

Oracle Private Cloud Appliance

Licensing Information User Manual for Release 3.0.2



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Contents

Preface

Audience	xxiv
Feedback	xxiv
Conventions	xxiv
Documentation Accessibility	xxv
Access to Oracle Support for Accessibility	xxv
Diversity and Inclusion	xxv

1 Introduction

2 Licensing Information

Restricted Use Licenses	2-1
Licensing Information for Included Oracle Products	2-1

3 Third-Party Notices and/or Licenses

Open Source or Other Separately Licensed Software	3-1
Software Licenses	3-10
amqp	3-10
amqp-client	3-11
Ansible	3-11
antlr4-python3-runtime	3-20
atop	3-21
attrs	3-46
Babel	3-46
Bouncy Castle Crypto API 1.68	3-47
Bouncy Castle Crypto API 1.70	3-47
cachetools	3-48
certifi	3-48
chardet	3-54
cliff	3-62

cmd2	3-66
colorama	3-66
Commons Codec	3-67
Commons Lang	3-71
Commons Logging	3-74
configparser	3-78
coredns	3-78
croniter	3-107
cryptography	3-108
cuttlefish	3-113
dnspython	3-117
Docker Registry	3-118
EclipseLink JPA	3-128
erlang-bbmustache	3-134
erlang-getopt	3-135
erlang-goldrush	3-135
erlang-lager	3-135
eventlet	3-144
Expat	3-150
external-attacher	3-150
external-provisioner	3-170
external-resizer	3-193
external-snapshotter	3-212
Fluentd	3-231
fluentd-kubernetes-daemonset	3-244
Google Auth Python Library	3-247
greenlet	3-251
unicorn	3-252
ha_cluster_exporter	3-255
HAproxy	3-276
Helm	3-292
hk2	3-399
HttpComponents HttpClient	3-424
HttpCore	3-434
idna	3-437
importlib-metadata	3-437
importlib_resources	3-445
iscsi-initiator-utils	3-448
isodate	3-452
jackson-annotations	3-452
jackson-core	3-456

jackson-databind	3-459
jackson-jaxrs-base	3-464
jackson-jaxrs-json-provider	3-470
jackson-module-jakarta-xmlbind-annotations	3-478
jackson-module-jaxb-annotations	3-481
Jakarta Activation API (JAF)	3-485
Jakarta Bean Validation API	3-486
Jakarta JSON Binding API (JSON-B)	3-490
Jakarta Json Processing API (JSON-P)	3-499
Jakarta Restful Web Services JAX-RS API	3-509
Jakarta XML Binding API (JAXB)	3-519
JavaScript Extension Toolkit (JET)	3-521
Javassist	3-535
jersey-client	3-551
jersey-common	3-573
jersey-container-servlet	3-580
jersey-container-servlet-core	3-599
jersey-ext-entity-filtering	3-617
jersey-hk2	3-631
jersey-media-json-jackson	3-663
jersey-server	3-686
Jinja2	3-709
JMESPath	3-710
joda-time	3-710
json-simple	3-713
kombu	3-717
Kubernetes Python Client	3-717
libvirt	3-721
libvirt-python	3-733
Loki	3-744
Loki Helm Chart	3-838
LXML	3-842
markupsafe	3-851
Mina SSHD	3-852
Mina SSHD-common	3-873
monotonic	3-879
mysqld_exporter	3-883
netaddr	3-896
netifaces	3-898
Node Exporter Full Grafana Dashboard	3-898
node-driver-registrar	3-900

oauthlib	3-912
OCI SDK for Python	3-913
Open Virtual Networking with Kubernetes	3-968
Open vSwitch	3-1020
OpenSSH	3-1041
OVN (Open Virtual Network)	3-1047
ovs (Python)	3-1058
ovsdbapp	3-1062
packaging	3-1066
passlib	3-1069
pbr	3-1071
Pexpect	3-1075
PLY	3-1076
podman	3-1076
PrettyTable	3-1094
Prometheus JVM Client	3-1094
Prometheus Python Client	3-1098
ptyprocess	3-1102
pyasn1	3-1102
pyasn1-modules	3-1103
PyJWT	3-1103
PyMySQL	3-1108
pyOpenSSL	3-1112
pyparsing	3-1115
pyperclip	3-1115
pyserial	3-1116
PySocks	3-1117
Python 3.6.8-18.0.5	3-1117
python 3.6.8-17	3-1132
Python 2.7.5-90.0.3	3-1148
Python-libs	3-1172
python-mimeparse	3-1177
python-rsa	3-1178
python-swiftclient	3-1184
python-xmlsec	3-1186
python3-saml	3-1187
Python_dateutil	3-1189
pytz	3-1190
pyyaml	3-1190
QEMU	3-1190
qemu-kvm	3-1212

RabbitMQ	3-1216
requests	3-1270
requests-oauthlib	3-1288
Ruby	3-1327
runc	3-1346
SAML Java Toolkit	3-1360
setuptools	3-1375
Simple Logging Facade for Java (SLF4J)	3-1376
simpleclient_pushgateway	3-1381
simpleclient_servlet_jakarta	3-1383
six	3-1387
sortedcontainers	3-1387
SQLAlchemy	3-1391
sshpas	3-1392
stax2-api	3-1398
stevedore	3-1399
Telegraf	3-1402
The Falcon Web Framework 2.0.0	3-1462
The Falcon Web Framework 3.0.1	3-1465
Tomcat Embedded	3-1468
transitions	3-1477
uln-yum-mirror	3-1478
urllib3 1.26.9	3-1492
urllib3 1.26.6	3-1493
uWSGI	3-1493
Vault	3-1499
vine	3-1835
wcwidth	3-1836
websocket-client-python	3-1836
Woodstox XML Processor	3-1837
XML Security for Java	3-1841
yum-utils	3-1846
ZFSSA CSI	3-1860
zipp	3-1885
Kubernetes Workload Monitoring Operator Licensing Information	3-1885
Oracle Linux	3-1885
Third-Party Notices and Licenses	3-1885
Open Source or Other Separately Licensed Software	3-1885
Software Licenses	3-1887
apiextensions-apiserver	3-1887
apimachinery	3-1960

cert-manager 0.13.1	3-1984
cert-manager 0.16.1	3-2068
client-go	3-2119
code-generator	3-2150
configmap-reload	3-2170
gabs	3-2186
go-sqlite3	3-2186
go-swagger	3-2187
golang.org/x/crypto	3-2257
gorilla/mux	3-2261
Grafana	3-2261
klog	3-2388
kube-rbac-proxy	3-2394
kube-state-metrics	3-2417
Kubernetes API	3-2422
NGINX Ingress Controller	3-2447
Node Exporter	3-2583
OCI SDK for Go	3-2603
Prometheus	3-2607
Prometheus AlertManager	3-2664
Prometheus Go client library	3-2703
Prometheus Pusher	3-2717
Prometheus Pushgateway	3-2723
prometheus-operator	3-2732
resty	3-2761
swagger-ui	3-2763
yaml 2.2.8	3-2791
yaml 1.2.0	3-2795
Data Transport Service Transport Client Licensing Information	3-2800
Open Source or Other Separately Licensed Software	3-2800
Software Licenses	3-2800
HttpComponents HttpClient 4.5.13	3-2800

4 Licensing for Third-Party Software in Oracle Hardware Management Pack

Oracle Hardware Management Pack Licensing Information	4-1
Oracle Technology Notices and Licenses	4-1
Oracle Java SE (JRE/JDK) Restricted Use License	4-1
Third Party Notices and Licenses	4-1
Open Source Software	4-1

5	Licensing for Third-Party Software in Server JRE (Java SE Runtime Environment)	
	Server JRE 8 Licensing Information	5-1
6	Licensing for Third-Party Software in Java Platform, Enterprise Edition API	
	Java EE 8 API	6-1
7	Licensing for Third-Party Software in Oracle Linux	
	Oracle Linux 7 Licensing Information	7-1
	Restricted Use Licenses	7-1
	Third-Party Notices and Licenses	7-2
	Oracle Linux 7 Images	7-2
	Oracle Linux 8 Licensing Information	7-2
	Restricted Use Licenses	7-2
	Third-Party Notices and Licenses	7-3
	Oracle Linux 8 Images	7-3
8	Licensing for Third-Party Software in Oracle Solaris	
	Oracle Solaris 11.4 Licensing Information	8-1
	Oracle Technology Notices and Licenses	8-1
	Third-Party Notices and/or Licenses for Oracle Solaris 11.4	8-1
	Open Source or Other Separately Licensed Software Included With Oracle Solaris 11.4	8-1
	Displaying Licenses for Oracle Solaris Packages	8-31
9	Licensing for Third-Party Software in Oracle JavaScript Extension Toolkit (JET)	
	Oracle JavaScript Extension Toolkit (JET) Licensing Information	9-1
10	Licensing for Third-Party Software in MySQL Cluster	
	MySQL Cluster Licensing Information	10-1
	Introduction	10-1
	Licensing Information	10-1

11 Licensing for Third-Party Software in Oracle Cloud Native Environment

Oracle Cloud Native Environment Licensing Information	11-1
Licensing Information	11-1
Licensing Information for Software Packages and Container Images	11-1
Software Licenses	11-22
coredns-1.7.0 - Apache-2.0	11-22
etcd-3.4.13 - Apache-2.0	11-25
flannel-0.13.0 - Apache-2.0	11-29
kubernetes-cni-plugins-0.9.1 - Apache-2.0	11-32
kubernetes-1.20.6 - Apache-2.0	11-36
conmon-2.0.26 - Apache-2.0	11-39
cri-o-1.20.2 - Apache-2.0	11-42
cri-tools-1.20.0 - Apache-2.0	11-46
kata-ksm-throttler-1.12.1 - Apache-2.0	11-49
kata-proxy-1.12.1 - Apache-2.0	11-53
kata-runtime-1.12.1 - Apache-2.0	11-56
kata-shim-1.12.1 - Apache-2.0	11-59
kata-image-1.12.1 - Apache-2.0	11-63
Third-Party Software Licenses	11-66
github.com/Azure/azure-sdk-for-go v40.6.0 - MIT License	11-66
github.com/Azure/go-autorest/autorest v0.10.2 - Apache License 2.0	11-67
github.com/Azure/go-autorest/autorest/azure/auth v0.4.2 - Apache License 2.0	11-67
github.com/DataDog/datadog-go v3.5.0 - MIT License	11-67
github.com/Shopify/sarama v1.21.0 - MIT License	11-68
github.com/apache/thrift v0.13.0 - Apache License 2.0	11-68
github.com/aws/aws-sdk-go v1.32.1 - Apache License 2.0	11-68
github.com/caddyserver/caddy v1.0.5 - Apache License 2.0	11-69
github.com/cenkalti/backoff/v4 v4.0.2 - MIT License	11-69
github.com/dnstap/golang-dnstap v0.2.0 - Apache-2.0	11-69
github.com/farsightsec/golang-framestream fa4b164d59b8 - Apache-2.0	11-70
github.com/golang/protobuf v1.4.2 - BSD 3-Clause "New" or "Revised" License	11-70
github.com/gophercloud/gophercloud v0.9.0 - Apache-2.0	11-71
github.com/grpc-ecosystem/grpc-opentracing 8e809c8a8645 - BSD-3-Clause	11-71
github.com/hashicorp/golang-lru v0.5.4 - Mozilla Public License 2.0	11-71
github.com/imdario/mergo v0.3.9 - BSD 3-Clause "New" or "Revised" License	11-72
github.com/infobloxopen/go-trees 2af4e13f9062 - Apache License 2.0	11-72
github.com/kr/pretty v0.2.0 - MIT License	11-73
github.com/matttproud/golang_protobuf_extensions v1.0.1 - Apache License 2.0	11-73

github.com/miekg/dns v1.1.29 - BSD-3-Clause	11-73
github.com/opentracing-contrib/go-observer a52f23424492 - Apache License 2.0	11-74
github.com/opentracing/opentracing-go v1.1.0 - Apache License 2.0	11-74
github.com/openzipkin-contrib/zipkin-go-opentracing v0.3.5 - Apache License 2.0	11-75
github.com/philhofer/fwd v1.0.0 - MIT License	11-75
github.com/prometheus/client_golang v1.6.0 - Apache License 2.0	11-75
github.com/prometheus/client_model v0.2.0 - Apache License 2.0	11-76
github.com/prometheus/common v0.10.0 - Apache License 2.0	11-76
github.com/prometheus/prometheus v2.5.0 - Apache License 2.0	11-76
github.com/tinylib/msgp v1.1.2 - MIT	11-76
go.etcd.io/etcd 221f0cc107cb - Apache License 2.0	11-77
go.uber.org/zap v1.14.1 - MIT License	11-77
golang.org/x/crypto 0ec3e9974c59 - BSD-3-Clause	11-78
golang.org/x/sys 1957bb5e6d1f - BSD-3-Clause	11-78
google.golang.org/api v0.26.0 - BSD 3-Clause "New" or "Revised" License	11-79
google.golang.org/grpc v1.29.1 - Apache License 2.0	11-79
gopkg.in/DataDog/dd-trace-go.v1 v1.24.1 - Apache-2.0	11-79
k8s.io/api v0.18.3 - Apache License 2.0	11-80
k8s.io/apimachinery v0.18.3 - Apache License 2.0	11-80
k8s.io/client-go v0.18.3 - Apache License 2.0	11-80
k8s.io/klog v1.0.0 - Apache License 2.0	11-81
github.com/bgentry/speakeasy v0.1.0 - MIT	11-81
github.com/cockroachdb/datadriven 80d97fb3cbaa - Apache License 2.0	11-81
github.com/coreos/go-semver v0.2.0 - Apache License 2.0	11-82
github.com/coreos/go-systemd 39ca1b05acc7 - Apache License 2.0	11-82
github.com/coreos/pkg 3ac0863d7acf - Apache License 2.0	11-82
github.com/creack/pty v1.1.7 - MIT License	11-83
github.com/dgrijalva/jwt-go v3.2.0 - MIT License	11-83
github.com/dustin/go-humanize bb3d318650d4 - MIT	11-84
github.com/fatih/color v1.7.0 - MIT License	11-84
github.com/gogo/protobuf v1.2.1 - BSD-3-Clause	11-84
github.com/golang/groupcache 02826c3e7903 - Apache License 2.0	11-85
github.com/golang/protobuf v1.3.2 - BSD 3-Clause "New" or "Revised" License	11-85
github.com/google/btree v1.0.0 - Apache License 2.0	11-86
github.com/google/uuid v1.0.0 - BSD 3-Clause "New" or "Revised" License	11-86
github.com/gorilla/websocket 4201258b820c - BSD 2-Clause "Simplified" License	11-87
github.com/grpc-ecosystem/go-grpc-middleware f849b5445de4 - Apache License 2.0	11-87
github.com/grpc-ecosystem/go-grpc-prometheus v1.2.0 - Apache License 2.0	11-87
github.com/grpc-ecosystem/grpc-gateway v1.9.5 - BSD 3-Clause "New" or "Revised" License	11-88
github.com/inconshreveable/mousetrap v1.0.0 - Apache-2.0	11-88

github.com/jonboulle/clockwork v0.1.0 - Apache License 2.0	11-89
github.com/json-iterator/go v1.1.7 - MIT License	11-89
github.com/matttn/go-colorable v0.0.9 - MIT License	11-89
github.com/matttn/go-isatty v0.0.4 - MIT License	11-90
github.com/matttn/go-runewidth v0.0.2 - MIT License	11-90
github.com/modern-go/reflect2 v1.0.1 - Apache License 2.0	11-91
github.com/olekukonko/tablewriter a0225b3f23b5 - MIT License	11-91
github.com/prometheus/client_golang v1.0.0 - Apache License 2.0	11-91
github.com/prometheus/client_model 14fe0d1b01d4 - Apache License 2.0	11-92
github.com/sirupsen/logrus v1.4.2 - MIT License	11-92
github.com/soheilhy/cmux v0.1.4 - Apache License 2.0	11-92
github.com/spf13/cobra v0.0.3 - Apache License 2.0	11-93
github.com/spf13/pflag v1.0.1 - BSD 3-Clause "New" or "Revised" License	11-93
github.com/tmc/grpc-websocket-proxy 89b8d40f7ca8 - MIT License	11-94
github.com/urfave/cli v1.20.0 - MIT License	11-94
github.com/xiang90/probing 43a291ad63a2 - MIT License	11-94
go.etcd.io/bbolt v1.3.3 - MIT License	11-95
go.uber.org/atomic v1.3.2 - MIT License	11-95
go.uber.org/multierr v1.1.0 - MIT License	11-96
go.uber.org/zap v1.10.0 - MIT License	11-96
golang.org/x/crypto c2843e01d9a2 - BSD-3-Clause	11-96
golang.org/x/lint d0100b6bd8b3 - BSD 3-Clause "New" or "Revised" License	11-97
golang.org/x/net 74dc4d7220e7 - BSD-3-Clause	11-97
golang.org/x/sys c7b8b68b1456 - BSD-3-Clause	11-98
golang.org/x/text v0.3.3 - BSD-3-Clause	11-99
golang.org/x/time fbb02b2291d2 - BSD-3-Clause	11-99
golang.org/x/tools 2c0ae7006135 - BSD-3-Clause	11-100
google.golang.org/grpc v1.26.0 - Apache License 2.0	11-100
gopkg.in/chegaaa/pb.v1 v1.0.25 - BSD 3-Clause "New" or "Revised" License	11-100
gopkg.in/yaml.v2 v2.2.2 - Apache-2.0	11-101
honnef.co/go/tools ea95bdfd59fc - MIT	11-101
sigs.k8s.io/yaml v1.1.0 - MIT & BSD-3-Clause	11-102
cloud.google.com/go 7c205da84d8d - Apache License 2.0	11-102
github.com/Microsoft/hcsshim v0.8.6 - MIT License	11-103
github.com/PuerkitoBio/purell v1.0.0 - BSD 3-Clause "New" or "Revised" License	11-103
github.com/PuerkitoBio/urlesc 5bd2802263f2 - BSD 3-Clause "New" or "Revised" License	11-104
github.com/aws/aws-sdk-go v1.12.54 - Apache License 2.0	11-104
github.com/bronzeman/goStrongswanVici 4d72634a2f11 - MIT License	11-105
github.com/containernetworking/plugins v0.8.6 - Apache License 2.0	11-105
github.com/coreos/etcd v3.1.11 - Apache License 2.0	11-105

github.com/coreos/go-iptables v0.4.5 - Apache License 2.0	11-106
github.com/denverdino/aliyungo f6cab0c35083 - Apache License 2.0	11-106
github.com/docker/distribution v2.4.0 - Apache License 2.0	11-106
github.com/emicklei/go-restful 09691a3b6378 - MIT License	11-106
github.com/ghodss/yaml 73d445a93680 - MIT & BSD-3-Clause	11-107
github.com/go-ini/ini v1.28.1 - Apache License 2.0	11-108
github.com/go-openapi/jsonpointer 46af16f9f7b1 - Apache License 2.0	11-108
github.com/go-openapi/jsonreference 13c6e3589ad9 - Apache License 2.0	11-108
github.com/go-openapi/spec 6aced65f8501 - Apache-2.0	11-109
github.com/go-openapi/swag 1d0bd113de87 - Apache License 2.0	11-109
github.com/gogo/protobuf 909568be09de - BSD-3-Clause	11-109
github.com/golang/glog 44145f04b68c - Apache License 2.0	11-110
github.com/google/gofuzz 44d81051d367 - Apache License 2.0	11-110
github.com/howeyc/gopass 3ca23474a7c7 - ISC License	11-110
github.com/imdario/mergo 6633656539c1 - BSD 3-Clause "New" or "Revised" License	11-111
github.com/jmespath/go-jmespath bd40a432e4c7 - Apache-2.0	11-111
github.com/joho/godotenv 726cc8b906e3 - MIT License	11-112
github.com/juju/errors c7d06af17c68 - LGPL-3.0-only	11-112
github.com/juju/ratelimit 77ed1c8a0121 - LGPL-3.0-only	11-115
github.com/juju/testing 4c23f9c453cd - LGPL-3.0-only	11-117
github.com/mailru/easyjson d5b7844b561a - MIT License	11-120
github.com/niemeyer/pretty a10e7caefd8e - MIT License	11-120
github.com/smartystreets/goconvey v1.6.4 - MIT	11-121
github.com/spf13/pflag 08b1a584251b - BSD 3-Clause "New" or "Revised" License	11-121
github.com/stevvoee/resumable 22b14a53ba50 - BSD 3-Clause "New" or "Revised" License	11-122
github.com/stretchr/testify v1.6.1 - MIT License	11-122
github.com/ugorji/go ded73eae5db7 - MIT License	11-123
github.com/vishvananda/netlink 023a6dafdcdf - Apache License 2.0	11-123
github.com/vishvananda/netns 13995c7128cc - Apache License 2.0	11-123
golang.org/x/net d8887717615a - BSD-3-Clause	11-124
golang.org/x/oauth2 5432cc9688e6 - BSD 3-Clause "New" or "Revised" License	11-124
google.golang.org/api e6586c9293b9 - BSD 3-Clause "New" or "Revised" License	11-125
google.golang.org/appengine 4f7eeb5305a4 - Apache License 2.0	11-125
gopkg.in/check.v1 8fa46927fb4f - BSD-2-Clause	11-126
gopkg.in/inf.v0 v0.9.0 - BSD-3-Clause	11-126
gopkg.in/yaml.v1 9f9df34309c0 - Apache-2.0	11-127
k8s.io/apimachinery 9603df80256c - Apache License 2.0	11-127
k8s.io/client-go a95edf803628 - Apache License 2.0	11-127
github.com/Microsoft/go-winio v0.4.11 - MIT License	11-128
github.com/alexflint/go-filemutex 72bdc8eae2ae - MIT License	11-128

github.com/buger/jsonparser f4dd9f5a6b44 - MIT License	11-128
github.com/containernetworking/cni v0.8.1 - Apache License 2.0	11-129
github.com/coreos/go-iptables v0.5.0 - Apache License 2.0	11-129
github.com/d2g/dhcp4 a1d1b6c41b1c - BSD 3-Clause "New" or "Revised" License	11-129
github.com/d2g/dhcp4client v1.0.0 - Mozilla Public License 2.0	11-130
github.com/d2g/dhcp4server 7d4a0a7f59a5 - Mozilla Public License 2.0	11-130
github.com/d2g/hardwareaddr e7d9fbe030e4 - Mozilla Public License 2.0	11-131
github.com/godbus/dbus 885f9cc04c9c - BSD 2-Clause "Simplified" License	11-131
github.com/j-keck/arping 2cf9dc699c56 - MIT License	11-131
github.com/mattn/go-shellwords v1.0.3 - MIT License	11-132
github.com/onsi/ginkgo v1.12.1 - MIT License	11-132
github.com/onsi/gomega v1.10.3 - MIT License	11-133
github.com/safchain/ethtool 42ed695e3de8 - Apache License 2.0	11-133
github.com/sirupsen/logrus v1.0.6 - MIT License	11-133
github.com/stretchr/testify v1.3.0 - MIT License	11-134
github.com/vishvananda/netlink d40f9887b852 - Apache License 2.0	11-134
golang.org/x/sys d9b008d0a637 - BSD-3-Clause	11-135
gopkg.in/airbrake/gobrake.v2 v2.0.9 - MIT License	11-135
gopkg.in/gemnasium/logrus-airbrake-hook.v2 v2.1.2 - MIT License	11-136
bitbucket.org/bertimus9/systemstat 0eeff89b0690 - MIT License	11-136
github.com/Azure/azure-sdk-for-go v43.0.0 - MIT License	11-136
github.com/Azure/go-autorest/autorest v0.11.1 - Apache License 2.0	11-137
github.com/Azure/go-autorest/autorest/adal v0.9.5 - Apache License 2.0	11-137
github.com/Azure/go-autorest/autorest/to v0.2.0 - Apache License 2.0	11-137
github.com/GoogleCloudPlatform/k8s-cloud-provider 7901bc822317 - Apache License 2.0	11-138
github.com/JeffAshton/win_pdh 76bb4ee9f0ab - BSD-3-Clause	11-138
github.com/Microsoft/go-winio v0.4.15 - MIT License	11-139
github.com/Microsoft/hcsshim 5eafd1556990 - MIT License	11-139
github.com/PuerkitoBio/purell v1.1.1 - BSD 3-Clause "New" or "Revised" License	11-139
github.com/armon/circbuf bbbad097214e - MIT License	11-140
github.com/auth0/go-jwt-middleware 5493cabe49f7 - MIT License	11-140
github.com/aws/aws-sdk-go v1.35.24 - Apache License 2.0	11-141
github.com/blang/semver v3.5.1 - MIT License	11-141
github.com/boltdb/bolt v1.3.1 - MIT License	11-141
github.com/caddyserver/caddy v1.0.3 - Apache License 2.0	11-142
github.com/clusterhq/flocker-go 2b8b7259d313 - Apache License 2.0	11-142
github.com/codegangsta/negroni v1.0.0 - MIT License	11-142
github.com/container-storage-interface/spec v1.2.0 - Apache License 2.0	11-143
github.com/containernetworking/cni v0.8.0 - Apache License 2.0	11-143
github.com/coredns/corefile-migration v1.0.10 - Apache License 2.0	11-144

github.com/coreos/go-oidc v2.1.0 - Apache License 2.0	11-144
github.com/coreos/go-systemd 95778dfbb74e - Apache License 2.0	11-144
github.com/coreos/pkg 399ea9e2e55f - Apache License 2.0	11-144
github.com/cpuguy83/go-md2man/v2 v2.0.0 - MIT License	11-145
github.com/davecgh/go-spew v1.1.1 - ISC License	11-145
github.com/docker/distribution v2.7.1 - Apache License 2.0	11-146
github.com/docker/docker bd33bbf0497b - Apache License 2.0	11-146
github.com/docker/go-connections v0.4.0 - Apache License 2.0	11-146
github.com/docker/go-units v0.4.0 - Apache License 2.0	11-146
github.com/elazarl/goproxy 947c36da3153 - BSD 3-Clause "New" or "Revised" License	11-147
github.com/emicklei/go-restful v2.9.5 - MIT License	11-147
github.com/evanphx/json-patch v4.9.0 - BSD 3-Clause "New" or "Revised" License	11-148
github.com/fsnotify/fsnotify v1.4.9 - BSD 3-Clause "New" or "Revised" License	11-148
github.com/go-bindata/go-bindata v3.1.1 - CC0-1.0	11-149
github.com/go-openapi/loads v0.19.4 - Apache License 2.0	11-149
github.com/go-openapi/spec v0.19.3 - Apache-2.0	11-149
github.com/go-openapi/strfmt v0.19.3 - Apache License 2.0	11-150
github.com/go-openapi/validate v0.19.5 - Apache License 2.0	11-150
github.com/go-ozzo/ozzo-validation v3.5.0 - MIT License	11-150
github.com/godbus/dbus/v5 v5.0.3 - BSD 2-Clause "Simplified" License	11-151
github.com/gogo/protobuf v1.3.2 - BSD-3-Clause	11-151
github.com/golang/groupcache 8c9f03a8e57e - Apache License 2.0	11-152
github.com/golang/mock v1.4.1 - Apache License 2.0	11-152
github.com/google/cadvisor v0.38.8 - Apache-2.0	11-152
github.com/google/go-cmp v0.5.2 - BSD 3-Clause "New" or "Revised" License	11-153
github.com/google/gofuzz v1.1.0 - Apache License 2.0	11-153
github.com/google/uuid v1.1.2 - BSD 3-Clause "New" or "Revised" License	11-154
github.com/googleapis/gnostic v0.4.1 - Apache License 2.0	11-154
github.com/gorilla/context v1.1.1 - BSD 3-Clause "New" or "Revised" License	11-154
github.com/hashicorp/golang-lru v0.5.1 - Mozilla Public License 2.0	11-155
github.com/heketi/heketi c2e2a4ab7ab9 - LGPL-3.0-or-later & Apache-2.0 & GPL-2.0-only	11-155
github.com/heketi/tests f3775cbcefd6 - Apache License 2.0	11-156
github.com/ishidawataru/sctp 7c296d48a2b5 - Apache-2.0	11-156
github.com/json-iterator/go v1.1.10 - MIT License	11-156
github.com/libopenstorage/openstorage v1.0.0 - Apache License 2.0	11-157
github.com/lithammer/dedent v1.1.0 - MIT License	11-157
github.com/lpabon/godbc v0.1.1 - Apache License 2.0	11-157
github.com/miekg/dns v1.1.4 - BSD-3-Clause	11-158
github.com/moby/ipvs v1.0.1 - Apache License 2.0	11-158
github.com/mohae/deepcopy 491d3605edfb - MIT License	11-159

github.com/mrunalp/fileutils abd8a0e76976 - Apache License 2.0	11-159
github.com/munnerz/goautoneg a7dc8b61c822 - BSD 3-Clause "New" or "Revised" License	11-159
github.com/mvdan/xurls v1.1.0 - BSD 3-Clause "New" or "Revised" License	11-160
github.com/onsi/ginkgo v1.11.0 - MIT License	11-160
github.com/onsi/gomega v1.7.0 - MIT License	11-161
github.com/opencontainers/go-digest v1.0.0 - Apache-2.0	11-161
github.com/opencontainers/runc v1.0.0-rc92 - Apache License 2.0	11-162
github.com/opencontainers/selinux v1.6.0 - Apache License 2.0	11-162
github.com/pkg/errors v0.9.1 - BSD 2-Clause "Simplified" License	11-162
github.com/pmezard/go-difflib v1.0.0 - BSD-3-Clause	11-163
github.com/prometheus/client_golang v1.7.1 - Apache License 2.0	11-163
github.com/quobyte/api v0.1.8 - BSD 3-Clause "New" or "Revised" License	11-163
github.com/robfig/cron v1.1.0 - MIT License	11-164
github.com/spf13/afero v1.2.2 - Apache License 2.0	11-164
github.com/spf13/cobra v1.1.1 - Apache License 2.0	11-165
github.com/spf13/jwalterweatherman v1.1.0 - MIT License	11-165
github.com/spf13/pflag v1.0.5 - BSD 3-Clause "New" or "Revised" License	11-165
github.com/spf13/viper v1.7.0 - MIT License	11-166
github.com/storageos/go-api v2.2.0 - MIT & BSD-2-Clause	11-166
github.com/thecodeteam/goscaleio v0.1.0 - Apache License 2.0	11-167
github.com/urfave/negroni v1.0.0 - MIT License	11-167
github.com/vishvananda/netlink v1.1.0 - Apache License 2.0	11-168
github.com/vmware/govmomi v0.20.3 - Apache License 2.0	11-168
go.etcd.io/etcd dd1b699fc489 - Apache License 2.0	11-168
golang.org/x/crypto 7f63de1d35b0 - BSD-3-Clause	11-169
golang.org/x/net 69a78807bb2b - BSD-3-Clause	11-169
golang.org/x/oauth2 bf48bf16ab8d - BSD 3-Clause "New" or "Revised" License	11-170
golang.org/x/sys 5cba982894dd - BSD-3-Clause	11-170
golang.org/x/time 3af7569d3a1e - BSD-3-Clause	11-171
golang.org/x/tools 113979e3529a - BSD-3-Clause	11-171
gonum.org/v1/gonum v0.6.2 - BSD 3-Clause "New" or "Revised" License	11-172
gonum.org/v1/netlib 76723241ea4e - BSD 3-Clause "New" or "Revised" License	11-172
google.golang.org/api v0.20.0 - BSD 3-Clause "New" or "Revised" License	11-173
google.golang.org/appengine v1.6.5 - Apache License 2.0	11-173
google.golang.org/grpc v1.27.1 - Apache License 2.0	11-174
gopkg.in/gcfg.v1 v1.2.0 - BSD-3-Clause	11-174
gopkg.in/square/go-jose.v2 v2.2.2 - Apache License 2.0	11-175
gopkg.in/yaml.v2 v2.2.8 - Apache-2.0	11-175
k8s.io/api v0.0.0 - Apache License 2.0	11-175
k8s.io/apiextensions-apiserver v0.0.0 - Apache License 2.0	11-176

k8s.io/apimachinery v0.0.0 - Apache License 2.0	11-176
k8s.io/apiserver v0.0.0 - Apache License 2.0	11-176
k8s.io/cli-runtime v0.0.0 - Apache License 2.0	11-176
k8s.io/client-go v0.0.0 - Apache License 2.0	11-177
k8s.io/cloud-provider v0.0.0 - Apache License 2.0	11-177
k8s.io/cluster-bootstrap v0.0.0 - Apache License 2.0	11-177
k8s.io/code-generator v0.0.0 - Apache License 2.0	11-178
k8s.io/component-base v0.0.0 - Apache License 2.0	11-178
k8s.io/component-helpers v0.0.0 - Apache License 2.0	11-178
k8s.io/controller-manager v0.0.0 - Apache License 2.0	11-179
k8s.io/cri-api v0.0.0 - Apache License 2.0	11-179
k8s.io/csi-translation-lib v0.0.0 - Apache License 2.0	11-179
k8s.io/gengo 83324d819ded - Apache License 2.0	11-179
k8s.io/heapster v1.2.0-beta.1 - Apache License 2.0	11-180
k8s.io/klog/v2 v2.4.0 - Apache License 2.0	11-180
k8s.io/kube-aggregator v0.0.0 - Apache License 2.0	11-180
k8s.io/kube-controller-manager v0.0.0 - Apache License 2.0	11-181
k8s.io/kube-openapi d219536bb9fd - Apache License 2.0	11-181
k8s.io/kube-proxy v0.0.0 - Apache License 2.0	11-181
k8s.io/kube-scheduler v0.0.0 - Apache License 2.0	11-182
k8s.io/kubectl v0.0.0 - Apache License 2.0	11-182
k8s.io/kubelet v0.0.0 - Apache License 2.0	11-182
k8s.io/legacy-cloud-providers v0.0.0 - Apache License 2.0	11-183
k8s.io/metrics v0.0.0 - Apache License 2.0	11-183
k8s.io/mount-utils v0.0.0 - Apache License 2.0	11-183
k8s.io/sample-apiserver v0.0.0 - Apache License 2.0	11-183
k8s.io/system-validators v1.2.0 - Apache License 2.0	11-184
k8s.io/utils 67b214c5f920 - Apache License 2.0	11-184
sigs.k8s.io/yaml v1.2.0 - MIT & BSD-3-Clause	11-184
glibc-static 2.17 - LGPLv2+ and LGPLv2+ with exceptions and GPLv2	11-185
glibc-devel 2.56.1 - LGPLv2+	11-193
glibc-devel 2.17 - LGPLv2+ and LGPLv2+ with exceptions and GPLv2	11-201
pkgconfig 0.27.1 - GPLv2+	11-209
github.com/BurntSushi/toml v0.3.1 - MIT License	11-215
github.com/Microsoft/go-winio v0.4.16 - MIT License	11-215
github.com/containerd/cgroups 4cbc285b3327 - Apache License 2.0	11-216
github.com/containerd/containerd v1.4.1 - Apache License 2.0	11-216
github.com/containerd/ttrpc v1.0.2 - Apache License 2.0	11-216
github.com/containerd/networking/plugins v0.8.7 - Apache License 2.0	11-217
github.com/containerd/buildah v1.15.2 - Apache License 2.0	11-217
github.com/containerd/common v0.21.0 - Apache License 2.0	11-217

github.com/containers/conmon v2.0.20 - Apache License 2.0	11-217
github.com/containers/image/v5 v5.10.1 - Apache License 2.0	11-218
github.com/containers/libpod/v2 v2.0.6 - Apache License 2.0	11-218
github.com/containers/ocicrypt v1.0.3 - Apache License 2.0	11-218
github.com/containers/storage v1.24.5 - Apache License 2.0	11-219
github.com/coreos/go-systemd/v22 v22.1.0 - Apache License 2.0	11-219
github.com/cpuguy83/go-md2man v1.0.10 - MIT License	11-219
github.com/creack/pty v1.1.11 - MIT License	11-220
github.com/cri-o/ocicni 513ef787b8c9 - Apache License 2.0	11-220
github.com/cyphar/filepath-securejoin v0.2.2 - BSD 3-Clause "New" or "Revised" License	11-221
github.com/go-zoo/bone v1.3.0 - MIT License	11-221
github.com/golang/mock v1.4.4 - Apache License 2.0	11-222
github.com/google/renamio v0.1.0 - Apache License 2.0	11-222
github.com/google/uuid v1.1.4 - BSD 3-Clause "New" or "Revised" License	11-222
github.com/grpc-ecosystem/go-grpc-middleware v1.2.0 - Apache License 2.0	11-223
github.com/hashicorp/errwrap v1.1.0 - Mozilla Public License 2.0	11-223
github.com/hpcloud/tail v1.0.0 - MIT	11-223
github.com/onsi/ginkgo v1.14.1 - MIT License	11-224
github.com/opencontainers/image-spec 79b036d80240 - Apache License 2.0	11-224
github.com/opencontainers/runtime-spec 4d89ac9fbff6 - Apache License 2.0	11-225
github.com/opencontainers/runtime-tools 07406c5828aa - Apache License 2.0	11-225
github.com/opencontainers/selinux v1.8.0 - Apache License 2.0	11-225
github.com/pquerna/ffjson aa0246cd15f7 - Apache License 2.0	11-225
github.com/psampaz/go-mod-outdated v0.7.0 - MIT License	11-226
github.com/sirupsen/logrus v1.7.0 - MIT License	11-226
github.com/stretchr/testify v1.7.0 - MIT License	11-227
github.com/syndtr/gocapability d98352740cb2 - BSD 2-Clause "Simplified" License	11-227
github.com/urfave/cli/v2 v2.2.0 - MIT License	11-228
golang.org/x/net 6772e930b67b - BSD-3-Clause	11-228
golang.org/x/sync 67f06af15bc9 - BSD-3-Clause	11-229
golang.org/x/sys 16f7687f5001 - BSD-3-Clause	11-229
google.golang.org/grpc v1.33.2 - Apache License 2.0	11-230
k8s.io/api v0.19.2 - Apache License 2.0	11-230
k8s.io/apimachinery v0.19.2 - Apache License 2.0	11-230
k8s.io/client-go v0.18.8 - Apache License 2.0	11-231
k8s.io/kubernetes v1.19.2 - Apache License 2.0	11-231
k8s.io/release v0.6.0 - Apache License 2.0	11-231
mvdan.cc/sh/v3 v3.2.0 - BSD 3-Clause "New" or "Revised" License	11-231
github.com/docker/docker c7109494fe65 - Apache License 2.0	11-232
github.com/golang/glog 23def4e6c14b - Apache License 2.0	11-232

github.com/golang/protobuf v1.4.3 - BSD 3-Clause "New" or "Revised" License	11-233
github.com/onsi/ginkgo v1.14.2 - MIT License	11-233
github.com/pborman/uuid v1.2.1 - BSD 3-Clause "New" or "Revised" License	11-234
github.com/urfave/cli/v2 v2.3.0 - MIT License	11-234
gopkg.in/yaml.v3 eeeca48fe776 - Apache-2.0	11-235
k8s.io/client-go v11.0.0 - Apache License 2.0	11-235
k8s.io/kubernetes v0.0.0 - Apache License 2.0	11-235
github.com/davecgh/go-spew v1.1.0 - ISC License	11-235
github.com/fsnotify/fsnotify 4da3e2cfbabc9f751898f250b49f2439785783a1 - BSD 3-Clause "New" or "Revised" License	11-236
github.com/golang/protobuf 1e59b77b52bf8e4b449a57e6f79f21226d571845 - BSD 3-Clause "New" or "Revised" License	11-236
github.com/sirupsen/logrus v1.0.3 - MIT License	11-237
github.com/stretchr/testify 2aa2c176b9dab406a6970f6a55f513e8a8c8b18f - MIT License	11-237
golang.org/x/crypto 9f005a07e0d31d45e6656d241bb5c0f2efd4bc94 - BSD-3-Clause	11-238
golang.org/x/net a337091b0525af65de94df2eb7e98bd9962dcbe2 - BSD-3-Clause	11-238
golang.org/x/sys bf42f188b9bc6f2cf5b8ee5a912ef1aedd0eba4c - BSD-3-Clause	11-239
golang.org/x/text 88f656faf3f37f690df1a32515b479415e1a6769 - BSD-3-Clause	11-239
google.golang.org/genproto 11c7f9e547da6db876260ce49ea7536985904c9b - Apache License 2.0	11-240
google.golang.org/grpc v1.7.3 - Apache License 2.0	11-240
github.com/hashicorp/yamux f5742cb6 - Mozilla Public License 2.0	11-241
github.com/sirupsen/logrus v1.0.4 - MIT License	11-241
github.com/stretchr/testify v1.2.1 - MIT License	11-241
golang.org/x/crypto 13931e22f9e72ea58bb73048bc752b48c6d4d4ac - BSD-3-Clause	11-242
golang.org/x/sys 810d7000345868fc619eb81f46307107118f4ae1 - BSD-3-Clause	11-242
github.com/Microsoft/go-winio v0.4.12 - MIT License	11-243
github.com/PuerkitoBio/urlesc de5bf2ad457846296e2031421a34e2568e304e35 - BSD 3-Clause "New" or "Revised" License	11-243
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github.com/blang/semver v3.6.1 - MIT License	11-244
github.com/cilium/ebpf c8f8abaa9ece88e9be5b888e23e130e726d9afa4 - MIT License	11-245
github.com/codahale/hdrhistogram 3a0bb77429bd3a61596f5e8a3172445844342120 - MIT License	11-245
github.com/containerd/cgroups c4b9ac5c7601384c965b9646fc515884e091ebb9 - Apache License 2.0	11-246
github.com/containerd/console 0650fd9eeb50bab4fc99dceb9f2e14cf58f36e7f - Apache License 2.0	11-246

github.com/containerd/containerd f05672357f56f26751a521175c5a96fc21fa8603 - Apache License 2.0	11-246
github.com/containerd/cni 4dd6735020f5596dd41738f8c4f5cb07fa804c5e - Apache License 2.0	11-247
github.com/containerd/fifo a9fb20d87448d386e6d50b1f2e1fa70dcf0de43c - Apache License 2.0	11-247
github.com/containerd/go-runc 7d11b49dc0769f6dbb0d1b19f3d48524d1bad9ad - Apache License 2.0	11-247
github.com/containerd/ttrpc 92c8520ef9f86600c650dd540266a007bf03670f - Apache License 2.0	11-248
github.com/containerd/typeurl 2a93cfde8c20b23de8eb84a5adbc234ddf7a9e8d - Apache License 2.0	11-248
github.com/containerd/networking/cni v0.7.1 - Apache License 2.0	11-248
github.com/containerd/networking/plugins 485be65581341430f9106a194a98f0f2412245fb - Apache License 2.0	11-249
github.com/coreos/go-systemd 9002847aa1425fb6ac49077c0a630b3b67e0fbfd - Apache License 2.0	11-249
github.com/cri-o/cri-o 3394b3b2d6af0e41d185bb695c6378be5dd4d61d - Apache License 2.0	11-249
github.com/dlespiau/covertool b0c4c6d0583aae4e3b5d12b6ec47767670548cc4 - Apache License 2.0	11-250
github.com/docker/go-units v0.3.3 - Apache License 2.0	11-250
github.com/globalsign/mgo eeefdec41b842af6dc652aaea4026e8403e62df - BSD-2-Clause	11-250
github.com/go-ini/ini 20b96f641a5ea98f2f8619ff4f3e061cff4833bd - Apache License 2.0	11-251
github.com/go-logr/logr v0.2.0 - Apache License 2.0	11-251
github.com/go-openapi/analysis v0.18.0 - Apache License 2.0	11-251
github.com/go-openapi/errors v0.18.0 - Apache License 2.0	11-252
github.com/go-openapi/jsonpointer v0.18.0 - Apache License 2.0	11-252
github.com/go-openapi/jsonreference v0.18.0 - Apache License 2.0	11-252
github.com/go-openapi/loads v0.18.0 - Apache License 2.0	11-253
github.com/go-openapi/runtime v0.18.0 - Apache License 2.0	11-253
github.com/go-openapi/spec v0.18.0 - Apache-2.0	11-253
github.com/go-openapi/strfmt v0.18.0 - Apache License 2.0	11-254
github.com/go-openapi/swag v0.18.0 - Apache License 2.0	11-254
github.com/go-openapi/validate v0.18.0 - Apache License 2.0	11-254
github.com/godbus/dbus v5.0.1 - BSD 2-Clause "Simplified" License	11-254
github.com/gogo/protobuf 4cbf7e384e768b4e01799441fdf2a706a5635ae7 - BSD-3-Clause	11-255
github.com/golang/protobuf v1.3.0 - BSD 3-Clause "New" or "Revised" License	11-256
github.com/grpc-ecosystem/grpc-opentracing 8e809c8a86450a29b90dcc9efbf062d0fe6d9746 - BSD-3-Clause	11-256
github.com/hashicorp/errwrap v1.0.0 - Mozilla Public License 2.0	11-257
github.com/hashicorp/go-multierror v1.0.0 - Mozilla Public License 2.0	11-257

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github.com/kata-containers/govmm 7d320e8f5dcad260c1723bda3bff21539750d51f - Apache License 2.0	11-258
github.com/konsorten/go-windows-terminal-sequences v1.0.2 - MIT License	11-258
github.com/mailru/easyjson 6243d8e04c3f819e79757e8bc3faa15c3cb27003 - MIT License	11-259
github.com/mdlayher/vsock 7b7533a7ca4eba7dd23dab2de70e25ca6eecf7e2 - MIT License	11-259
github.com/mitchellh/mapstructure d0303fe809921458f417bcf828397a65db30a7e4 - MIT License	11-260
github.com/opencontainers/go-digest v1.0.0-rc1 - Apache-2.0	11-260
github.com/opencontainers/runc 2b52db75279ca687e18156de86d845876e9ef35d - Apache License 2.0	11-260
github.com/opencontainers/runtime-spec a1b50f621a48ad13f8f696a162f684a241307db0 - Apache License 2.0	11-261
github.com/opencontainers/selinux v1.4.0 - Apache License 2.0	11-261
github.com/opentracing/opentracing-go v1.0.2 - Apache License 2.0	11-261
github.com/pkg/errors v0.8.1 - BSD 2-Clause "Simplified" License	11-262
github.com/prometheus/procfs af7bedc223fba51343f25a6fa7aba84355d0357a - Apache License 2.0	11-262
github.com/safchain/ethtool 79559b488d8848b53a8e34c330140c3fc37ee246 - Apache License 2.0	11-262
github.com/seccomp/libseccomp-golang v0.9.0 - BSD 2-Clause "Simplified" License	11-263
github.com/stretchr/testify 890a5c3458b43e6104ff5da8dfa139d013d77544 - MIT License	11-263
github.com/uber/jaeger-client-go v2.15.0 - Apache License 2.0	11-264
github.com/uber/jaeger-lib v1.5.0 - Apache License 2.0	11-264
github.com/urfave/cli ac249472b7de27a9e8990819566d9be95ab5b816 - MIT License	11-264
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github.com/vishvananda/netns 86bef332bfc3b59b7624a600bd53009ce91a9829 - Apache License 2.0	11-265
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k8s.io/kubernetes v1.18.4 - Apache License 2.0	11-269
github.com/Azure/go-ansiterm d6e3b3328b783f23731bc4d058875b0371ff8109 - MIT License	11-269
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golang 1.12.17 - BSD	11-273
yq 2.4.0 - MIT	11-273
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e2fsprogs 1.42.9 - GPLv2	11-280
qemu-img 1.5.3 - GPLv2 and GPLv2+ and CC-BY	11-285
parted 3.1 - GPLv3+	11-286

12 Licensing for Third-Party Software in Oracle Server X9-2

Oracle Server X9-2 Licensing Information	12-1
Oracle Technology Notices and Licenses	12-1
Third Party Notices and Licenses	12-1
Open Source or Other Separately Licensed Software	12-1
Software Licenses	12-2

13 Licensing for Third-Party Software in Oracle ZFS Storage Appliance ZS9-2

Oracle ZFS Storage Appliance ZS9-2 Licensing Information	13-1
Licensing Information User Manual Oracle ZFS Storage ZS9-2, Release OS8.8.x	13-1
Oracle Technology Notices and Licenses	13-1
Third Party Notices and/or Licenses	13-1

14 Licensing for Third-Party Software in Oracle Cloud Infrastructure

Oracle Cloud Infrastructure Services Licensing Information	14-1
Open Source or Other Separately Licensed Software	14-1
Software Licenses	14-1

Preface

This publication is part of the customer documentation set for Oracle Private Cloud Appliance Release 3.0.2. Note that the documentation follows the release numbering scheme of the appliance software, not the hardware on which it is installed. All Oracle Private Cloud Appliance product documentation is available at <https://docs.oracle.com/en/engineered-systems/private-cloud-appliance/index.html>.

Oracle Private Cloud Appliance Release 3.x is a flexible general purpose Infrastructure as a Service solution, engineered for optimal performance and compatibility with Oracle Cloud Infrastructure. It allows customers to consume the core cloud services from the safety of their own network, behind their own firewall.

Audience

This documentation is intended for owners, administrators and operators of Oracle Private Cloud Appliance. It provides architectural and technical background information about the engineered system components and services, as well as instructions for installation, administration, monitoring and usage.

Oracle Private Cloud Appliance has two strictly separated operating areas, known as enclaves. The Compute Enclave offers a practically identical experience to Oracle Cloud Infrastructure: It allows users to build, configure and manage cloud workloads using compute instances and their associated cloud resources. The Service Enclave is where privileged administrators configure and manage the appliance infrastructure that provides the foundation for the cloud environment. The target audiences of these enclaves are distinct groups of users and administrators. Each enclave also provides its own separate interfaces.

It is assumed that readers have experience with system administration, network and storage configuration, and are familiar with virtualization technologies. Depending on the types of workloads deployed on the system, it is advisable to have a general understanding of container orchestration, and UNIX and Microsoft Windows operating systems.

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Provide feedback about this documentation at <https://www.oracle.com/goto/docfeedback>.

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The following text conventions are used in this document:

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1

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2

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3

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amqp

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antlr4-python3-runtime

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
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```
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<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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```
=====
4th Party Dependencies Outline:
=====
```

```
glibc-2.17-317.0.1.el7.x86_64
* /usr/share/doc/glibc-2.17/README
* /usr/share/doc/glibc-2.17/COPYING
* /usr/share/doc/glibc-2.17/COPYING.LIB
* /usr/share/doc/glibc-2.17/LICENSES
ncurses-libs-5.9-14.20130511.el7_4.x86_64
* /usr/share/doc/ncurses-5.9/README
zlib-1.2.7-18.el7.x86_64
* /usr/share/doc/zlib-1.2.7/README
```

```
=====
glibc-2.17-317.0.1.el7.x86_64
=====
/usr/share/doc/glibc-2.17/README
-----
```

This directory contains the sources of the GNU C Library.
 See the file "version.h" for what release version you have.
 The GNU C Library is the standard system C library for all GNU systems, and is an important part of what makes up a GNU system. It provides the system API for all programs written in C and C-compatible languages such as C++ and Objective C; the runtime facilities of other programming languages use the C library to access the underlying operating system. In GNU/Linux systems, the C library works with the Linux kernel to implement the operating system behavior seen by user applications. In GNU/Hurd systems, it works with a microkernel and Hurd servers. The GNU C Library implements much of the POSIX.1 functionality in the GNU/Hurd system, using configurations i[34567]86-*-gnu. The current GNU/Hurd support requires out-of-tree patches that will eventually be incorporated into an official GNU C Library release. When working with Linux kernels, this version of the GNU C Library requires Linux kernel version 2.6.16 or later. Also note that the shared version of the libgcc_s library must be installed for the pthread library to work correctly. The GNU C Library supports these configurations for using Linux kernels:
 i[4567]86-*-linux-gnu

```

x86_64*-*-linux-gnu    Can build either x86_64 or x32
powerpc*-*-linux-gnu   Hardware floating point required
powerpc64*-*-linux-gnu
s390*-*-linux-gnu
s390x*-*-linux-gnu
sh[34]*-*-linux-gnu
sparc*-*-linux-gnu
sparc64*-*-linux-gnu

```

The code for other CPU configurations supported by volunteers outside of the core glibc maintenance effort is contained in the 'ports' add-on, located in the 'ports' subdirectory of the source tree.

```

aarch64*-*-linux-gnu
alpha*-*-linux-gnu
am33*-*-linux-gnu      Not currently functional
arm*-*-linux-gnueabi
hppa*-*-linux-gnu      Not currently functional without patches.
ia64*-*-linux-gnu
m68k*-*-linux-gnu
mips*-*-linux-gnu
mips64*-*-linux-gnu
powerpc*-*-linux-gnu   Software floating point (--without-fp)
tilegx*-*-linux-gnu
tilepro*-*-linux-gnu

```

If you are interested in doing a port, please contact the glibc maintainers; see <http://www.gnu.org/software/libc/> for more information.

See the file INSTALL to find out how to configure, build, and install the GNU C Library. You might also consider reading the WWW pages for the C library at <http://www.gnu.org/software/libc/>.

The GNU C Library is (almost) completely documented by the Texinfo manual found in the 'manual/' subdirectory. The manual is still being updated and contains some known errors and omissions; we regret that we do not have the resources to work on the manual as much as we would like. For corrections to the manual, please file a bug in the 'manual' component, following the bug-reporting instructions below. Please be sure to check the manual in the current development sources to see if your problem has already been corrected.

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```

-----
/usr/share/doc/glibc-2.17/COPYING
-----

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certifi

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#
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<http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#>
It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication.
Just configure this file as the SSLCACertificateFile.#

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cmd2

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colorama

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configparser

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pycparser -- A C parser in Python

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erlang-getopt

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https://github.com/eventlet/eventlet/blob/v0.32.0/eventlet/green/http/cookies.py

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# Id: Cookie.py,v 2.29 2000/08/23 05:28:49 timo Exp
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#
# Cookie.py is a Python module for the handling of HTTP
# cookies as a Python dictionary. See RFC 2109 for more
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#
# The original idea to treat Cookies as a dictionary came from
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#
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external-attacher

github.com/kubernetes-csi/external-attacher/v2

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github.com/google/go-cmp

github.com/google/uuid

github.com/imdario/mergo

github.com/miekg/dns

github.com/spf13/pflag

golang.org/x/crypto

golang.org/x/net

golang.org/x/oauth2

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github.com/cespare/xxhash/v2
github.com/json-iterator/go
gopkg.in/yaml.v3

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external-resizer

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github.com/kubernetes-csi/csi-lib-utils
github.com/matttproud/golang_protobuf_extensions
github.com/modern-go/concurrent
github.com/modern-go/reflect2
github.com/prometheus/client_golang
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golang.org/x/time

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github.com/gogo/protobuf

github.com/golang/protobuf

github.com/google/go-cmp

github.com/imdario/mergo

github.com/spf13/pflag

golang.org/x/crypto

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external-snapshotter

external-snapshotter

github.com/kubernetes-csi/external-snapshotter/v2

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github.com/evanphx/json-patch

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github.com/pkg/errors

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github.com/hashicorp/golang-lru

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msgpack (Apache 2.0)

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backport frop python3 Lib/test/support.py

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For this reason, I \*want\* to be able to support binary only external modules when needed, with a GPL core and GPL modules for standard protocols, so that people fixing bugs don't keep them secretly to try to stay over competition. The solution was then to apply the LGPL license to the exportable include files, while keeping the GPL for all the rest. This way, it still is mandatory to redistribute modified code under customer request, but at the same time, it is expressly permitted to write, compile, link and load non-GPL code using the LGPL header files and not to distribute them if it causes a legal problem.

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=====[bazil.org/fuse](http://bazil.org/fuse)

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```

File fuse\_kernel.go:

```
// Derived from FUSE's fuse_kernel.h
/*
This file defines the kernel interface of FUSE
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```

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github.com/cncf/udpa  
github.com/cockroachdb/errors  
github.com/cockroachdb/logtags  
github.com/containerd/aufs  
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github.com/containerd/go-cni  
github.com/containerd/imgcrypt  
github.com/containerd/nri  
github.com/containerd/zfs  
github.com/container networking/cni  
github.com/container networking/plugins  
github.com/containers/ocicrypt  
github.com/coreos/go-iptables  
github.com/distribution/distribution/  
github.com/docker/docker  
github.com/docker/go-events  
github.com/docker/go-events  
github.com/gomodule/redigo  
github.com/google/shlex  
github.com/mistifyio/go-zfs  
github.com/moby/locker  
github.com/moby/spdystream  
github.com/moby/sys/mountinfo  
github.com/moby/sys/symlink  
github.com/mrunalp/fileutils  
github.com/opencontainers/runtime-tools  
github.com/opencontainers/selinux  
github.com/safchain/ethtool  
github.com/stefanberger/go-pkcs11uri  
github.com/vishvananda/netlink  
github.com/vishvananda/netns  
go.opentelemetry.io/contrib  
go.opentelemetry.io/contrib/instrumentation/net/http/otelhttp  
go.opentelemetry.io/otel  
go.opentelemetry.io/otel/exporters/otlp  
go.opentelemetry.io/otel/metric  
go.opentelemetry.io/otel/oteltest  
go.opentelemetry.io/otel/sdk

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go.opentelemetry.io/otel/sdk/export/metric
go.opentelemetry.io/otel/sdk/metric
go.opentelemetry.io/otel/trace
go.opentelemetry.io/proto/otlp
k8s.io/cri-api
k8s.io/kubernetes
oras.land/oras-go
github.com/oras-project/oras-go
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cloud.google.com/go/datastore
cloud.google.com/go/firestore
cloud.google.com/go/pubsub
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github.com/docker/docker-credential-helpers  
github.com/docker/go-connections  
github.com/docker/go-metrics  
github.com/docker/go-units  
github.com/docker/libtrust  
github.com/envoyproxy/go-control-plane  
github.com/garyburd/redigo  
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github.com/go-openapi/jsonpointer  
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github.com/grpc-ecosystem/go-grpc-prometheus  
github.com/jonboulle/clockwork  
github.com/lyft/protoc-gen-validate  
github.com/mattproud/golang\_protobuf\_extensions  
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go.opencensus.io  
github.com/golang/appengine  
github.com/golang/genproto  
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sigs.k8s.io/apiserver-network-proxy/konnectivity-client  
sigs.k8s.io/kustomize  
sigs.k8s.io/kustomize/api  
sigs.k8s.io/kustomize/cmd/config  
sigs.k8s.io/kustomize/kustomize/v4  
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rsc.io/letsencrypt

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gopkg.in/gemnasium/logrus-airbrake-hook.v2

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github.com/niemeyer/pretty

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github.com/j-keck/arping

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github.com/josharian/intern

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github.com/jpillora/backoff

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github.com/Masterminds/sprig

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[github.com/alexflint/go-filemutex](https://github.com/alexflint/go-filemutex)

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[github.com/benbjohnson/clock](https://github.com/benbjohnson/clock)

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[github.com/buger/jsonparser](https://github.com/buger/jsonparser)

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[github.com/frankban/quicktest](https://github.com/frankban/quicktest)

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[github.com/Azure/azure-sdk-for-go](https://github.com/Azure/azure-sdk-for-go)

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[github.com/Azure/go-ansiterm](https://github.com/Azure/go-ansiterm)

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[github.com/BurntSushi/toml](https://github.com/BurntSushi/toml)



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github.com/MakeNowJust/heredoc  
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github.com/Microsoft/go-winio  
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github.com/Microsoft/hcsshim

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[github.com/bitly/go-simplejson](https://github.com/bitly/go-simplejson)

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[github.com/bshuster-repo/logrus-logstash-hook](https://github.com/bshuster-repo/logrus-logstash-hook)

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github.com/bugsnag/panicwrap

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github.com/cespare/xxhash

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github.com/coreos/bbolt

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github.com/creack/pty

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github.com/dgrijalva/jwt-go

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github.com/emicklei/go-restful

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github.com/exponent-io/jsonpath

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github.com/fatih/camelcase

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github.com/fatih/color

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=====github.com/DATA-DOG/go-sqlmock

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=====github.com/Masterminds/squirrel

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=====github.com/Masterminds/vcs

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=====github.com/PuerkitoBio/purell

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=====github.com/bgentry/speakeasy

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[github.com/google/uuid](https://github.com/google/uuid)

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github.com/bugsnag/osex  
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github.com/davecgh/go-spew

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github.com/dnaeon/go-vcr

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github.com/dustin/go-humanize

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github.com/fvbommel/sortorder

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github.com/ghodss/yaml

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github.com/go-kit/kit

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github.com/go-logfmt/logfmt

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github.com/go-stack/stack  
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github.com/gobuffalo/logger

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github.com/gobuffalo/packd  
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github.com/gobuffalo/packr

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github.com/gobwas/glob

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github.com/pkg/sftp

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github.com/godbus/dbus

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github.com/karrick/godirwalk  
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github.com/klauspost/compress  
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google/go-cmp v0.4.0
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github.com/gofrs/flock

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[github.com/getsentry/raven-go](https://github.com/getsentry/raven-go)

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github.com/d2g/dhcp4

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github.com/bits-and-blooms/bitset  
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Protocol Buffers for Go with Gadgets

Go support for Protocol Buffers - Google's data interchange format

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github.com/googleapis/gax-go

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github.com/gorilla/handlers

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github.com/godbus/dbus

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github.com/markbates/errx

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github.com/gregjones/httpcache

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github.com/go-errors/errors

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github.com/imdario/mergo

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github.com/inconshreveable/mousetrap

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github.com/jmoiron/sqlx  
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github.com/jstemmer/go-junit-report  
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github.com/jtolds/gls  
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github.com/kisielk/errcheck  
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github.com/kisielk/gotool  
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github.com/konsorten/go-windows-terminal-sequences

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github.com/lithammer/dedent

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github.com/mattn/go-oci8

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github.com/matttn/go-runewidth

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## iscsi-initiator-utils

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## jackson-module-jaxb-annotations

jackson-module-jaxb-annotations 2.9.9

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4th party dependenci included in jsonp packaging (delivered in api module):  
jakarta.json.jar 2.0.0

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## JavaScript Extension Toolkit (JET)

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Chai - v4.2.0  
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petit-dom - v0.2.2

<https://github.com/yelouafi/petit-dom>

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webcomponents/custom-elements - v1.1.2

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Hammer.JS - v2.0.8 - 2016-04-22  
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Normalize.scss

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RequireJS i18n 2.0.2

<http://github.com/requirejs/i18n> for details

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ES6-Promise  
<https://github.com/stefanpenner/es6-promise>



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jQuery UI - v1.12.1 - 2015-03-18

<http://jqueryui.com>

Includes: core.js, widget.js, mouse.js, position.js, draggable.js, sortable.js

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jQuery JavaScript Library v3.5.1

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JS Signals <<http://millermedeiros.github.com/js-signals/>>

Author: Miller Medeiros

Version: 1.0.0 - Build: 268 (2012/11/29 05:48 PM)

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RequireJS text 2.0.15

<http://github.com/requirejs/text>

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RequireJS 2.3.6

<http://github.com/jrburke/requirejs>

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===== Proj4js =====

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## jersey-client

Top level Component : jersey-client

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```
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====
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2.0]
#03 jakarta.ws.rs » jakarta.ws.rs-api [EPL 2.0 + GPL v.2
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#05 org.glassfish.jersey.core » jersey-common [EPL 2.0 + GPL v.2
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```

```
#06 org.glassfish.hk2 » osgi-resource-locator [EPL 2.0 + GPL
v.2 with CPE]
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## jersey-container-servlet-core

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## jersey-ext-entity-filtering

jersey-ext-entity-filtering (org.glassfish.jersey.ext:jersey-entity-filtering) 3.0.4

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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
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## jersey-media-json-jackson

Top level Component : jersey-media-json-jackson

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```


Fourth party dependencies

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#02 java:com.fasterxml.jackson.core:jackson-databind [Apache 2.0]
#03 com.fasterxml.jackson.core:jackson-annotations [Apache 2.0]
#04 com.fasterxml.jackson.core:jackson-core [Apache 2.0]
#05 com.fasterxml.jackson.module:jackson-module-jakarta-xmlbind-annotations
[Apache 2.0]
#06 com.fasterxml.jackson.core:jackson-core [Apache 2.0]
#07 jakarta.activation:jakarta.activation-api [EDL 1.0]
```

```
#08 jakarta.xml.bind:jakarta.xml.bind-api [EDL 1.0]
#09 java:org.glassfish.jersey.core:jersey-common[EPL 2.0 + GPL v.2 with
CPE]
#10 jakarta.annotation:jakarta.annotation-api [EPL 2.0 + GPL v.2 with
CPE]
#11 jakarta.inject:jakarta.inject-api [Apache 2.0]
#12 jakarta.ws.rs:jakarta.ws.rs-api [EPL 2.0 + GPL v.2 with CPE]
#13 org.glassfish.hk2:osgi-resource-locator [EPL 2.0 + GPL v.2 with CPE]
#14 org.osgi:osgi.core [Apache 2.0]
#14 org.osgi:osgi.cmpn [Apache 2.0]
#15 java:org.glassfish.jersey.ext:jersey-entity-filtering [EPL 2.0 + GPL
v.2 with CPE]
```

-----  
Notices for #01 Jackson Annotations to #06 Jackson Core  
-----

# Jackson JSON processor

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Source: <http://hg.openjdk.java.net/code-tools/jtharness/normalize.css>

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## jersey-server

Top level Component : jersey-server

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#07 osgi-resource-locator

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## Kubernetes Python Client

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github.com/weaveworks/common

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github.com/go-redis/redis/v8

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iso\_dsdl\_include.xsl:  
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-----  
RNG2Schtrn.xsl:  
-----

Stylesheet for extracting Schematron information from a RELAX-NG schema.  
Based on the stylesheet for extracting Schematron information from  
W3C XML Schema.  
Created by Eddie Robertsson 2002/06/01  
2009/12/10 hj: changed Schematron namespace to ISO URI (Holger Joukl)

-----  
XSD2Schtrn.xsl:  
-----

based on an original transform by Eddie Robertsson  
2001/04/21 fn: added support for included schemas  
2001/06/27 er: changed XML Schema prefix from xsd: to xs: and  
changed to the Rec namespace  
2009/12/10 hj: changed Schematron namespace to ISO URI (Holger Joukl)

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github.com/prometheus/client\_model/go 0.14.0 Apache 2.0  
github.com/prometheus/common "revision":  
"7600349dcfelabd18d72d3a1770870d9800a7801", "revisionTime":  
"2018-05-18T15:47:59Z", Apache 2.0  
github.com/prometheus/procfs "revision":  
"7d6f385de8bea29190f15ba9931442a0eaf9af7", "revisionTime":  
"2018-06-12T22:21:13Z", Apache 2.0  
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## Node Exporter Full Grafana Dashboard

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4P Dependencies:

setuptools

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six

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wheel 0.32.3

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urllib3

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certifi

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ca-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011#

This is a bundle of X.509 certificates of public Certificate Authorities  
(CA). These were automatically extracted from Mozilla's root certificates  
file (certdata.txt). This file can be found in the mozilla source tree:

[http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?](http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1#)

raw=1#

It contains the certificates in PEM format and therefore  
can be directly used with curl / libcurl / php\_curl, or with  
an Apache+mod\_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

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github.com/miekg/dns
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EXHIBIT B - Standards

The Standard is defined as the following:

sFlow Specification, located at

[1]<http://sflow.org/developers/specifications.php>

References

1. <http://sflow.org/developers/specifications.php>

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\* m4/absolute-header.m4, by Derek Price, and m4/include\_next.m4, by

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## ovs (Python)

<https://github.com/openvswitch/ovs/blob/v2.14.0/NOTICE>

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The source file ``passlib/handlers/md5\_crypt.py`` contains code derived from the original

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DES

---

The source file ``passlib/crypto/des.py`` contains code derived from

UnixCrypt.java <<http://www.dynamic.net.au/christos/crypt/UnixCrypt2.txt>>`, a pure-java implementation of the historic unix-crypt password hash algorithm.

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UnixCrypt.java 0.9 96/11/25

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modified April 2001

by Iris Van den Broeke, Daniel Deville

modified Aug 2005

by Greg Wilkins (gregw)

converted to python Jun 2009

by Eli Collins

jBCrypt

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The source file ``passlib/crypto/\_blowfish/base.py`` contains code derived from jBCrypt 0.2 <<http://www.mindrot.org/projects/jBCrypt/>>`, a Java implementation of the BCrypt password hash algorithm. It is available under a BSD/ISC license::

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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|----------------|-----------|-----------|------------|---------|
| 0.9.0 thru 1.2 |           | 1991-1995 | CWI        | yes     |
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| 1.6            | 1.5.2     | 2000      | CNRI       | no      |
| 2.0            | 1.6       | 2000      | BeOpen.com | no      |
| 1.6.1          | 1.6       | 2001      | CNRI       | yes (2) |
| 2.1            | 2.0+1.6.1 | 2001      | PSF        | no      |
| 2.0.1          | 2.0+1.6.1 | 2001      | PSF        | yes     |
| 2.1.1          | 2.1+2.0.1 | 2001      | PSF        | yes     |
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Mersenne Twister

The `_random` module includes code based on a download from <http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html>. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>  
email: m-mat @ math.sci.hiroshima-u.ac.jp (remove space)

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Sockets

The socket module uses the functions, `getaddrinfo()`, and `getnameinfo()`, which  
are coded in separate source files from the WIDE Project, <http://www.wide.ad.jp/>.

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

-----

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Original location:

<https://github.com/majek/csiphash/>

Solution inspired by code from:

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djb ([supercooper/crypto\\_auth/siphash24/little2](https://github.com/supercooper/crypto_auth/siphash24/little2))

Jean-Philippe Aumasson (<https://131002.net/siphash/siphash24.c>)

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strtod and dtoa

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```

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## python 3.6.8-17

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### History and License

#### History of the software

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <https://www.cwi.nl/>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <https://www.cnri.reston.va.us/>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see <https://www.zope.org/>). In 2001, the Python Software Foundation (PSF, see <https://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Derived from

Year  
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 0.9.0 thru 1.2  
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 1991-1995  
 CWI  
 yes  
 1.3 thru 1.5.2  
 1.2  
 1995-1999  
 CNRI  
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 1.6  
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 2000  
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2001

PSF

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2001

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2.1.1

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2.1.2

2.1.1

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2.1.3

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Mersenne Twister

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A C-program for MT19937, with initialization improved 2002/1/26.  
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using `init_genrand(seed)`  
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<http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html>

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Sockets

The socket module uses the functions, `getaddrinfo()`, and `getnameinfo()`, which  
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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.

- Arguments more compliant with Python standard

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Original location:  
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```

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zlib

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Jean-loup Gailly

Mark Adler

jloup@gzip.org

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cfuhash

The implementation of the hash table used by the tracemalloc is based on the cfuhash project:

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libmpdec

The `_decimal` module is built using an included copy of the libmpdec library unless the build is configured `--with-system-libmpdec`:

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## Python 2.7.5-90.0.3

### A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                 |
| 2.4.3          | 2.4.2        | 2006      | PSF        | yes                 |
| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                 |

|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.5   | 2.4   | 2006 | PSF | yes |
| 2.5.1 | 2.5   | 2007 | PSF | yes |
| 2.5.2 | 2.5.1 | 2008 | PSF | yes |
| 2.5.3 | 2.5.2 | 2008 | PSF | yes |
| 2.6   | 2.5   | 2008 | PSF | yes |
| 2.6.1 | 2.6   | 2008 | PSF | yes |
| 2.6.2 | 2.6.1 | 2009 | PSF | yes |
| 2.6.3 | 2.6.2 | 2009 | PSF | yes |
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 2.7   | 2.6   | 2010 | PSF | yes |

## Footnotes:

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- (2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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README File

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-----  
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=====

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#### What's new in this release? -----

See the file "Misc/NEWS".

#### If you don't read instructions -----

Congratulations on getting this far. :-)

To start building right away (on UNIX): type "./configure" in the current directory and when it finishes, type "make". This creates an executable "./python"; to install in /usr/local, first do "su root" and then "make install".

The section 'Build instructions' below is still recommended reading.

#### What is Python anyway? -----

Python is an interpreted, interactive object-oriented programming language suitable (amongst other uses) for distributed application development, scripting, numeric computing and system testing. Python is often compared to Tcl, Perl, Java, JavaScript, Visual Basic or Scheme. To find out more about what Python can do for you, point your browser to <http://www.python.org/>.

#### How do I learn Python? -----

The official tutorial is still a good place to start; see <http://docs.python.org/> for online and downloadable versions, as well as a list of other introductions, and reference documentation.

There's a quickly growing set of books on Python. See <http://wiki.python.org/moin/PythonBooks> for a list.

#### Documentation -----

All documentation is provided online in a variety of formats. In order of importance for new users: Tutorial, Library Reference, Language Reference, Extending & Embedding, and the Python/C API. The Library Reference is especially of immense value since much of Python's power is described there, including the built-in data types and functions!

All documentation is also available online at the Python web site (<http://docs.python.org/>, see below). It is available online for occasional reference, or can be downloaded in many formats for faster access. The documentation is downloadable in HTML, PostScript, PDF, LaTeX, and reStructuredText (2.6+) formats; the LaTeX and reStructuredText versions are primarily for documentation authors, translators, and people with special formatting requirements.

#### Web sites

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Read `comp.lang.python`, a high-volume discussion newsgroup about Python, or `comp.lang.python.announce`, a low-volume moderated newsgroup for Python-related announcements. These are also accessible as mailing lists: see <http://www.python.org/community/lists/> for an overview of these and many other Python-related mailing lists.

Archives are accessible via the Google Groups Usenet archive; see <http://groups.google.com/>. The mailing lists are also archived, see <http://www.python.org/community/lists/> for details.

#### Bug reports

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To report or search for bugs, please use the Python Bug Tracker at <http://bugs.python.org/>.

#### Patches and contributions

-----

To submit a patch or other contribution, please use the Python Patch Manager at <http://bugs.python.org/>. Guidelines for patch submission may be found at <http://www.python.org/dev/patches/>.

If you have a proposal to change Python, you may want to send an email to the `comp.lang.python` or `python-ideas` mailing lists for initial feedback. A Python Enhancement Proposal (PEP) may be submitted if your idea gains ground. All current PEPs, as well as guidelines for submitting a new PEP, are listed at <http://www.python.org/dev/peps/>.

#### Questions

-----

For help, if you can't find it in the manuals or on the web site, it's best to post to the comp.lang.python or the Python mailing list (see above). If you specifically don't want to involve the newsgroup or mailing list, send questions to [help@python.org](mailto:help@python.org) (a group of volunteers who answer questions as they can). The newsgroup is the most efficient way to ask public questions.

#### Build instructions =====

Before you can build Python, you must first configure it. Fortunately, the configuration and build process has been automated for Unix and Linux installations, so all you usually have to do is type a few commands and sit back. There are some platforms where things are not quite as smooth; see the platform specific notes below. If you want to build for multiple platforms sharing the same source tree, see the section on VPATH below.

Start by running the script `./configure`, which determines your system configuration and creates the Makefile. (It takes a minute or two -- please be patient!) You may want to pass options to the configure script -- see the section below on configuration options and variables. When it's done, you are ready to run make.

To build Python, you normally type `"make"` in the toplevel directory. If you have changed the configuration, the Makefile may have to be rebuilt. In this case, you may have to run make again to correctly build your desired target. The interpreter executable is built in the top level directory.

Once you have built a Python interpreter, see the subsections below on testing and installation. If you run into trouble, see the next section.

Previous versions of Python used a manual configuration process that involved editing the file `Modules/Setup`. While this file still exists and manual configuration is still supported, it is rarely needed any more: almost all modules are automatically built as appropriate under guidance of the `setup.py` script, which is run by Make after the interpreter has been built.

#### Troubleshooting -----

See also the platform specific notes in the next section.

If you run into other trouble, see the FAQ (<http://www.python.org/doc/faq/>) for hints on what can go wrong, and how to fix it.

If you rerun the configure script with different options, remove all object files by running `"make clean"` before rebuilding. Believe it or not, `"make clean"` sometimes helps to clean up other inexplicable problems as well. Try it before sending in a bug report!

If the configure script fails or doesn't seem to find things that should be there, inspect the `config.log` file.

If you get a warning for every file about the `-Olimit` option being no

longer supported, you can ignore it. There's no foolproof way to know whether this option is needed; all we can do is test whether it is accepted without error. On some systems, e.g. older SGI compilers, it is essential for performance (specifically when compiling `ceval.c`, which has more basic blocks than the default limit of 1000). If the warning bothers you, edit the Makefile to remove `"-Olimit 1500"` from the `OPT` variable.

If you get failures in `test_long`, or `sys.maxint` gets set to `-1`, you are probably experiencing compiler bugs, usually related to optimization. This is a common problem with some versions of `gcc`, and some vendor-supplied compilers, which can sometimes be worked around by turning off optimization. Consider switching to stable versions (`gcc 2.95.2`, `gcc 3.x`, or contact your vendor.)

From Python 2.0 onward, all Python C code is ANSI C. Compiling using old K&R-C-only compilers is no longer possible. ANSI C compilers are available for all modern systems, either in the form of updated compilers from the vendor, or one of the free compilers (`gcc`).

If `"make install"` fails mysteriously during the `"compiling the library"` step, make sure that you don't have any of the `PYTHONPATH` or `PYTHONHOME` environment variables set, as they may interfere with the newly built executable which is compiling the library.

#### Unsupported systems

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A number of systems are not supported in Python 2.7 anymore. Some support code is still present, but will be removed in later versions. If you still need to use current Python versions on these systems, please send a message to [python-dev@python.org](mailto:python-dev@python.org) indicating that you volunteer to support this system. For a more detailed discussion regarding no-longer-supported and resupporting platforms, as well as a list of platforms that became or will be unsupported, see PEP 11.

More specifically, the following systems are not supported any longer:

- SunOS 4
- DYNIX
- dgux
- Minix
- NeXT
- Irix 4 and `--with-sgi-dl`
- Linux 1
- Systems defining `__d6_pthread_create` (`configure.ac`)
- Systems defining `PY_PTHREAD_D4`, `PY_PTHREAD_D6`, or `PY_PTHREAD_D7` in `thread_pthread.h`
- Systems using `--with-dl-dld`
- Systems using `--without-universal-newlines`
- MacOS 9
- Systems using `--with-wctype-functions`
- Win9x, WinME

#### Platform specific notes

-----

(Some of these may no longer apply. If you find you can build Python on these platforms without the special directions mentioned here, submit a documentation bug report to SourceForge (see Bug Reports

above) so we can remove them!)

Unix platforms: If your vendor still ships (and you still use) Berkeley DB 1.85 you will need to edit Modules/Setup to build the bsddb185 module and add a line to sitecustomize.py which makes it the default. In Modules/Setup a line like

```
bsddb185 bsddbmodule.c
```

should work. (You may need to add -I, -L or -l flags to direct the compiler and linker to your include files and libraries.)

XXX I think this next bit is out of date:

64-bit platforms: The modules audioop, and imageop don't work. The setup.py script disables them on 64-bit installations. Don't try to enable them in the Modules/Setup file. They contain code that is quite wordsize sensitive. (If you have a fix, let us know!)

Solaris: When using Sun's C compiler with threads, at least on Solaris 2.5.1, you need to add the "-mt" compiler option (the simplest way is probably to specify the compiler with this option as the "CC" environment variable when running the configure script).

When using GCC on Solaris, beware of binutils 2.13 or GCC versions built using it. This mistakenly enables the -zcombreloc option which creates broken shared libraries on Solaris. binutils 2.12 works, and the binutils maintainers are aware of the problem. Binutils 2.13.1 only partially fixed things. It appears that 2.13.2 solves the problem completely. This problem is known to occur with Solaris 2.7 and 2.8, but may also affect earlier and later versions of the OS.

When the dynamic loader complains about errors finding shared libraries, such as

```
ld.so.1: ./python: fatal: libstdc++.so.5: open failed:
No such file or directory
```

you need to first make sure that the library is available on your system. Then, you need to instruct the dynamic loader how to find it. You can choose any of the following strategies:

1. When compiling Python, set LD\_RUN\_PATH to the directories containing missing libraries.
2. When running Python, set LD\_LIBRARY\_PATH to these directories.
3. Use crle(8) to extend the search path of the loader.
4. Modify the installed GCC specs file, adding -R options into the \*link: section.

The complex object fails to compile on Solaris 10 with gcc 3.4 (at least up to 3.4.3). To work around it, define Py\_HUGE\_VAL as HUGE\_VAL(), e.g.:

```
make CPPFLAGS='-D"Py_HUGE_VAL=HUGE_VAL()" -I. -I$(srcdir)/Include'
./python setup.py CPPFLAGS='-D"Py_HUGE_VAL=HUGE_VAL()"'
```

Linux: A problem with threads and fork() was tracked down to a bug in

the pthreads code in glibc version 2.0.5; glibc version 2.0.7 solves the problem. This causes the popen2 test to fail; problem and solution reported by Pablo Bleyer.

Red Hat Linux: Red Hat 9 built Python2.2 in UCS-4 mode and hacked Tcl to support it. To compile Python2.3 with Tkinter, you will need to pass `--enable-unicode=ucs4` flag to `./configure`.

There's an executable `/usr/bin/python` which is Python 1.5.2 on most older Red Hat installations; several key Red Hat tools require this version. Python 2.1.x may be installed as `/usr/bin/python2`. The Makefile installs Python as `/usr/local/bin/python`, which may or may not take precedence over `/usr/bin/python`, depending on how you have set up `$PATH`.

FreeBSD 3.x and probably platforms with NCurses that use libmytinfo or similar: When using cursesmodule, the linking is not done in the correct order with the defaults. Remove `"-ltermcap"` from the readline entry in Setup, and use as curses entry: `"curses cursesmodule.c -lmytinfo -lncurses -ltermcap" - "mytinfo"` (so called on FreeBSD) should be the name of the auxiliary library required on your platform. Normally, it would be linked automatically, but not necessarily in the correct order.

BSDI: BSDI versions before 4.1 have known problems with threads, which can cause strange errors in a number of modules (for instance, the 'test\_signal' test script will hang forever.) Turning off threads (with `--with-threads=no`) or upgrading to BSDI 4.1 solves this problem.

DEC Unix: Run configure with `--with-dec-threads`, or with `--with-threads=no` if no threads are desired (threads are on by default). When using GCC, it is possible to get an internal compiler error if optimization is used. This was reported for GCC 2.7.2.3 on selectmodule.c. Manually compile the affected file without optimization to solve the problem.

DEC Ultrix: compile with GCC to avoid bugs in the native compiler, and pass `SHELL=/bin/sh5` to Make when installing.

AIX: A complete overhaul of the shared library support is now in place. See Misc/AIX-NOTES for some notes on how it's done. (The optimizer bug reported at this place in previous releases has been worked around by a minimal code change.) If you get errors about pthread\_\* functions, during compile or during testing, try setting CC to a thread-safe (reentrant) compiler, like `"cc_r"`. For full C++ module support, set `CC="xlc_r"` (or `CC="xlc"` without thread support).

AIX 5.3: To build a 64-bit version with IBM's compiler, I used the following:

```
export PATH=/usr/bin:/usr/vacpp/bin
./configure --with-gcc="xlc_r -q64" --with-cxx="xlc_r -q64" \
 --disable-ipv6 AR="ar -X64"
make
```

HP-UX: When using threading, you may have to add `-D_REENTRANT` to the OPT variable in the top-level Makefile; reported by Pat Knight, this seems to make a difference (at least for HP-UX 10.20) even though pyconfig.h defines it. This seems unnecessary when

using HP/UX 11 and later - threading seems to work "out of the box".

HP-UX ia64: When building on the ia64 (Itanium) platform using HP's compiler, some experience has shown that the compiler's optimiser produces a completely broken version of python (see <http://bugs.python.org/814976>). To work around this, edit the Makefile and remove -O from the OPT line.

To build a 64-bit executable on an Itanium 2 system using HP's compiler, use these environment variables:

```
CC=cc
CXX=aCC
BASECFLAGS="+DD64"
LD_FLAGS="+DD64 -lxnet"
```

and call configure as:

```
./configure --without-gcc
```

then *\*unset\** the environment variables again before running make. (At least one of these flags causes the build to fail if it remains set.) You still have to edit the Makefile and remove -O from the OPT line.

HP PA-RISC 2.0: A recent bug report (<http://bugs.python.org/546117>) suggests that the C compiler in this 64-bit system has bugs in the optimizer that break Python. Compiling without optimization solves the problems.

SCO: The following apply to SCO 3 only; Python builds out of the box on SCO 5 (or so we've heard).

1) Everything works much better if you add -U\_\_STDC\_\_ to the defs. This is because all the SCO header files are broken. Anything that isn't mentioned in the C standard is conditionally excluded when \_\_STDC\_\_ is defined.

2) Due to the U.S. export restrictions, SCO broke the crypt stuff out into a separate library, libcrypt\_i.a so the LIBS needed be set to:

```
LIBS=' -lsocket -lcrypt_i'
```

UnixWare: There are known bugs in the math library of the system, as well as problems in the handling of threads (calling fork in one thread may interrupt system calls in others). Therefore, test\_math and tests involving threads will fail until those problems are fixed.

QNX: Chris Herborth ([chrish@qnx.com](mailto:chrish@qnx.com)) writes: configure works best if you use GNU bash; a port is available on [ftp.qnx.com](http://ftp.qnx.com) in /usr/free. I used the following process to build, test and install Python 1.5.x under QNX:

1) CONFIG\_SHELL=/usr/local/bin/bash CC=cc RANLIB=: \  
./configure --verbose --without-gcc --with-libm=""

2) edit Modules/Setup to activate everything that makes sense for your system... tested here at QNX with the following modules:



```
array, audioop, binascii, cPickle, cStringIO, cmath,
crypt, curses, errno, fcntl, gdbm, grp, imageop,
_locale, math, md5, new, operator, parser, pcre,
posix, pwd, readline, regex, reop,
select, signal, socket, soundex, strop, struct,
syslog, termios, time, timing, zlib, audioop, imageop
```

3) make SHELL=/usr/local/bin/bash

or, if you feel the need for speed:

```
make SHELL=/usr/local/bin/bash OPT="-5 -O1+nrt"
```

4) make SHELL=/usr/local/bin/bash test

Using GNU readline 2.2 seems to behave strangely, but I think that's a problem with my readline 2.2 port. :-\

5) make SHELL=/usr/local/bin/bash install

If you get SIGSEGVs while running Python (I haven't yet, but I've only run small programs and the test cases), you're probably running out of stack; the default 32k could be a little tight. To increase the stack size, edit the Makefile to read: LDFLAGS = -N 48k

BeOS: See Misc/BeOS-NOTES for notes about compiling/installing Python on BeOS R3 or later. Note that only the PowerPC platform is supported for R3; both PowerPC and x86 are supported for R4.

Cray T3E: Mark Hadfield (m.hadfield@niwa.co.nz) writes:

Python can be built satisfactorily on a Cray T3E but based on my experience with the NIWA T3E (2002-05-22, version 2.2.1) there are a few bugs and gotchas. For more information see a thread on comp.lang.python in May 2002 entitled "Building Python on Cray T3E".

1) Use Cray's cc and not gcc. The latter was reported not to work by Konrad Hinsén. It may work now, but it may not.

2) To set sys.platform to something sensible, pass the following environment variable to the configure script:

```
MACHDEP=unicosmk
```

2) Run configure with option "--enable-unicode=ucs4".

3) The Cray T3E does not support dynamic linking, so extension modules have to be built by adding (or uncommenting) lines in Modules/Setup. The minimum set of modules is

```
posix, new, _sre, unicodedata
```

On NIWA's vanilla T3E system the following have also been included successfully:

```
_codecs, _locale, _socket, _symtable, _testcapi, _weakref
array, binascii, cmath, cPickle, crypt, cStringIO, dbm
errno, fcntl, grp, math, md5, operator, parser, pcre, pwd
regex, rotor, select, struct, strop, syslog, termios
```

time, timing, xreadlines

- 4) Once the python executable and library have been built, make will execute setup.py, which will attempt to build remaining extensions and link them dynamically. Each of these attempts will fail but should not halt the make process. This is normal.
- 5) Running "make test" uses a lot of resources and causes problems on our system. You might want to try running tests singly or in small groups.

SGI: SGI's standard "make" utility (/bin/make or /usr/bin/make) does not check whether a command actually changed the file it is supposed to build. This means that whenever you say "make" it will redo the link step. The remedy is to use SGI's much smarter "smake" utility (/usr/sbin/smake), or GNU make. If you set the first line of the Makefile to #!/usr/sbin/smake smake will be invoked by make (likewise for GNU make).

WARNING: There are bugs in the optimizer of some versions of SGI's compilers that can cause bus errors or other strange behavior, especially on numerical operations. To avoid this, try building with "make OPT=".

OS/2: If you are running Warp3 or Warp4 and have IBM's VisualAge C/C++ compiler installed, just change into the pc\os2vacpp directory and type NMAKE. Threading and sockets are supported by default in the resulting binaries of PYTHON15.DLL and PYTHON.EXE.

Reliant UNIX: The thread support does not compile on Reliant UNIX, and there is a (minor) problem in the configure script for that platform as well. This should be resolved in time for a future release.

MacOSX: The tests will crash on both 10.1 and 10.2 with SEGV in test\_re and test\_sre due to the small default stack size. If you set the stack size to 2048 before doing a "make test" the failure can be avoided. If you're using the tcsh or csh shells, use "limit stacksize 2048" and for the bash shell (the default as of OSX 10.3), use "ulimit -s 2048".

On naked Darwin you may want to add the configure option "--disable-toolbox-glue" to disable the glue code for the Carbon interface modules. The modules themselves are currently only built if you add the --enable-framework option, see below.

On a clean OSX /usr/local does not exist. Do a "sudo mkdir -m 775 /usr/local" before you do a make install. It is probably not a good idea to do "sudo make install" which installs everything as superuser, as this may later cause problems when installing distutils-based additions.

Some people have reported problems building Python after using "fink" to install additional unix software. Disabling fink (remove all references to /sw from your .profile or .login) should solve this.

You may want to try the configure option "--enable-framework" which installs Python as a framework. The location can be set as argument to the --enable-framework option (default

/Library/Frameworks). A framework install is probably needed if you want to use any Aqua-based GUI toolkit (whether Tkinter, wxPython, Carbon, Cocoa or anything else).

You may also want to try the configure option "--enable-universalsdk" which builds Python as a universal binary with support for the i386 and PPC architectures. This requires Xcode 2.1 or later to build.

See Mac/README for more information on framework and universal builds.

Cygwin: With recent (relative to the time of writing, 2001-12-19) Cygwin installations, there are problems with the interaction of dynamic linking and fork(). This manifests itself in build failures during the execution of setup.py.

There are two workarounds that both enable Python (albeit without threading support) to build and pass all tests on NT/2000 (and most likely XP as well, though reports of testing on XP would be appreciated).

The workarounds:

(a) the band-aid fix is to link the \_socket module statically rather than dynamically (which is the default).

To do this, run "./configure --with-threads=no" including any other options you need (--prefix, etc.). Then in Modules/Setup uncomment the lines:

```
#SSL=/usr/local/ssl
#_socket socketmodule.c \
-DUSE_SSL -I$(SSL)/include -I$(SSL)/include/openssl \
-L$(SSL)/lib -lssl -lcrypto
```

and remove "local/" from the SSL variable. Finally, just run "make"!

(b) The "proper" fix is to rebase the Cygwin DLLs to prevent base address conflicts. Details on how to do this can be found in the following mail:

<http://sources.redhat.com/ml/cygwin/2001-12/msg00894.html>

It is hoped that a version of this solution will be incorporated into the Cygwin distribution fairly soon.

Two additional problems:

(1) Threading support should still be disabled due to a known bug in Cygwin pthreads that causes test\_threadedtempfile to hang.

(2) The \_curses module does not build. This is a known Cygwin ncurses problem that should be resolved the next time that this package is released.

On older versions of Cygwin, test\_poll may hang and test\_strftime may fail.

The situation on 9X/Me is not accurately known at present.

Some time ago, there were reports that the following regression tests failed:

```
test_pwd
test_select (hang)
test_socket
```

Due to the test\_select hang on 9X/Me, one should run the regression test using the following:

```
make TESTOPTS='-l -x test_select' test
```

News regarding these platforms with more recent Cygwin versions would be appreciated!

Windows: When executing Python scripts on the command line using file type associations (i.e. starting "script.py" instead of "python script.py"), redirects may not work unless you set a specific registry key. See the Knowledge Base article <<http://support.microsoft.com/kb/321788>>.

#### Configuring the bsddb and dbm modules

Beginning with Python version 2.3, the PyBsddb package <<http://pybsddb.sf.net/>> was adopted into Python as the bsddb package, exposing a set of package-level functions which provide backwards-compatible behavior. Only versions 3.3 through 4.4 of Sleepycat's libraries provide the necessary API, so older versions aren't supported through this interface. The old bsddb module has been retained as bsddb185, though it is not built by default. Users wishing to use it will have to tweak Modules/Setup to build it. The dbm module will still be built against the Sleepycat libraries if other preferred alternatives (ndbm, gdbm) are not found.

#### Building the sqlite3 module

To build the sqlite3 module, you'll need the sqlite3 or libsqlite3 packages installed, including the header files. Many modern operating systems distribute the headers in a separate package to the library - often it will be the same name as the main package, but with a -dev or -devel suffix.

The version of pysqlite2 that's including in Python needs sqlite3 3.0.8 or later. setup.py attempts to check that it can find a correct version.

#### Configuring threads

As of Python 2.0, threads are enabled by default. If you wish to compile without threads, or if your thread support is broken, pass the --with-threads=no switch to configure. Unfortunately, on some platforms, additional compiler and/or linker options are required for threads to work properly. Below is a table of those options, collected by Bill Janssen. We would love to automate this process more, but the information below is not enough to write a patch for the configure.ac file, so manual intervention is required. If you patch the configure.ac file and are confident that the patch works, please send in the patch. (Don't bother patching the configure script itself -- it is regenerated each time the configure.ac file changes.)

Compiler switches for threads  
.....

The definition of `_REENTRANT` should be configured automatically, if that does not work on your system, or if `_REENTRANT` is defined incorrectly, please report that as a bug.

| OS/Compiler/threads<br>(POSIX is draft 10, DCE is draft 4) | Switches for use with threads<br>compile & link |
|------------------------------------------------------------|-------------------------------------------------|
| SunOS 5.{1-5}/{gcc,SunPro cc}/solaris                      | -mt                                             |
| SunOS 5.5/{gcc,SunPro cc}/POSIX                            | (nothing)                                       |
| DEC OSF/1 3.x/cc/DCE<br>(butenhof@zko.dec.com)             | -threads                                        |
| Digital UNIX 4.x/cc/DCE<br>(butenhof@zko.dec.com)          | -threads                                        |
| Digital UNIX 4.x/cc/POSIX<br>(butenhof@zko.dec.com)        | -pthread                                        |
| AIX 4.1.4/cc_r/d7<br>(buhrt@iquest.net)                    | (nothing)                                       |
| AIX 4.1.4/cc_r4/DCE<br>(buhrt@iquest.net)                  | (nothing)                                       |
| IRIX 6.2/cc/POSIX<br>(robertl@cwil.nl)                     | (nothing)                                       |

Linker (ld) libraries and flags for threads  
.....

| OS/threads                                       | Libraries/switches for use with threads |
|--------------------------------------------------|-----------------------------------------|
| SunOS 5.{1-5}/solaris                            | -lthread                                |
| SunOS 5.5/POSIX                                  | -lpthread                               |
| DEC OSF/1 3.x/DCE<br>(butenhof@zko.dec.com)      | -lpthreads -lmach -lc_r -lc             |
| Digital UNIX 4.x/DCE<br>(butenhof@zko.dec.com)   | -lpthreads -lpthread -lmach -lexc -lc   |
| Digital UNIX 4.x/POSIX<br>(butenhof@zko.dec.com) | -lpthread -lmach -lexc -lc              |
| AIX 4.1.4/{draft7,DCE}<br>(buhrt@iquest.net)     | (nothing)                               |
| IRIX 6.2/POSIX<br>(jph@emilia.engr.sgi.com)      | -lpthread                               |

Building a shared libpython  
-----

Starting with Python 2.3, the majority of the interpreter can be built into a shared library, which can then be used by the interpreter executable, and by applications embedding Python. To enable this feature, configure with `--enable-shared`.

If you enable this feature, the same object files will be used to create a static library. In particular, the static library will contain object files using position-independent code (PIC) on platforms where PIC flags are needed for the shared library.

Configuring additional built-in modules

-----

Starting with Python 2.1, the setup.py script at the top of the source distribution attempts to detect which modules can be built and automatically compiles them. Autodetection doesn't always work, so you can still customize the configuration by editing the Modules/Setup file; but this should be considered a last resort. The rest of this section only applies if you decide to edit the Modules/Setup file. You also need this to enable static linking of certain modules (which is needed to enable profiling on some systems).

This file is initially copied from Setup.dist by the configure script; if it does not exist yet, create it by copying Modules/Setup.dist yourself (configure will never overwrite it). Never edit Setup.dist -- always edit Setup or Setup.local (see below). Read the comments in the file for information on what kind of edits are allowed. When you have edited Setup in the Modules directory, the interpreter will automatically be rebuilt the next time you run make (in the toplevel directory).

Many useful modules can be built on any Unix system, but some optional modules can't be reliably autodetected. Often the quickest way to determine whether a particular module works or not is to see if it will build: enable it in Setup, then if you get compilation or link errors, disable it -- you're either missing support or need to adjust the compilation and linking parameters for that module.

On SGI IRIX, there are modules that interface to many SGI specific system libraries, e.g. the GL library and the audio hardware. These modules will not be built by the setup.py script.

In addition to the file Setup, you can also edit the file Setup.local. (the makesetup script processes both). You may find it more convenient to edit Setup.local and leave Setup alone. Then, when installing a new Python version, you can copy your old Setup.local file.

#### Setting the optimization/debugging options

-----

If you want or need to change the optimization/debugging options for the C compiler, assign to the OPT variable on the toplevel make command; e.g. "make OPT=-g" will build a debugging version of Python on most platforms. The default is OPT=-O; a value for OPT in the environment when the configure script is run overrides this default (likewise for CC; and the initial value for LIBS is used as the base set of libraries to link with).

When compiling with GCC, the default value of OPT will also include the -Wall and -Wstrict-prototypes options.

Additional debugging code to help debug memory management problems can be enabled by using the --with-pydebug option to the configure script.

For flags that change binary compatibility, use the EXTRA\_CFLAGS variable.

#### Profiling

-----

If you want C profiling turned on, the easiest way is to run configure with the CC environment variable to the necessary compiler invocation. For example, on Linux, this works for profiling using gprof(1):

```
CC="gcc -pg" ./configure
```

Note that on Linux, gprof apparently does not work for shared libraries. The Makefile/Setup mechanism can be used to compile and link most extension modules statically.

#### Coverage checking

-----

For C coverage checking using gcov, run "make coverage". This will build a Python binary with profiling activated, and a ".gcno" and ".gcda" file for every source file compiled with that option. With the built binary, now run the code whose coverage you want to check. Then, you can see coverage statistics for each individual source file by running gcov, e.g.

```
gcov -o Modules zlibmodule
```

This will create a "zlibmodule.c.gcov" file in the current directory containing coverage info for that source file.

This works only for source files statically compiled into the executable; use the Makefile/Setup mechanism to compile and link extension modules you want to coverage-check statically.

#### Testing

-----

To test the interpreter, type "make test" in the top-level directory. This runs the test set twice (once with no compiled files, once with the compiled files left by the previous test run). The test set produces some output. You can generally ignore the messages about skipped tests due to optional features which can't be imported. If a message is printed about a failed test or a traceback or core dump is produced, something is wrong. On some Linux systems (those that are not yet using glibc 6), test\_strftime fails due to a non-standard implementation of strftime() in the C library. Please ignore this, or upgrade to glibc version 6.

By default, tests are prevented from overusing resources like disk space and memory. To enable these tests, run "make testall".

IMPORTANT: If the tests fail and you decide to mail a bug report, \*don't\* include the output of "make test". It is useless. Run the failing test manually, as follows:

```
./python Lib/test/regtest.py -v test_whatever
```

(substituting the top of the source tree for '.' if you built in a different directory). This runs the test in verbose mode.

#### Installing

-----

To install the Python binary, library modules, shared library modules (see below), include files, configuration files, and the manual page, just type

```
make install
```

This will install all platform-independent files in subdirectories of the directory given with the `--prefix` option to configure or to the `'prefix'` Make variable (default `/usr/local`). All binary and other platform-specific files will be installed in subdirectories if the directory given by `--exec-prefix` or the `'exec_prefix'` Make variable (defaults to the `--prefix` directory) is given.

If `DESTDIR` is set, it will be taken as the root directory of the installation, and files will be installed into `$(DESTDIR)$(prefix)`, `$(DESTDIR)$(exec_prefix)`, etc.

All subdirectories created will have Python's version number in their name, e.g. the library modules are installed in `"/usr/local/lib/python<version>/"` by default, where `<version>` is the `<major>.<minor>` release number (e.g. `"2.1"`). The Python binary is installed as `"python<version>"` and a hard link named `"python"` is created. The only file not installed with a version number in its name is the manual page, installed as `"/usr/local/man/man1/python.1"` by default.

If you want to install multiple versions of Python see the section below entitled "Installing multiple versions".

The only thing you may have to install manually is the Python mode for Emacs found in `Misc/python-mode.el`. (But then again, more recent versions of Emacs may already have it.) Follow the instructions that came with Emacs for installation of site-specific files.

On Mac OS X, if you have configured Python with `--enable-framework`, you should use `"make frameworkinstall"` to do the installation. Note that this installs the Python executable in a place that is not normally on your `PATH`, you may want to set up a symlink in `/usr/local/bin`.

#### Installing multiple versions

-----

On Unix and Mac systems if you intend to install multiple versions of Python using the same installation prefix (`--prefix` argument to the configure script) you must take care that your primary python executable is not overwritten by the installation of a different version. All files and directories installed using `"make altinstall"` contain the major and minor version and can thus live side-by-side. `"make install"` also creates `$(prefix)/bin/python` which refers to `$(prefix)/bin/pythonX.Y`. If you intend to install multiple versions using the same prefix you must decide which version (if any) is your "primary" version. Install that version using `"make install"`. Install all other versions using `"make altinstall"`.

For example, if you want to install Python 2.5, 2.6 and 3.0 with 2.6 being the primary version, you would execute `"make install"` in your 2.6 build directory and `"make altinstall"` in the others.



Configuration options and variables  
-----

Some special cases are handled by passing options to the configure script.

WARNING: if you rerun the configure script with different options, you must run "make clean" before rebuilding. Exceptions to this rule: after changing --prefix or --exec-prefix, all you need to do is remove Modules/getpath.o.

--with(out)-gcc: The configure script uses gcc (the GNU C compiler) if it finds it. If you don't want this, or if this compiler is installed but broken on your platform, pass the option --without-gcc. You can also pass "CC=cc" (or whatever the name of the proper C compiler is) in the environment, but the advantage of using --without-gcc is that this option is remembered by the config.status script for its --recheck option.

--prefix, --exec-prefix: If you want to install the binaries and the Python library somewhere else than in /usr/local/{bin,lib}, you can pass the option --prefix=DIRECTORY; the interpreter binary will be installed as DIRECTORY/bin/python and the library files as DIRECTORY/lib/python/\*. If you pass --exec-prefix=DIRECTORY (as well) this overrides the installation prefix for architecture-dependent files (like the interpreter binary). Note that --prefix=DIRECTORY also affects the default module search path (sys.path), when Modules/config.c is compiled. Passing make the option prefix=DIRECTORY (and/or exec\_prefix=DIRECTORY) overrides the prefix set at configuration time; this may be more convenient than re-running the configure script if you change your mind about the install prefix.

--with-readline: This option is no longer supported. GNU readline is automatically enabled by setup.py when present.

--with-threads: On most Unix systems, you can now use multiple threads, and support for this is enabled by default. To disable this, pass --with-threads=no. If the library required for threads lives in a peculiar place, you can use --with-thread=DIRECTORY. IMPORTANT: run "make clean" after changing (either enabling or disabling) this option, or you will get link errors! Note: for DEC Unix use --with-dec-threads instead.

--with-sgi-dl: On SGI IRIX 4, dynamic loading of extension modules is supported by the "dl" library by Jack Jansen, which is ftp'able from ftp://ftp.cwi.nl/pub/dynload/dl-1.6.tar.Z. This is enabled (after you've ftp'ed and compiled the dl library) by passing --with-sgi-dl=DIRECTORY where DIRECTORY is the absolute pathname of the dl library. (Don't bother on IRIX 5, it already has dynamic linking using SunOS style shared libraries.) THIS OPTION IS UNSUPPORTED.

--with-dl-dld: Dynamic loading of modules is rumored to be supported on some other systems: VAX (Ultrix), Sun3 (SunOS 3.4), Sequent Symmetry (Dynix), and Atari ST. This is done using a combination of the GNU dynamic loading package (ftp://ftp.cwi.nl/pub/dynload/dl-dld-1.1.tar.Z) and an

emulation of the SGI dl library mentioned above (the emulation can be found at <ftp://ftp.cwi.nl/pub/dynload/dld-3.2.3.tar.Z>). To enable this, ftp and compile both libraries, then call configure, passing it the option `--with-dl-dld=DL_DIRECTORY,DLD_DIRECTORY` where `DL_DIRECTORY` is the absolute pathname of the dl emulation library and `DLD_DIRECTORY` is the absolute pathname of the GNU dld library. (Don't bother on SunOS 4 or 5, they already have dynamic linking using shared libraries.) THIS OPTION IS UNSUPPORTED.

`--with-libm, --with-libc`: It is possible to specify alternative versions for the Math library (default `-lm`) and the C library (default the empty string) using the options `--with-libm=STRING` and `--with-libc=STRING`, respectively. For example, if your system requires that you pass `-lc_s` to the C compiler to use the shared C library, you can pass `--with-libc=-lc_s`. These libraries are passed after all other libraries, the C library last.

`--with-libs='libs'`: Add 'libs' to the LIBS that the python interpreter is linked against.

`--with-cxx-main=<compiler>`: If you plan to use C++ extension modules, then -- on some platforms -- you need to compile python's `main()` function with the C++ compiler. With this option, make will use `<compiler>` to compile `main()` \*and\* to link the python executable. It is likely that the resulting executable depends on the C++ runtime library of `<compiler>`. (The default is `--without-cxx-main`.)

There are platforms that do not require you to build Python with a C++ compiler in order to use C++ extension modules. E.g., x86 Linux with ELF shared binaries and GCC 3.x, 4.x is such a platform. We recommend that you configure Python `--without-cxx-main` on those platforms because a mismatch between the C++ compiler version used to build Python and to build a C++ extension module is likely to cause a crash at runtime.

The Python installation also stores the variable `CXX` that determines, e.g., the C++ compiler `distutils` calls by default to build C++ extensions. If you set `CXX` on the configure command line to any string of non-zero length, then configure won't change `CXX`. If you do not preset `CXX` but pass `--with-cxx-main=<compiler>`, then configure sets `CXX=<compiler>`. In all other cases, configure looks for a C++ compiler by some common names (`c++`, `g++`, `gcc`, `CC`, `cxx`, `cc++`, `cl`) and sets `CXX` to the first compiler it finds. If it does not find any C++ compiler, then it sets `CXX=""`.

Similarly, if you want to change the command used to link the python executable, then set `LINKCC` on the configure command line.

`--with-pydebug`: Enable additional debugging code to help track down memory management problems. This allows printing a list of all live objects when the interpreter terminates.

`--with(out)-universal-newlines`: enable reading of text files with foreign newline convention (default: enabled). In other words, any of `\r`, `\n` or `\r\n` is acceptable as end-of-line character.

If enabled import and execfile will automatically accept any newline in files. Python code can open a file with `open(file, 'U')` to read it in universal newline mode. THIS OPTION IS UNSUPPORTED.

--with-tsc: Profile using the Pentium timestamping counter (TSC).

--with-system-ffi: Build the `_ctypes` extension module using an ffi library installed on the system.

--with-dbmliborder=db1:db2:...: Specify the order that backends for the dbm extension are checked. Valid value is a colon separated string with the backend names ``ndbm'`, ``gdbm'` and ``bdb'`.

Building for multiple architectures (using the VPATH feature)

-----

If your file system is shared between multiple architectures, it usually is not necessary to make copies of the sources for each architecture you want to support. If the make program supports the VPATH feature, you can create an empty build directory for each architecture, and in each directory run the configure script (on the appropriate machine with the appropriate options). This creates the necessary subdirectories and the Makefiles therein. The Makefiles contain a line `VPATH=...` which points to a directory containing the actual sources. (On SGI systems, use `"smake -J1"` instead of `"make"` if you use VPATH -- don't try gnumake.)

For example, the following is all you need to build a minimal Python in `/usr/tmp/python` (assuming `~guido/src/python` is the toplevel directory and you want to build in `/usr/tmp/python`):

```
$ mkdir /usr/tmp/python
$ cd /usr/tmp/python
$ ~guido/src/python/configure
[...]
$ make
[...]
$
```

Note that configure copies the original Setup file to the build directory if it finds no Setup file there. This means that you can edit the Setup file for each architecture independently. For this reason, subsequent changes to the original Setup file are not tracked automatically, as they might overwrite local changes. To force a copy of a changed original Setup file, delete the target Setup file. (The `makesetup` script supports multiple input files, so if you want to be fancy you can change the rules to create an empty `Setup.local` if it doesn't exist and run it with arguments `$(srcdir)/Setup Setup.local`; however this assumes that you only need to add modules.)

Also note that you can't use a workspace for VPATH and non VPATH builds. The object files left behind by one version confuses the other.

Building on non-UNIX systems

-----

For Windows (2000/NT/ME/98/95), assuming you have MS VC++ 7.1, the project files are in `PCbuild`, the workspace is `pbuild.dsw`. See `PCbuild\readme.txt` for detailed instructions.

For other non-Unix Windows compilers, in particular MS VC++ 6.0 and for OS/2, enter the directory "PC" and read the file "readme.txt".

For the Mac, a separate source distribution will be made available, for use with the CodeWarrior compiler. If you are interested in Mac development, join the PythonMac Special Interest Group (<http://www.python.org/sigs/pythonmac-sig/>, or send email to [pythonmac-sig-request@python.org](mailto:pythonmac-sig-request@python.org)).

Of course, there are also binary distributions available for these platforms -- see <http://www.python.org/>.

To port Python to a new non-UNIX system, you will have to fake the effect of running the configure script manually (for Mac and PC, this has already been done for you). A good start is to copy the file `pyconfig.h.in` to `pyconfig.h` and edit the latter to reflect the actual configuration of your system. Most symbols must simply be defined as 1 only if the corresponding feature is present and can be left alone otherwise; however the `*_t` type symbols must be defined as some variant of `int` if they need to be defined at all.

For all platforms, it's important that the build arrange to define the preprocessor symbol `NDEBUG` on the compiler command line in a release build of Python (else `assert()` calls remain in the code, hurting release-build performance). The Unix, Windows and Mac builds already do this.

#### Miscellaneous issues

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#### Emacs mode

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There's an excellent Emacs editing mode for Python code; see the file `Misc/python-mode.el`. Originally written by the famous Tim Peters, it is now maintained by the equally famous Barry Warsaw. The latest version, along with various other contributed Python-related Emacs goodies, is online at <http://launchpad.net/python-mode/>.

#### Tkinter

-----

The `setup.py` script automatically configures this when it detects a usable Tcl/Tk installation. This requires Tcl/Tk version 8.0 or higher.

For more Tkinter information, see the Tkinter Resource page: <http://www.python.org/topics/tkinter/>

There are demos in the `Demo/tkinter` directory.

Note that there's a Python module called "Tkinter" (capital T) which lives in `Lib/lib-tk/Tkinter.py`, and a C module called `"_tkinter"` (lower case t and leading underscore) which lives in `Modules/_tkinter.c`. Demos and normal Tk applications import only the Python Tkinter module -- only the latter imports the C `_tkinter` module. In order to find the C `_tkinter` module, it must be compiled and linked into the Python interpreter -- the `setup.py` script does this. In order to find the Python Tkinter module, `sys.path` must be

set correctly -- normal installation takes care of this.

#### Distribution structure

-----

Most subdirectories have their own README files. Most files have comments.

|                 |                                                                 |
|-----------------|-----------------------------------------------------------------|
| Demo/           | Demonstration scripts, modules and programs                     |
| Doc/            | Documentation sources (reStructuredText)                        |
| Grammar/        | Input for the parser generator                                  |
| Include/        | Public header files                                             |
| LICENSE         | Licensing information                                           |
| Lib/            | Python library modules                                          |
| Mac/            | Macintosh specific resources                                    |
| Makefile.pre.in | Source from which config.status creates the Makefile.pre        |
| Misc/           | Miscellaneous useful files                                      |
| Modules/        | Implementation of most built-in modules                         |
| Objects/        | Implementation of most built-in object types                    |
| PC/             | Files specific to PC ports (DOS, Windows, OS/2)                 |
| PCbuild/        | Build directory for Microsoft Visual C++                        |
| Parser/         | The parser and tokenizer and their input handling               |
| Python/         | The byte-compiler and interpreter                               |
| README          | The file you're reading now                                     |
| RISCOS/         | Files specific to RISC OS port                                  |
| Tools/          | Some useful programs written in Python                          |
| pyconfig.h.in   | Source from which pyconfig.h is created (GNU autoheader output) |
| configure       | Configuration shell script (GNU autoconf output)                |
| configure.ac    | Configuration specification (input for GNU autoconf)            |
| install-sh      | Shell script used to install files                              |
| setup.py        | Python script used to build extension modules                   |

The following files will (may) be created in the toplevel directory by the configuration and build processes:

|                      |                                                           |
|----------------------|-----------------------------------------------------------|
| Makefile             | Build rules                                               |
| Makefile.pre         | Build rules before running Modules/makesetup              |
| buildno              | Keeps track of the build number                           |
| config.cache         | Cache of configuration variables                          |
| pyconfig.h           | Configuration header                                      |
| config.log           | Log from last configure run                               |
| config.status        | Status from last run of the configure script              |
| getbuildinfo.o       | Object file from Modules/getbuildinfo.c                   |
| libpython<version>.a | The library archive                                       |
| python               | The executable interpreter                                |
| reflog.txt           | Output from running the regression suite with the -R flag |
| tags, TAGS           | Tags files for vi and Emacs                               |

That's all, folks!

-----

--Guido van Rossum (home page: <http://www.python.org/~guido/>)

## Python-libs

### A. HISTORY OF THE SOFTWARE

=====

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |
| 2.2.2          | 2.2.1        | 2002      | PSF        | yes                 |
| 2.2.3          | 2.2.2        | 2003      | PSF        | yes                 |
| 2.3            | 2.2.2        | 2002-2003 | PSF        | yes                 |
| 2.3.1          | 2.3          | 2002-2003 | PSF        | yes                 |
| 2.3.2          | 2.3.1        | 2002-2003 | PSF        | yes                 |
| 2.3.3          | 2.3.2        | 2002-2003 | PSF        | yes                 |
| 2.3.4          | 2.3.3        | 2004      | PSF        | yes                 |
| 2.3.5          | 2.3.4        | 2005      | PSF        | yes                 |
| 2.4            | 2.3          | 2004      | PSF        | yes                 |
| 2.4.1          | 2.4          | 2005      | PSF        | yes                 |
| 2.4.2          | 2.4.1        | 2005      | PSF        | yes                 |
| 2.4.3          | 2.4.2        | 2006      | PSF        | yes                 |
| 2.4.4          | 2.4.3        | 2006      | PSF        | yes                 |
| 2.5            | 2.4          | 2006      | PSF        | yes                 |
| 2.5.1          | 2.5          | 2007      | PSF        | yes                 |
| 2.5.2          | 2.5.1        | 2008      | PSF        | yes                 |
| 2.5.3          | 2.5.2        | 2008      | PSF        | yes                 |
| 2.6            | 2.5          | 2008      | PSF        | yes                 |
| 2.6.1          | 2.6          | 2008      | PSF        | yes                 |
| 2.6.2          | 2.6.1        | 2009      | PSF        | yes                 |
| 2.6.3          | 2.6.2        | 2009      | PSF        | yes                 |

|       |       |      |     |     |
|-------|-------|------|-----|-----|
| 2.6.4 | 2.6.3 | 2009 | PSF | yes |
| 2.6.5 | 2.6.4 | 2010 | PSF | yes |
| 2.7   | 2.6   | 2010 | PSF | yes |

## Footnotes:

- (1) GPL-compatible doesn't mean that we're distributing Python under the GPL. All Python licenses, unlike the GPL, let you distribute a modified version without making your changes open source. The GPL-compatible licenses make it possible to combine Python with other software that is released under the GPL; the others don't.
- (2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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## python-xmlsec

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## python3-saml

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=====

gemu has the following 4th party dependencies :

```
seabios-bin 1.11.0-2
sgabios-bin 0.20110622svn-4
ipxe-roms-gemu 20180825-3.git133f4c.e17
python 2.7.5-89.0.1.e17
```

=====

4th party 1: seabios-bin

<https://github.com/coreboot/seabios>

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Version 3, 29 June 2007

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 as a successor of a language called ABC. Guido remains Python's  
 principal author, although it includes many contributions from others.  
 In 1995, Guido continued his work on Python at the Corporation for  
 National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>)  
 in Reston, Virginia where he released several versions of the  
 software.

In May 2000, Guido and the Python core development team moved to  
 BeOpen.com to form the BeOpen PythonLabs team. In October of the same  
 year, the PythonLabs team moved to Digital Creations (now Zope  
 Corporation, see <http://www.zope.com>). In 2001, the Python Software  
 Foundation (PSF, see <http://www.python.org/psf/>) was formed, a  
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All Python releases are Open Source (see <http://www.opensource.org> for  
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| Release        | Derived<br>from | Year      | Owner | GPL-<br>compatible? (1) |
|----------------|-----------------|-----------|-------|-------------------------|
| 0.9.0 thru 1.2 |                 | 1991-1995 | CWI   | yes                     |
| 1.3 thru 1.5.2 | 1.2             | 1995-1999 | CNRI  | yes                     |

|       |           |           |            |         |
|-------|-----------|-----------|------------|---------|
| 1.6   | 1.5.2     | 2000      | CNRI       | no      |
| 2.0   | 1.6       | 2000      | BeOpen.com | no      |
| 1.6.1 | 1.6       | 2001      | CNRI       | yes (2) |
| 2.1   | 2.0+1.6.1 | 2001      | PSF        | no      |
| 2.0.1 | 2.0+1.6.1 | 2001      | PSF        | yes     |
| 2.1.1 | 2.1+2.0.1 | 2001      | PSF        | yes     |
| 2.2   | 2.1.1     | 2001      | PSF        | yes     |
| 2.1.2 | 2.1.1     | 2002      | PSF        | yes     |
| 2.1.3 | 2.1.2     | 2002      | PSF        | yes     |
| 2.2.1 | 2.2       | 2002      | PSF        | yes     |
| 2.2.2 | 2.2.1     | 2002      | PSF        | yes     |
| 2.2.3 | 2.2.2     | 2003      | PSF        | yes     |
| 2.3   | 2.2.2     | 2002-2003 | PSF        | yes     |
| 2.3.1 | 2.3       | 2002-2003 | PSF        | yes     |
| 2.3.2 | 2.3.1     | 2002-2003 | PSF        | yes     |
| 2.3.3 | 2.3.2     | 2002-2003 | PSF        | yes     |
| 2.3.4 | 2.3.3     | 2004      | PSF        | yes     |
| 2.3.5 | 2.3.4     | 2005      | PSF        | yes     |
| 2.4   | 2.3       | 2004      | PSF        | yes     |
| 2.4.1 | 2.4       | 2005      | PSF        | yes     |
| 2.4.2 | 2.4.1     | 2005      | PSF        | yes     |
| 2.4.3 | 2.4.2     | 2006      | PSF        | yes     |
| 2.5   | 2.4       | 2006      | PSF        | yes     |
| 2.7   | 2.6       | 2010      | PSF        | yes     |

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## qemu-kvm

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cowboy , v2.6.1,

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exometer\_slide.erl

-----

%% This file is a copy of exometer\_slide.erl from [https://github.com/Feuerlabs/exometer\\_core](https://github.com/Feuerlabs/exometer_core),

%% with the following modifications:

%%

%% 1) The elements are tuples of numbers

%%

%% 2) Only one element for each expected interval point is added, intermediate values are discarded. Thus, if we have a window of 60s and interval of 5s, at max 12 elements

%% are stored.

%%

%% 3) Additions can be provided as increments to the last value stored

%%

%% 4) sum/1 implements the sum of several slides, generating a new timestamp sequence based

%% on the given intervals. Elements on each window are added to the closest interval point.

%%

%% Original commit: [https://github.com/Feuerlabs/exometer\\_core/commit/2759edc804211b5245867b32c9a20c8fe1d93441](https://github.com/Feuerlabs/exometer_core/commit/2759edc804211b5245867b32c9a20c8fe1d93441)

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%%

%% @author Tony Rogvall <[tony@rogvall.se](mailto:tony@rogvall.se)>

%% @author Ulf Wiger <[ulf@feuerlabs.com](mailto:ulf@feuerlabs.com)>

%% @author Magnus Feuer <[magnus@feuerlabs.com](mailto:magnus@feuerlabs.com)>

%%

%% @doc Efficient sliding-window buffer

%%



```
%% Initial implementation: 29 Sep 2009 by Tony Rogvall
%%
%% This module implements an efficient sliding window, maintaining
%% two lists - a primary and a secondary. Values are paired with a
%% timestamp (millisecond resolution, see `timestamp/0')
%% and prepended to the primary list. When the time span between the oldest
%% and the newest entry in the primary list exceeds the given window size,
%% the primary list is shifted into the secondary list position, and the
%% new entry is added to a new (empty) primary list.
%%
%% The window can be converted to a list using `to_list/1'.
%% @end
%%
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```
include/ruby/onigmo.h:
include/ruby/oniguruma.h:
regcomp.c:
regenc.c:
regenc.h:
regerror.c:
regexec.c:
regint.h:
regparse.c:
regparse.h:
enc/ascii.c:
enc/big5.c:
enc/cp949.c:
enc/emacs_mule.c:
enc/encdb.c:
enc/euc_jp.c:
enc/euc_kr.c:
enc/euc_tw.c:
enc/gb18030.c:
enc/gb2312.c:
enc/gbk.c:
enc/iso_8859_1.c:
enc/iso_8859_10.c:
enc/iso_8859_11.c:
enc/iso_8859_13.c:
enc/iso_8859_14.c:
enc/iso_8859_15.c:
enc/iso_8859_16.c:
enc/iso_8859_2.c:
enc/iso_8859_3.c:
enc/iso_8859_4.c:
enc/iso_8859_5.c:
enc/iso_8859_6.c:
enc/iso_8859_7.c:
enc/iso_8859_8.c:
enc/iso_8859_9.c:
enc/koi8_r.c:
enc/koi8_u.c:
enc/shift_jis.c:
enc/unicode.c:
enc/us_ascii.c:
enc/utf_16be.c:
enc/utf_16le.c:
enc/utf_32be.c:
enc/utf_32le.c:
enc/utf_8.c:
enc/windows_1251.c:
```

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enc/trans/GB/UCS%GB12345.src:  
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enc/trans/JIS/JISX0201-KANA%UCS.src:
enc/trans/JIS/JISX0208@1990%UCS.src:
enc/trans/JIS/JISX0212%UCS.src:
enc/trans/JIS/UCS%JISX0201-KANA.src:
enc/trans/JIS/UCS%JISX0208@1990.src:
enc/trans/JIS/UCS%JISX0212.src:
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enc/trans/JIS/JISX0213-1%UCS@SIP.src:
enc/trans/JIS/JISX0213-2%UCS@BMP.src:
enc/trans/JIS/JISX0213-2%UCS@SIP.src:
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enc/trans/JIS/UCS@BMP%JISX0213-1.src:
enc/trans/JIS/UCS@BMP%JISX0213-2.src:
enc/trans/JIS/UCS@SIP%JISX0213-1.src:
enc/trans/JIS/UCS@SIP%JISX0213-2.src:
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A C-program for MT19937, with initialization improved 2002/2/10.  
Coded by Takuji Nishimura and Makoto Matsumoto.

This is a faster version by taking Shawn Cokus's optimization,  
Matthe Bellew's simplification, Isaku Wada's real version.

Before using, initialize the state by using `init_genrand(seed)`  
or `init_by_array(init_key, key_length)`.

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st.c:
strftime.c:
include/ruby/st.h:
missing/acosh.c:
missing/alloca.c:
missing/dup2.c:
missing/erf.c:
missing/finite.c:
missing/hypot.c:
missing/isinf.c:
missing/isnan.c:
missing/lgamma_r.c:
missing/memcmp.c:
missing/memmove.c:
missing/strchr.c:
missing/streerror.c:
missing/strstr.c:
missing/tgamma.c:
ext/date/date_strftime.c:
ext/digest/sha1/sha1.c:
ext/digest/sha1/sha1.h:
ext/sdbm/_sdbm.c:
ext/sdbm/sdbm.h:
```

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L. Peter Deutsch  
ghost@aladdin.com

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test/psych:

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[github.com/opencontainers/runc](https://github.com/opencontainers/runc)

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-----  
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joda-time:joda-time  
org.apache.commons:commons-lang3  
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Modules:

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slf4j-api  
slf4j-simple  
slf4j-nop  
slf4j-jdk14  
slf4j-log4j12  
slf4j-ext  
jcl-over-slf4j  
log4j-over-slf4j  
jul-to-slf4j  
osgi-over-slf4j  
integration  
slf4j-site  
slf4j-migrator

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4P Dependencies:

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=== This dependency is only used in slf4j-ext

ch.qos.call0n call0n-api  
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```
Fourth Party Dependency :
1.simpleclient
2.simpleclient_common
3.simpleclient_servlet_common
```

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files=`git diff-tree --no-commit-id --name-only --diff-filter=ACMR -r HEAD | \
 egrep '\.(go|proto|py|sh)$' | grep -v '\.pb\.go$'`
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for file in $files; do
 if ! egrep -q "$notice" $file; then
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github.com/Azure/go-autorest/autorest/validation
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golang.org/x/sys
golang.org/x/term
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## uln-yum-mirror

uln-yum-mirror 0.3.0-7

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4th Party Dependencies

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yum-arch 2.2.2

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Vault 1.7.1

<https://github.com/hashicorp/vault>

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----- Copyrights
----- Dependency
@types/glob
----- Copyrights
----- Dependency
@types/hast
----- Copyrights
----- Dependency
@types/html-minifier-terser
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@types/json-schema
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@types/markdown-to-jsx
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@types/minimatch
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@types/minimist
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@types/node
----- Copyrights
----- Dependency
@types/node-fetch
----- Copyrights
----- Dependency
@types/parse5
----- Copyrights
----- Dependency
@types/q
----- Copyrights
----- Dependency
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@types/qs
----- Copyrights
----- Dependency
@types/reach__router
----- Copyrights
----- Dependency
@types/react
----- Copyrights
----- Dependency
@types/react-syntax-highlighter
----- Copyrights
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@types/tapable
----- Copyrights
----- Dependency
@types/uglify-js
----- Copyrights
----- Dependency
@types/webpack
----- Copyrights
----- Dependency
@types/webpack-env
----- Copyrights
----- Dependency
@types/webpack-sources
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----- Dependencies Summary
@types/color-convert
@types/glob
@types/hast
@types/html-minifier-terser
@types/json-schema
@types/markdown-to-jsx
@types/minimatch
@types/minimist
@types/node
@types/node-fetch
@types/pars5
@types/q
@types/qs
@types/reach__router
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@types/braces
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@types/color-name
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@types/fs-extra
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----- Dependency
@types/glob-base
----- Copyrights
----- Dependency
@types/is-function
----- Copyrights
----- Dependency
@types/katex
----- Copyrights
----- Dependency
@types/mdast
----- Copyrights
----- Dependency
@types/micromatch
----- Copyrights
----- Dependency
@types/npmlog
----- Copyrights
----- Dependency
@types/overlayscrollbars
----- Copyrights
----- Dependency
@types/parse-json
----- Copyrights
----- Dependency
@types/pretty-hrtime
----- Copyrights
----- Dependency
@types/prop-types
----- Copyrights
----- Dependency
@types/react-textarea-autosize
----- Copyrights
----- Dependency
@types/rimraf
----- Copyrights
----- Dependency
@types/scheduler
----- Copyrights
----- Dependency
@types/symlink-or-copy
----- Copyrights
----- Dependency
@types/unist
----- Copyrights
----- Dependencies Summary
@types/braces
```

```

@types/color-name
@types/fs-extra
@types/glob-base
@types/is-function
@types/katex
@types/mdast
@types/micromatch
@types/npmlog
@types/overlayscrollbars
@types/parse-json
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----- Copyrights  
----- Dependency  
@csstools/normalize.css  
----- Copyrights  
----- Dependency  
css-blank-pseudo  
----- Copyrights  
----- Dependency  
css-has-pseudo  
----- Copyrights  
----- Dependency  
css-prefers-color-scheme  
----- Copyrights  
----- Dependency  
postcss-browser-comments  
----- Copyrights  
----- Dependency  
postcss-color-functional-notation  
----- Copyrights  
----- Dependency  
postcss-color-mod-function  
----- Copyrights  
----- Dependency  
postcss-dir-pseudo-class  
----- Copyrights  
----- Dependency  
postcss-double-position-gradients  
----- Copyrights  
----- Dependency  
postcss-env-function  
----- Copyrights  
----- Dependency  
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postcss-focus-within  
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----- Dependency  
postcss-gap-properties  
----- Copyrights

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----- Dependency
postcss-image-set-function
----- Copyrights
----- Dependency
postcss-lab-function
----- Copyrights
----- Dependency
postcss-logical
----- Copyrights
----- Dependency
postcss-nesting
----- Copyrights
----- Dependency
postcss-normalize
----- Copyrights
----- Dependency
postcss-overflow-shorthand
----- Copyrights
----- Dependency
postcss-place
----- Copyrights
----- Dependency
postcss-preset-env
----- Copyrights
----- Dependency
postcss-pseudo-class-any-link
----- Copyrights
----- Dependency
sanitize.css
----- Copyrights
----- Dependency
stylelint-media-use-custom-media
----- Copyrights
----- Dependency
stylelint-use-nesting
----- Copyrights
----- Dependency
stylelint-value-no-unknown-custom-properties
----- Copyrights
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@csstools/convert-colors
@csstools/normalize.css
css-blank-pseudo
css-has-pseudo
css-prefers-color-scheme
postcss-browser-comments
postcss-color-functional-notation
postcss-color-mod-function
postcss-dir-pseudo-class
postcss-double-position-gradients
postcss-env-function
postcss-focus-visible
postcss-focus-within
postcss-gap-properties
postcss-image-set-function
postcss-lab-function
postcss-logical
postcss-nesting
postcss-normalize
postcss-overflow-shorthand
postcss-place
```



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postcss-preset-env
postcss-pseudo-class-any-link
sanitize.css
stylelint-media-use-custom-media
stylelint-use-nesting
stylelint-value-no-unknown-custom-properties
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sidebar\_title: <code>/sys/license</code>

description: |-

The `/sys/license` endpoint is used to view and update the license used in Vault.

---

# `/sys/license`

~> \*\*Enterprise Only\*\* - These endpoints require Vault Enterprise.

The `/sys/license` endpoint is used to view and update the license used in Vault.

## Read License

This endpoint returns information about the currently installed license.

```
Method	Path
`GET`	`/sys/license`
Sample Request
```shell-session
$ curl \
  --header "X-Vault-Token: ..." \
  http://127.0.0.1:8200/v1/sys/license
...

### Sample Response
```json
{
 "data": {
 "expiration_time": "2017-11-14T16:34:36.546753-05:00",
 "features": ["UI", "HSM", "Performance Replication", "DR Replication"],
 "license_id": "temporary",
 "start_time": "2017-11-14T16:04:36.546753-05:00"
 },
 "warnings": ["time left on license is 29m33s"]
}
...

```

#### ## Install License

This endpoint is used to install a license into Vault.

```
Method	Path
`PUT`	`/sys/license`
Parameters
- `text` `(string: <required>)` - The text of the license.
- `dr_operation_token` `(string: <required>)` - DR operation token used to authorize this request.
Sample Payload
```json
{
  "text": "01ABCDEFGF..."
}
...

### Sample Request
```shell-session
$ curl \
 --header "X-Vault-Token: ..." \
 --request PUT \
 --data @payload.json \
 http://127.0.0.1:8200/v1/sys/license
...

```

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github.com/hashicorp/go-kms-wrapping  
github.com/hashicorp/go-kms-wrapping/entropy  
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github.com/hashicorp/vault-plugin-auth-centrify  
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cloud.google.com/go/storage
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next-remote-watch
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Autosize Input</h1> <h2><a href=http://github.com/JedWatson/react-input-
autosize>View project on GitHub</h2> <form><div id=app></div></form> <div
class=hint> Type in the text fields above to test the auto-size input. </div>
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yauzl
----- Copyrights
Copyright (c) 2014 Josh Wolfe
----- Dependency
yocto-queue
----- Copyrights
----- Dependency
zwitch
----- Copyrights
Copyright (c) 2016 Titus Wormer <tituswormer@gmail.com>
----- Dependencies Summary
@ampproject/toolbox-optimizer
@babel/code-frame
@babel/compat-data
@babel/core
@babel/generator
@babel/helper-annotate-as-pure
@babel/helper-builder-binary-assignment-operator-visitor
@babel/helper-builder-react-jsx
@babel/helper-builder-react-jsx-experimental
@babel/helper-compilation-targets
@babel/helper-create-class-features-plugin
@babel/helper-create-regexp-features-plugin
@babel/helper-define-map
@babel/helper-define-polyfill-provider
@babel/helper-explode-assignable-expression
@babel/helper-function-name
@babel/helper-get-function-arity
@babel/helper-hoist-variables
@babel/helper-member-expression-to-functions
@babel/helper-module-imports
@babel/helper-module-transforms
@babel/helper-optimise-call-expression
@babel/helper-plugin-utils
@babel/helper-remap-async-to-generator
@babel/helper-replace-supers
@babel/helper-simple-access
@babel/helper-skip-transparent-expression-wrappers
@babel/helper-split-export-declaration
@babel/helper-validator-identifier
@babel/helper-validator-option
@babel/helper-wrap-function
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@babel/highlight
@babel/parser
@babel/plugin-bugfix-v8-spread-parameters-in-optional-chaining
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@babel/plugin-proposal-class-properties
@babel/plugin-proposal-class-static-block
@babel/plugin-proposal-decorators
@babel/plugin-proposal-dynamic-import
@babel/plugin-proposal-export-default-from
@babel/plugin-proposal-export-namespace-from
@babel/plugin-proposal-json-strings
@babel/plugin-proposal-logical-assignment-operators
@babel/plugin-proposal-nullish-coalescing-operator
@babel/plugin-proposal-numeric-separator
@babel/plugin-proposal-object-rest-spread
@babel/plugin-proposal-optional-catch-binding
@babel/plugin-proposal-optional-chaining
@babel/plugin-proposal-private-methods
@babel/plugin-proposal-private-property-in-object
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@babel/plugin-syntax-top-level-await
@babel/plugin-syntax-typescript
@babel/plugin-transform-arrow-functions
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@babel/plugin-transform-block-scoped-functions
@babel/plugin-transform-block-scoping
@babel/plugin-transform-classes
@babel/plugin-transform-computed-properties
@babel/plugin-transform-destructuring
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@babel/plugin-transform-duplicate-keys
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@babel/plugin-transform-modules-commonjs
@babel/plugin-transform-modules-systemjs
@babel/plugin-transform-modules-umd
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@babel/plugin-transform-new-target
@babel/plugin-transform-object-assign
@babel/plugin-transform-object-super
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@babel/plugin-transform-react-jsx-source  
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@babel/plugin-transform-typescript  
@babel/plugin-transform-unicode-escapes  
@babel/plugin-transform-unicode-regex  
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@emotion/unitless  
@emotion/utils  
@emotion/weak-memoize  
@eslint/eslintrc  
@hashicorp/nextjs-scripts  
@hypothesis/create-react-context  
@mapbox/rehype-prism  
@mdx-js/mdx  
@mdx-js/react  
@mdx-js/util  
@mrmlnc/readdir-enhanced



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@next/react-dev-overlay
@next/react-refresh-utils
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@nodelib/fs.walk
@npmcli/move-file
@popperjs/core
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@segment/in-eu
@sindresorhus/is
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@typescript-eslint/experimental-utils
@typescript-eslint/scope-manager
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@typescript-eslint/visitor-keys
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@webassemblyjs/helper-code-frame
@webassemblyjs/helper-fsm
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@webassemblyjs/helper-wasm-bytecode
@webassemblyjs/helper-wasm-section
@webassemblyjs/ieee754
@webassemblyjs/utf8
@webassemblyjs/wasm-edit
@webassemblyjs/wasm-gen
@webassemblyjs/wasm-opt
@webassemblyjs/wasm-parser
@webassemblyjs/wast-parser
@webassemblyjs/wast-printer
abort-controller
accepts
acorn
acorn-jsx
acorn-walk
address
agent-base
aggregate-error
airbnb-js-shims
ajv
ajv-errors
ajv-keywords
algoliasearch-helper
amdefine
anser
ansi-colors
ansi-escape-sequences
ansi-escapes
ansi-regex
ansi-styles
ansi-to-html
app-root-dir
arch
```

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archive-type  
argparse  
arr-diff  
arr-flatten  
arr-union  
array-back  
array-equal  
array-find-index  
array-flatten  
array-includes  
array-union  
array-uniq  
array-unique  
array.prototype.flat  
array.prototype.flatmap  
array.prototype.map  
arrify  
asap  
asn1.js  
assert  
assign-symbols  
ast-types  
astral-regex  
async  
async-disk-cache  
async-limiter  
async-promise-queue  
asynckit  
autoprefixer  
babel-eslint  
babel-loader  
babel-plugin-apply-mdx-type-prop  
babel-plugin-dynamic-import-node  
babel-plugin-ember-data-packages-polyfill  
babel-plugin-ember-modules-api-polyfill  
babel-plugin-emotion  
babel-plugin-extract-import-names  
babel-plugin-macros  
babel-plugin-module-resolver  
babel-plugin-polyfill-corejs2  
babel-plugin-polyfill-corejs3  
babel-plugin-polyfill-regenerator  
bail  
balanced-match  
base  
base64-js  
batch-processor  
better-opn  
bfj  
big.js  
bin-build  
bin-check  
bin-version  
bin-version-check  
bin-wrapper  
binary-extensions  
bl  
bluebird  
bn.js  
body-parser  
boxen

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brace-expansion  
braces  
broccoli-babel-transpiler  
broccoli-concat  
broccoli-debug  
broccoli-funnel  
broccoli-kitchen-sink-helpers  
broccoli-merge-trees  
broccoli-node-api  
broccoli-node-info  
broccoli-output-wrapper  
broccoli-persistent-filter  
broccoli-plugin  
broccoli-source  
broccoli-stew  
brorand  
browserify-aes  
browserify-cipher  
browserify-des  
browserify-rsa  
browserify-zlib  
browserslist  
buffer  
buffer-crc32  
buffer-from  
buffer-xor  
builtin-status-codes  
byline  
bytes  
cache-base  
cache-point  
cacheable-request  
call-bind  
call-me-maybe  
callsites  
camel-case  
camelcase  
camelcase-css  
camelcase-keys  
can-use-dom  
case-sensitive-paths-webpack-plugin  
catharsis  
caw  
ccount  
chalk  
character-entities  
character-entities-html4  
character-entities-legacy  
character-reference-invalid  
chardet  
check-types  
chrome-trace-event  
cipher-base  
class-utils  
classnames  
clean-css  
clean-stack  
clean-up-path  
cli-boxes  
cli-cursor  
cli-table3

cli-truncate  
clipboard  
clone-deep  
clone-regexp  
clone-response  
coa  
code-point-at  
collapse-white-space  
collect-all  
collection-visit  
color  
color-convert  
color-name  
color-string  
colorette  
colors  
combined-stream  
comma-separated-tokens  
command-line-args  
command-line-tool  
command-line-usage  
commander  
common-sequence  
common-tags  
commondir  
component-emitter  
compute-scroll-into-view  
concat-map  
concat-stream  
config-chain  
config-master  
console-browserify  
console-stream  
constants-browserify  
content-disposition  
content-type  
convert-source-map  
cookie  
cookie-signature  
copy-descriptor  
copy-to-clipboard  
core-js  
core-js-compat  
core-js-pure  
core-util-is  
cosmiconfig  
cp-file  
cpy  
create-ecdh  
create-hash  
create-hmac  
create-react-context  
cross-fetch  
cross-spawn  
crypto-browserify  
css-loader  
css-select-base-adapter  
css-tree  
css.escape  
cssesc  
cssso

csstype  
currently-unhandled  
cyclist  
data-uri-to-buffer  
debug  
decamelize  
decamelize-keys  
decode-uri-component  
decompress  
decompress-response  
decompress-tar  
decompress-tarbz2  
decompress-targz  
decompress-unzip  
dedent  
deep-equal  
deep-extend  
deep-is  
deep-object-diff  
deepmerge  
define-properties  
define-property  
delayed-stream  
delegates  
depd  
des.js  
destroy  
detab  
detect-node-es  
detect-port  
detect-port-alt  
diffie-hellman  
dir-glob  
dmd  
dom-converter  
dom-helpers  
dom-serializer  
dom-walk  
domain-browser  
dot-case  
dotenv-defaults  
dotenv-webpack  
download  
downshift  
duplexer  
duplexify  
editions  
ee-first  
element-resize-detector  
elliptic  
ember-cli-babel  
ember-cli-htmlbars  
ember-cli-typescript  
ember-compatibility-helpers  
ember-destroyable-polyfill  
ember-source  
emoji-regex  
emotion-theming  
encodeurl  
end-of-stream  
enhanced-resolve

enquirer  
errno  
error-ex  
error-stack-parser  
es-abstract  
es-array-method-boxes-properly  
es-get-iterator  
es-to-primitive  
es5-shim  
es6-shim  
escalade  
escape-html  
escape-string-regexp  
eslint  
eslint-config-prettier  
eslint-plugin-jsx-ally  
eslint-plugin-react  
eslint-utils  
etag  
event-target-shim  
events  
evp\_bytestokey  
exec-buffer  
execa  
execall  
executable  
expand-brackets  
expand-template  
express  
ext-list  
ext-name  
extend  
extend-shallow  
external-editor  
extglob  
fast-deep-equal  
fast-glob  
fast-json-stable-stringify  
fast-levenshtein  
fast-sourcemap-concat  
fastest-levenshtein  
fault  
fbjs  
fd-slicer  
figures  
file-entry-cache  
file-loader  
file-set  
file-system-cache  
file-type  
filename-reserved-regex  
filenamify  
fill-range  
finalhandler  
find-babel-config  
find-cache-dir  
find-index  
find-replace  
find-up  
find-versions  
fixturify

fixturify-project  
flat-cache  
flatten  
flush-write-stream  
focus-lock  
for-in  
fork-ts-checker-webpack-plugin  
form-data  
formik  
forwarded  
fragment-cache  
fresh  
from2  
fs-constants  
fs-exists-sync  
fs-extra  
fs-merger  
fs-then-native  
fs-updater  
function-bind  
function.prototype.name  
functional-red-black-tree  
functions-have-names  
fuzzysearch  
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get-intrinsic  
get-proxy  
get-stream  
get-value  
github-from-package  
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github.com/BurntSushi/toml  
github.com/DataDog/datadog-go  
github.com/Jeffail/gabs  
github.com/Masterminds/semver  
github.com/armon/go-metrics  
github.com/armon/go-proxyproto  
github.com/armon/go-radix  
github.com/asaskevich/govalidator  
github.com/beorn7/perks  
github.com/bgentry/speakeasy  
github.com/boombuler/barcode  
github.com/briankassouf/jose  
github.com/cenkalti/backoff  
github.com/cenkalti/backoff/v3  
github.com/cespare/xxhash/v2  
github.com/chrismaek/oktasdk-go  
github.com/cloudfoundry-community/go-cfclient  
github.com/dgrijalva/jwt-go/v4  
github.com/fatih/color  
github.com/fatih/structs  
github.com/form3tech-oss/jwt-go  
github.com/fullsailor/pkcs7  
github.com/gammazero/deque  
github.com/gammazero/workerpool  
github.com/go-asn1-ber/asn1-ber  
github.com/go-errors/errors  
github.com/go-ldap/ldap/v3  
github.com/go-ldap/ldif  
github.com/go-stack/stack  
github.com/go-test/deep

github.com/hailocab/go-hostpool  
github.com/hashicorp/go-hclog  
github.com/hashicorp/go-syslog  
github.com/hashicorp/mdns  
github.com/influxdata/influxdb  
github.com/jackc/pgx  
github.com/jeffchao/backoff  
github.com/json-iterator/go  
github.com/kelseyhightower/envconfig  
github.com/kr/pretty  
github.com/kr/text  
github.com/lib/pq  
github.com/linode/linodego  
github.com/matttn/go-colorable  
github.com/matttn/go-ieproxy  
github.com/matttn/go-isatty  
github.com/matttn/go-shellwords  
github.com/mholt/archiver  
github.com/mitchellh/copystructure  
github.com/mitchellh/go-homedir  
github.com/mitchellh/go-testing-interface  
github.com/mitchellh/hashstructure  
github.com/mitchellh/mapstructure  
github.com/mitchellh/pointerstructure  
github.com/mitchellh/reflectwalk  
github.com/natefinch/atomic  
github.com/ncw/swift  
github.com/nicolai86/scaleway-sdk  
github.com/openlyinc/pointy  
github.com/patrickmn/go-cache  
github.com/posener/complete  
github.com/rboyer/safeio  
github.com/renier/xmlrpc  
github.com/ryanuber/columnize  
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github.com/sirupsen/logrus  
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github.com/yuin/gopher-lua  
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global-modules  
global-prefix  
globals  
globalthis  
globby  
globjoin  
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go.uber.org/multierr  
go.uber.org/zap  
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gopkg.in/yaml.v3  
got  
graphql  
graphql-request  
gray-matter  
gzip-size  
handlebars



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hard-rejection  
has  
has-ansi  
has-bigints  
has-flag  
has-glob  
has-symbol-support-x  
has-symbols  
has-to-string-tag-x  
has-value  
has-values  
hash-base  
hash.js  
hast-to-hyperscript  
hast-util-from-parse5  
hast-util-is-element  
hast-util-parse-selector  
hast-util-raw  
hast-util-to-html  
hast-util-to-parse5  
hast-util-to-text  
hast-util-whitespace  
hastscript  
he  
heimdalljs  
heimdalljs-logger  
hmac-drbg  
hoopy  
html-comment-regex  
html-entities  
html-minifier-terser  
html-tags  
html-void-elements  
html-webpack-plugin  
htmlparser2  
http-errors  
https-browserify  
iconv-lite  
iferr  
ignore  
imagemin  
imagemin-mozjpeg  
imagemin-optipng  
imagemin-svgo  
img-loader  
immer  
import-fresh  
import-lazy  
imurmurhash  
indent-string  
indexes-of  
inflection  
inquirer  
internal-slot  
interpret  
into-stream  
invariant  
ip  
ip-regex  
ipaddr.js  
is-absolute-url

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is-alphanumerical  
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is-wsl  
isarray  
iserror  
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isurl  
iterate-iterator  
iterate-value  
jake  
jest-worker

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jquery  
js-cookie  
js-tokens  
js-yaml  
jsdoc-api  
jsdoc-parse  
jsdoc-to-markdown  
jsesc  
json-buffer  
json-parse-better-errors  
json-parse-even-better-errors  
json-schema-traverse  
json-stable-stringify  
json-stable-stringify-without-jsonify  
json5  
jsonfile  
jstz  
jsx-ast-utils  
junk  
katex  
keyv  
kind-of  
klaw  
kleur  
klona  
known-css-properties  
leven  
levenary  
levn  
line-column  
line-reader  
lines-and-columns  
linkify-it  
lint-staged  
listr2  
load-json-file  
loader-runner  
loader-utils  
locate-path  
lodash  
lodash-es  
lodash.\_reinterpolate  
lodash.camelcase  
lodash.debounce  
lodash.foreach  
lodash.memoize  
lodash.merge  
lodash.omit  
lodash.padend  
lodash.pick  
lodash.sortby  
lodash.template  
lodash.templatesettings  
lodash.throttle  
lodash.uniq  
log-symbols  
log-update  
logalot  
longest  
longest-streak  
loose-envify

loud-rejection  
lower-case  
lowercase-keys  
lowligh  
lpad-align  
magic-string  
make-dir  
map-cache  
map-obj  
map-or-similar  
map-visit  
markdown-escapes  
markdown-it  
markdown-table  
markdown-to-jsx  
marked  
mathml-tag-names  
md5.js  
mdast-squeeze-paragraphs  
mdast-util-compact  
mdast-util-definitions  
mdast-util-from-markdown  
mdast-util-math  
mdast-util-to-hast  
mdast-util-to-markdown  
mdast-util-to-string  
mdurl  
media-typer  
memoize-one  
memoizerific  
memory-fs  
memory-streams  
meow  
merge-descriptors  
merge-stream  
merge-trees  
merge2  
methods  
microevent.ts  
micromark  
micromark-extension-math  
micromatch  
miller-rabin  
mime  
mime-db  
mime-types  
mimic-fn  
mimic-response  
min-document  
min-indent  
minimalistic-crypto-utils  
minimist  
minimist-options  
minizlib  
mixin-deep  
mkdirp  
mkdirp-classic  
mkdirp2  
mktemp  
mozjpeg  
ms

nanoid  
nanomatch  
napi-build-utils  
negotiator  
neo-async  
nested-error-stacks  
next  
next-optimized-images  
next-transpile-modules  
nice-try  
no-case  
node-abi  
node-addon-api  
node-fetch  
node-html-parser  
node-libs-browser  
node-modules-regexp  
node-releases  
normalize-html-whitespace  
normalize-path  
normalize-range  
normalize-url  
npm-conf  
npm-run-path  
nprogress  
num2fraction  
number-is-nan  
object-assign  
object-copy  
object-get  
object-hash  
object-inspect  
object-is  
object-keys  
object-to-spawn-args  
object-visit  
object.assign  
object.entries  
object.fromentries  
object.getownpropertydescriptors  
object.pick  
object.values  
on-finished  
onetime  
open  
opener  
optionator  
optipng-bin  
os-browserify  
os-filter-obj  
os-tmpdir  
overlayscrollbars  
p-all  
p-cancelable  
p-event  
p-filter  
p-finally  
p-is-promise  
p-limit  
p-locate  
p-map

p-map-series  
p-pipe  
p-reduce  
p-timeout  
p-try  
pako  
parallel-transform  
param-case  
parent-module  
parse-entities  
parse-json  
parse-static-imports  
parse5  
parseurl  
pascal-case  
pascalcase  
path-browserify  
path-dirname  
path-exists  
path-is-absolute  
path-key  
path-parse  
path-posix  
path-root  
path-root-regex  
path-to-regexp  
path-type  
pbkdf2  
pend  
picomatch  
pify  
pinkie  
pinkie-promise  
pirates  
pkg-conf  
pkg-dir  
pkg-up  
platform  
please-upgrade-node  
pnp-webpack-plugin  
polished  
posix-character-classes  
postcss  
postcss-attribute-case-insensitive  
postcss-color-hex-alpha  
postcss-color-rebeccapurple  
postcss-custom-media  
postcss-custom-properties  
postcss-custom-selectors  
postcss-flexbugs-fixes  
postcss-font-variant  
postcss-html  
postcss-initial  
postcss-less  
postcss-loader  
postcss-media-minmax  
postcss-modules-local-by-default  
postcss-page-break  
postcss-replace-overflow-wrap  
postcss-resolve-nested-selector  
postcss-safe-parser

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postcss-sass  
postcss-scss  
postcss-selector-matches  
postcss-selector-not  
postcss-selector-parser  
postcss-sorting  
postcss-syntax  
postcss-value-parser  
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prebuild-install  
prelude-ls  
prepend-http  
prettier  
pretty-error  
pretty-hrtime  
prismjs  
private  
process  
progress  
promise  
promise-map-series  
promise-polyfill  
promise.allsettled  
promise.prototype.finally  
prompts  
prop-types  
property-information  
proxy-addr  
prr  
public-encrypt  
pump  
pumpify  
punycode  
q  
query-string  
querystring  
querystring-es3  
queue-microtask  
quick-lru  
quick-temp  
ramda  
randombytes  
randomfill  
range-parser  
raw-body  
raw-loader  
react  
react-clientside-effect  
react-colorful  
react-dev-utils  
react-dom  
react-draggable  
react-error-overlay  
react-fast-compare  
react-focus-lock  
react-input-autosize  
react-is  
react-lifecycles-compat  
react-popover  
react-popover-tooltip  
react-refresh

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react-sizeme  
react-syntax-highlighter  
react-textarea-autosize  
read-pkg  
read-pkg-up  
readable-stream  
readdirp  
recast  
recursive-readdir  
redent  
reduce-extract  
reduce-flatten  
reduce-unique  
reduce-without  
refractor  
regenerate  
regenerate-unicode-properties  
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regenerator-transform  
regex-not  
regexp.prototype.flags  
regxpp  
regxpu-core  
regjsen  
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remark-rehype  
remark-squeeze-paragraphs  
renderkid  
repeat-element  
repeat-string  
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requizzle  
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resize-observer-polyfill  
resolve  
resolve-from  
resolve-url  
responselike  
restore-cursor  
ret  
reusify  
ripemd160  
rsvp  
run-async  
run-parallel  
safe-buffer  
safe-regex  
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scheduler  
schema-utils  
search-insights  
section-matter  
seek-bzip  
semver-compare  
semver-regex  
semver-truncate



send  
serve-favicon  
serve-static  
set-value  
setimmediate  
sha.js  
shallow-clone  
shallowequal  
shebang-command  
shebang-regex  
shell-quote  
shellwords  
side-channel  
signale  
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simple-get  
simple-swizzle  
simplebar  
simplebar-react  
sisteransi  
slash  
slice-ansi  
slugify  
snapdragon  
snapdragon-node  
snapdragon-util  
sort-array  
sort-keys  
sort-keys-length  
source-list-map  
source-map-resolve  
source-map-support  
sourcemap-codec  
sourcemap-validator  
space-separated-tokens  
spdx-expression-parse  
specificity  
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squeak  
stable  
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stackframe  
stacktrace-parser  
state-toggle  
static-extend  
statuses  
stream-browserify  
stream-connect  
stream-each  
stream-http  
stream-shift  
stream-via  
strict-uri-encode  
string-argv  
string-width  
string.prototype.matchall  
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string.prototype.padstart  
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string\_decoder

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stringify-entities  
strip-ansi  
strip-bom  
strip-bom-string  
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strip-eof  
strip-final-newline  
strip-indent  
strip-json-comments  
strip-outer  
style-loader  
style-to-object  
styled-jsx  
stylelint  
stylelint-config-prettier  
stylelint-config-recommended  
stylelint-config-standard  
stylelint-order  
stylis  
sugarss  
supports-color  
svg-tags  
svgo  
symbol.prototype.description  
symlink-or-copy  
table-layout  
tapable  
tar-fs  
tar-stream  
temp-dir  
temp-path  
tempfile  
term-size  
terser-webpack-plugin  
test-value  
text-table  
throttle-debounce  
through2  
timed-out  
timers-browserify  
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tiny-warning  
tippy.js  
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tmp  
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type-fest  
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typical  
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underscore.string  
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util  
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uuid  
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vary  
vfile

```
vfile-location
vfile-message
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walk-sync
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webpack-bundle-analyzer
webpack-dev-middleware
webpack-filter-warnings-plugin
webpack-hot-middleware
webpack-log
webpack-sources
webpack-virtual-modules
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whatwg-url
which-boxed-primitive
which-pm-runs
widest-line
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## websocket-client-python

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needs-restarting.py
repo-check.py
repo-graph.py
repo-rss.py
repoclosure.py
repo-diff.py
repo manage.py
repoquery.py
reposync.py
repotrack.py
show-changed-rco.py
```

```
verifytree.py
yum-builddep.py
yum-complete-transaction.py
yum-debug-dump.py
yum-debug-restore.py
yum-util-cli-template
yumdownloader.py
yum v3.4.3
yum/callback.py
yum/cli.py
yum/yum-updatesd.py
yum/yumcommands.py
yum/yummain.py
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cloud.google.com/go
github.com/Azure/go-autorest/autorest
github.com/Azure/go-autorest/autorest/adal
github.com/Azure/go-autorest/autorest/date
github.com/Azure/go-autorest/logger
github.com/Azure/go-autorest/tracing
github.com/NYTimes/gziphandler
github.com/cockroachdb/datadriven
github.com/coreos/etcd
github.com/coreos/go-etcd
github.com/coreos/go-oidc
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github.com/coreos/go-systemd
github.com/coreos/pkg
github.com/docker/docker
github.com/docker/go-units
github.com/docker/spdystream
github.com/go-logr/logr
github.com/go-openapi/analysis
github.com/go-openapi/errors
github.com/go-openapi/jsonpointer
github.com/go-openapi/jsonreference
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github.com/go-openapi/runtime
github.com/go-openapi/spec
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github.com/golang/protobuf
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github.com/hpcloud/tail
github.com/json-iterator/go
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github.com/ugorji/go/codec
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tomb - support for clean goroutine termination in Go.

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```
golang.org/x/crypto
golang.org/x/exp
golang.org/x/image
golang.org/x/mobile
golang.org/x/net
golang.org/x/sync
golang.org/x/sys
golang.org/x/text
golang.org/x/time
golang.org/x/tools
golang.org/x/xerrors
```

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github.com/Azure/azure-sdk-for-go

github.com/Azure/go-autorest/autorest

github.com/Azure/go-autorest/autorest/adal

github.com/Azure/go-autorest/autorest/date

github.com/Azure/go-autorest/autorest/to

github.com/Azure/go-autorest/autorest/validation

github.com/Azure/go-autorest/logger

github.com/Azure/go-autorest/tracing

github.com/Venafi/vcert

github.com/aws/aws-sdk-go

github.com/cockroachdb/datadriven

github.com/coreos/etcd

github.com/coreos/go-etcd

github.com/coreos/go-oidc

github.com/coreos/go-semver

github.com/coreos/go-systemd

github.com/coreos/pkg

github.com/docker/docker

github.com/docker/go-units

github.com/docker/spdystream

github.com/go-logr/logr

github.com/go-logr/zapr

github.com/go-openapi/analysis

github.com/go-openapi/errors

github.com/go-openapi/jsonpointer

github.com/go-openapi/jsonreference

github.com/go-openapi/loads

github.com/go-openapi/runtime

github.com/go-openapi/spec

github.com/go-openapi/strfmt

github.com/go-openapi/swag

github.com/go-openapi/validate

github.com/golang/glog

github.com/golang/groupcache

github.com/golang/mock

github.com/google/btree

github.com/google/gofuzz

github.com/google/martian

github.com/google/pprof

github.com/googleapis/gnostic

github.com/gophercloud/gophercloud

github.com/grpc-ecosystem/go-grpc-middleware

github.com/grpc-ecosystem/go-grpc-prometheus

github.com/jonboulle/clockwork

github.com/mattbaird/jsonpatch

github.com/matttproud/golang\_protobuf\_extensions

github.com/modern-go/concurrent

github.com/modern-go/reflect2

github.com/mwitkow/go-conntrack

github.com/oklog/run

```

github.com/pquerna/cachecontrol
github.com/prometheus/client_golang
github.com/prometheus/client_model
github.com/prometheus/common
github.com/prometheus/procfs
github.com/sergi/go-diff
github.com/soheilhy/cmux
github.com/spf13/afero
github.com/spf13/cobra
go.etcd.io/etcd
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gopkg.in/ini.v1
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gopkg.in/yaml.v2
k8s.io/api
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k8s.io/apimachinery
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k8s.io/client-go
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 github.com/PuerkitoBio/urlesc  
 github.com/alecthomas/template  
 github.com/fsnotify/fsnotify  
 github.com/gogo/protobuf  
 github.com/golang/protobuf  
 github.com/golang/snappy  
 github.com/google/go-cmp  
 github.com/google/go-github  
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 github.com/gorilla/mux  
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github.com/Azure/go-autorest/autorest  
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github.com/Azure/go-autorest/autorest/date  
github.com/Azure/go-autorest/autorest/to  
github.com/Azure/go-autorest/autorest/validation  
github.com/Azure/go-autorest/logger  
github.com/Azure/go-autorest/tracing  
github.com/Venafi/vcert  
github.com/aws/aws-sdk-go  
github.com/coreos/go-systemd  
github.com/coreos/pkg  
github.com/docker/spdystream  
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github.com/googleapis/gnostic  
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github.com/grpc-ecosystem/go-grpc-prometheus  
github.com/mattbaird/jsonpatch  
github.com/matttprout/golang\_protobuf\_extensions  
github.com/modern-go/concurrent  
github.com/modern-go/reflect2  
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github.com/prometheus/client\_model  
github.com/prometheus/common  
github.com/prometheus/procfs  
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go.opencensus.io  
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google.golang.org/genproto  
google.golang.org/grpc  
gopkg.in/ini.v1  
gopkg.in/square/go-jose.v2  
gopkg.in/yaml.v2  
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github.com/cpuguy83/go-md2man/v2
github.com/dgrijalva/jwt-go
github.com/emicklei/go-restful
github.com/exponent-io/jsonpath
github.com/fatih/camelcase
github.com/json-iterator/go
```

```

github.com/kr/pretty
github.com/kr/text
github.com/mailru/easyjson
github.com/mitchellh/go-homedir
github.com/mitchellh/go-wordwrap
github.com/mitchellh/mapstructure
github.com/hpcloud/tail
github.com/onsi/ginkgo
github.com/onsi/gomega
github.com/pavel-v-chernykh/keystore-go
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github.com/Azure/go-autorest/autorest
github.com/Azure/go-autorest/autorest/adal
github.com/Azure/go-autorest/autorest/date
github.com/Azure/go-autorest/logger
github.com/Azure/go-autorest/tracing
github.com/docker/spdystream
github.com/go-logr/logr
github.com/go-openapi/jsonpointer
github.com/go-openapi/jsonreference
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github.com/PuerkitoBio/urlesc
github.com/gogo/protobuf
github.com/golang/protobuf
github.com/google/go-cmp

```



```

github.com/google/uuid
github.com/googleapis/gax-go/v2
github.com/imdario/mergo
github.com/jessevdk/go-flags
github.com/spf13/pflag
golang.org/x/crypto
golang.org/x/exp
golang.org/x/lint
golang.org/x/net
golang.org/x/oauth2
golang.org/x/sync
golang.org/x/sys
golang.org/x/text
golang.org/x/time
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github.com/BurntSushi/toml
github.com/client9/misspell
github.com/dgrijalva/jwt-go
github.com/emicklei/go-restful

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github.com/hpcloud/tail
github.com/json-iterator/go
github.com/jstemmer/go-junit-report
github.com/kisielk/errcheck
github.com/kisielk/gotool
github.com/kr/pretty
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github.com/spfl3/pflag
golang.org/x/crypto
golang.org/x/exp
golang.org/x/image
golang.org/x/mobile
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golang.org/x/xerrors

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golang.org/x/image
golang.org/x/mobile
golang.org/x/net
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github.com/kr/pretty
github.com/kr/pty
github.com/kr/text
github.com/mailru/easyjson
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Support for streaming Protocol Buffer messages for the Go language (golang).  
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 github.com/modern-go/concurrent  
 github.com/modern-go/reflect2  
 github.com/mwitkow/go-conntrack  
 github.com/prometheus/client\_golang  
 github.com/prometheus/client\_model  
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github.com/gogo/protobuf
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github.com/go-kit/kit
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github.com/konsorten/go-windows-terminal-sequences
github.com/kr/logfmt
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```

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----- Dependency
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----- Dependency
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```

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----- Dependency
gopkg.in/yaml.v2
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cloud.google.com/go  
 github.com/OneOfOne/xxhash  
 github.com/coreos/etcd  
 github.com/coreos/go-oidc  
 github.com/coreos/go-semver  
 github.com/coreos/go-systemd  
 github.com/coreos/pkg  
 github.com/docker/go-units  
 github.com/go-openapi/analysis  
 github.com/go-openapi/errors  
 github.com/go-openapi/jsonpointer  
 github.com/go-openapi/jsonreference  
 github.com/go-openapi/loads  
 github.com/go-openapi/runtime  
 github.com/go-openapi/spec  
 github.com/go-openapi/strfmt  
 github.com/go-openapi/swag  
 github.com/go-openapi/validate  
 github.com/go-swagger/scan-repo-boundary  
 github.com/golang/glog  
 github.com/golang/groupcache  
 github.com/golang/mock  
 github.com/google/btree  
 github.com/grpc-ecosystem/go-grpc-middleware  
 github.com/grpc-ecosystem/go-grpc-prometheus  
 github.com/jonboulle/clockwork  
 github.com/matttproud/golang\_protobuf\_extensions  
 github.com/mwitkow/go-conntrack  
 github.com/oklog/ulid  
 github.com/pquerna/cachecontrol  
 github.com/prometheus/client\_golang  
 github.com/prometheus/client\_model  
 github.com/prometheus/common  
 github.com/prometheus/procfs  
 github.com/prometheus/tsdb  
 github.com/soheilhy/cmux  
 github.com/spf13/afero  
 go.mongodb.org/mongo-driver  
 google.golang.org/appengine  
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 github.com/spf13/pflag  
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github.com/beorn7/perks
github.com/cespare/xxhash
github.com/client9/misspell
github.com/coreos/bbolt
github.com/dgrijalva/jwt-go
github.com/dgryski/go-sipl3
github.com/go-kit/kit
github.com/go-logfmt/logfmt
github.com/go-openapi/inflect
github.com/go-stack/stack
github.com/kisielk/errcheck
github.com/kisielk/gotool
github.com/konsorten/go-windows-terminal-sequences
github.com/kr/logfmt
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github.com/kr/pty
github.com/kr/text
github.com/mailru/easyjson
github.com/mitchellh/mapstructure
github.com/pelletier/go-toml
github.com/sirupsen/logrus
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github.com/spf13/jwalterweatherman

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github.com/magiconair/properties

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goproperties - properties file decoder for Go

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mgo - MongoDB driver for Go

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golang.org/x/crypto

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@types/react-virtualized-auto-sizer
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@types/react-wait
@types/source-list-map
@types/tapable
@types/uglify-js
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go-zookeeper - Native ZooKeeper client for Go

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cloud.google.com/go/storage  
detect-libc  
diff-match-patch  
fast-text-encoding  
github.com/FZambia/sentinel  
github.com/apache/arrow/go/arrow  
github.com/aws/aws-sdk-go  
github.com/bradfitz/gomemcache  
github.com/deepmap/oapi-codegen  
github.com/go-macaron/binding  
github.com/go-macaron/gzip  
github.com/go-macaron/inject  
github.com/go-macaron/session  
github.com/gogo/googleapis  
github.com/gogo/status  
github.com/golang-sql/civil  
github.com/golang/groupcache  
github.com/gomodule/redigo  
github.com/google/flatbuffers  
github.com/grafana/grafana-plugin-model  
github.com/grafana/grafana-plugin-sdk-go  
github.com/grafana/loki  
github.com/grpc-ecosystem/go-grpc-middleware  
github.com/grpc-ecosystem/go-grpc-prometheus  
github.com/jonboulle/clockwork  
github.com/linkedin/goavro/v2  
github.com/mattermost/xml-roundtrip-validator  
github.com/mattproud/golang\_protobuf\_extensions  
github.com/modern-go/concurrent  
github.com/modern-go/reflect2  
github.com/oklog/run  
github.com/opentracing-contrib/go-stdlib  
github.com/opentracing/opentracing-go  
github.com/prometheus/client\_golang  
github.com/prometheus/client\_model  
github.com/prometheus/common  
github.com/prometheus/procfs  
github.com/prometheus/prometheus  
github.com/rainycape/unidecode  
github.com/russellhaering/goxmldsig  
github.com/sergi/go-diff  
github.com/uber/jaeger-client-go  
github.com/uber/jaeger-lib  
github.com/unknwon/com  
github.com/weaveworks/common  
github.com/weaveworks/promrus  
go.opencensus.io

```

google.golang.org/genproto
google.golang.org/grpc
gopkg.in/ini.v1
gopkg.in/macaron.v1
gopkg.in/square/go-jose.v2
gopkg.in/yaml.v2
grafana
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@emotion/cache
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@emotion/hash
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@emotion/unitless
@emotion/utils
@emotion/weak-memoize
@grafana/slate-react
@reduxjs/toolkit
@torkelo/react-select
abortcontroller-polyfill
acorn
acorn-es7-plugin
add-dom-event-listener
angular
angular-bindonce
angular-native-dragdrop
angular-route
angular-sanitize
ansi-regex
ansi-styles
argparse
arr-diff
arr-flatten
arr-union
array-filter
array-tree-filter
array-unique
asap
assign-symbols
babel-plugin-emotion
babel-plugin-macros
babel-plugin-syntax-jsx
babel-runtime
balanced-match
baron
base
batch-processor
binary-extensions
boxen
brace
brace-expansion
braces
cache-base

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caller-callsite  
caller-path  
callsites  
camelcase  
capture-stack-trace  
chalk  
ci-info  
class-utils  
classnames  
cli-boxes  
clipboard  
code-point-at  
collection-visit  
color-convert  
color-name  
commander  
common-tags  
component-classes  
component-emitter  
component-indexof  
concat-map  
convert-source-map  
copy-descriptor  
copy-to-clipboard  
core-js  
core-util-is  
cosmiconfig  
create-emotion  
create-error-class  
create-react-context  
cross-spawn  
crypto-random-string  
css-animation  
css-in-js-utils  
css-tree  
csstype  
d3-geo  
d3-voronoi  
debug  
decode-uri-component  
deep-diff  
deep-extend  
define-properties  
define-property  
delegates  
direction  
dom-align  
dom-helpers  
dot-prop  
eastasianwidth  
element-resize-detector  
emotion  
empower  
empower-core  
error-ex  
error-stack-parser  
escape-string-regexp  
espurify  
esrever

eventemitter3  
eventsources  
execa  
expand-brackets  
extend-shallow  
extglob  
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fastest-stable-stringify  
fbjs  
file-saver  
fill-range  
for-in  
fragment-cache  
fsevents  
get-document  
get-stream  
get-value  
get-window  
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github.com/VividCortex/mysqlerr  
github.com/benbjohnson/clock  
github.com/beorn7/perks  
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github.com/cheekybits/genny  
github.com/cpuguy83/go-md2man/v2  
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github.com/fatih/color  
github.com/felixge/httpsnoop  
github.com/gchaincl/sqlhooks  
github.com/go-kit/kit  
github.com/go-logfmt/logfmt  
github.com/go-stack/stack  
github.com/gobwas/glob  
github.com/hashicorp/go-hclog  
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github.com/influxdata/line-protocol  
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github.com/yudai/golcs  
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go.uber.org/atomic  
good-listener  
gopkg.in/asn1-ber.v1  
gopkg.in/ldap.v3  
gopkg.in/mail.v2  
gopkg.in/yaml.v3  
got  
gud  
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has-value  
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highlight-words-core  
http-parser-js  
iconv-lite  
immer  
immutable  
import-fresh  
import-lazy  
imurmurhash  
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invariant  
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is-arrayish  
is-binary-path  
is-buffer  
is-ci  
is-data-descriptor  
is-descriptor  
is-directory  
is-extendable  
is-extglob  
is-fullwidth-code-point  
is-glob  
is-hotkey  
is-in-browser  
is-installed-globally  
is-npm  
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is-obj  
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is-plain-object  
is-redirect  
is-retry-allowed  
is-stream  
is-window  
is-windows  
isarray  
isobject  
isomorphic-base64  
isomorphic-fetch  
jquery  
js-tokens  
js-yaml  
json-parse-better-errors  
json3  
kind-of  
latest-version  
lodash

lodash.\_getnative  
lodash.debounce  
lodash.isarguments  
lodash.isarray  
lodash.isequal  
lodash.keys  
lodash.throttle  
loose-envify  
lowercase-keys  
make-dir  
map-cache  
map-visit  
marked  
memoize-one  
micromatch  
minimist  
minizlib  
mixin-deep  
mkdirp  
moment  
ms  
nan  
nanomatch  
needle  
node-fetch  
nodemon  
normalize-path  
npm-run-path  
number-is-nan  
object-assign  
object-copy  
object-keys  
object-visit  
object.pick  
original  
os-homedir  
os-tmpdir  
p-finally  
package-json  
papaparse  
parse-json  
pascalcase  
path-dirname  
path-is-absolute  
path-is-inside  
path-key  
path-parse  
performance-now  
pify  
popper.js  
posix-character-classes  
power-assert  
power-assert-context-formatter  
power-assert-context-reducer-ast  
power-assert-context-traversal  
power-assert-formatter  
power-assert-renderer-assertion  
power-assert-renderer-base  
power-assert-renderer-comparison  
power-assert-renderer-diagram  
power-assert-renderer-file

power-assert-util-string-width  
prepend-http  
prismjs  
promise  
prop-types  
querystringify  
raf  
rc-align  
rc-animate  
rc-cascader  
rc-trigger  
rc-util  
re-resizable  
react  
react-dom  
react-draggable  
react-fast-compare  
react-grid-layout  
react-highlight-words  
react-immutable-proptypes  
react-input-autosize  
react-is  
react-lifecycles-compat  
react-loadable  
react-popover  
react-redux  
react-resizable  
react-sizeme  
react-split-pane  
react-style-proptype  
react-virtualized-auto-sizer  
react-wait  
react-window  
readable-stream  
readdirp  
redux  
redux-devtools-extension  
redux-immutable-state-invariant  
redux-logger  
redux-thunk  
regenerator-runtime  
regex-not  
registry-auth-token  
registry-url  
repeat-element  
repeat-string  
requires-port  
reselect  
resize-observer-polyfill  
resolve  
resolve-from  
resolve-url  
restructured  
ret  
rst2html  
rtl-css-js  
safe-buffer  
safe-regex  
safer-buffer  
scheduler  
screenfull

search-query-parser  
selection-is-backward  
semver-diff  
set-value  
setimmediate  
shallowequal  
shebang-command  
shebang-regex  
slate  
slate-base64-serializer  
slate-dev-environment  
slate-hotkeys  
slate-plain-serializer  
slate-prop-types  
slate-react-placeholder  
snapdragon  
snapdragon-node  
snapdragon-util  
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source-map-url  
sourcemap-codec  
split-string  
stack-generator  
stackframe  
stacktrace-gps  
stacktrace-js  
static-extend  
string-width  
string\_decoder  
stringifier  
strip-ansi  
strip-eof  
strip-json-comments  
stylis  
supports-color  
symbol-observable  
term-size  
tether  
tether-drop  
throttle-debounce  
timed-out  
tiny-emitter  
tiny-invariant  
tiny-warning  
tinycolor2  
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to-object-path  
to-regex  
to-regex-range  
toggle-selection  
traverse  
type-of  
typed-styles  
ua-parser-js  
undefsafe  
union-value  
unique-string  
unist-util-map  
unset-value  
unzip-response  
upath

```

urix
url-parse
url-parse-lax
use
util-deprecate
uuid
w3c-blob
warning
websocket-extensions
whatwg-fetch
widest-line
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github.com/prometheus/client_golang v0.9.2

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github.com/spf13/pflag v1.0.5

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github.com/pkg/errors v0.8.1

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github.com/go-openapi/jsonpointer
github.com/go-openapi/jsonreference
github.com/go-openapi/spec
github.com/go-openapi/swag
github.com/golang/groupcache
github.com/google/gofuzz
github.com/googleapis/gnostic
github.com/modern-go/concurrent
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gopkg.in/yaml.v2
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golang.org/x/sync
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 gopkg.in/go-playground/pool.v3  
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github.com/Microsoft/hcsshim
github.com/Rican7/retry
github.com/StackExchange/wmi
github.com/agnivade/levenshtein
github.com/alecthomas/units
github.com/andreyvit/diff
github.com/anmitsu/go-shlex

```

github.com/armon/circbuf  
github.com/armon/go-metrics  
github.com/armon/go-proxyproto  
github.com/armon/go-radix  
github.com/asaskevich/govalidator  
github.com/auth0/go-jwt-middleware  
github.com/beorn7/perks  
github.com/bgentry/speakeasy  
github.com/bifurcation/mint  
github.com/blang/semver  
github.com/boltdb/bolt  
github.com/cenkalti/backoff  
github.com/cespare/xxhash  
github.com/cespare/xxhash/v2  
github.com/cheekybits/genny  
github.com/cilium/ebpf  
github.com/client9/misspell  
github.com/codegangsta/negroni  
github.com/coreos/bbolt  
github.com/cpuguy83/go-md2man  
github.com/cpuguy83/go-md2man/v2  
github.com/creack/pty  
github.com/daviddengcn/go-colortext  
github.com/deckarep/golang-set  
github.com/dgrijalva/jwt-go  
github.com/docopt/docopt-go  
github.com/dustin/go-humanize  
github.com/eapache/channels  
github.com/eapache/queue  
github.com/ekalinin/github-markdown-toc  
github.com/emicklei/go-restful  
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github.com/go-toolsmith/astequal  
github.com/go-toolsmith/astfmt  
github.com/go-toolsmith/astinfo  
github.com/go-toolsmith/astp  
github.com/go-toolsmith/pkgload  
github.com/go-toolsmith/strparse  
github.com/go-toolsmith/typep  
github.com/gobwas/glob  
github.com/hashicorp/go-hclog  
github.com/hashicorp/go-syslog  
github.com/hashicorp/mdns  
github.com/hpcloud/tail  
github.com/imkira/go-interpol  
github.com/jellevandenhooff/dkim  
github.com/jimstudt/http-authentication  
github.com/json-iterator/go

github.com/jstemmer/go-junit-report  
github.com/jtolds/gls  
github.com/jung-kurt/gofpdf  
github.com/kisielk/gotool  
github.com/klauspost/cpuid  
github.com/konsorten/go-windows-terminal-sequences  
github.com/kr/logfmt  
github.com/kr/pretty  
github.com/kr/pty  
github.com/kr/text  
github.com/lithammer/dedent  
github.com/lucas-clemente/aes12  
github.com/lucas-clemente/quic-go  
github.com/lucas-clemente/quic-go-certificates  
github.com/mailru/easyjson  
github.com/matttn/go-colorable  
github.com/matttn/go-isatty  
github.com/matttn/go-runewidth  
github.com/matttn/go-shellwords  
github.com/matttn/goveralls  
github.com/mitchellh/go-homedir  
github.com/mitchellh/go-testing-interface  
github.com/mitchellh/go-wordwrap  
github.com/mitchellh/hashstructure  
github.com/mitchellh/iochan  
github.com/mitchellh/mapstructure  
github.com/mohae/deepcopy  
github.com/morikuni/aec  
github.com/moul/http2curl  
github.com/naoina/go-stringutil  
github.com/naoina/toml  
github.com/nbutton23/zxcvbn-go  
github.com/ncabatoff/go-seq  
github.com/ncabatoff/process-exporter  
github.com/olekukonko/tablewriter  
github.com/onsi/ginkgo  
github.com/onsi/gomega  
github.com/pelletier/go-toml  
github.com/peterbourgon/diskv  
github.com/posener/complete  
github.com/quasilyte/go-consistent  
github.com/robfig/cron  
github.com/rubiojr/go-vhd  
github.com/ryanuber/columnize  
github.com/ryanuber/go-glob  
github.com/satori/go.uuid  
github.com/shurcooL/go  
github.com/shurcooL/sanitized\_anchor\_name  
github.com/sirupsen/logrus  
github.com/smarty-streets/assertions  
github.com/smarty-streets/goconvey  
github.com/sourcegraph/go-diff  
github.com/spf13/cast  
github.com/spf13/jwalterweatherman  
github.com/spf13/viper  
github.com/storageos/go-api  
github.com/stretchr/objx  
github.com/timakin/bodyclose  
github.com/tmc/grpc-websocket-proxy  
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github.com/ugorji/go/codec

```

github.com/ultraware/funlen
github.com/urfave/cli
github.com/urfave/negroni
github.com/valyala/bytebufferpool
github.com/valyala/fasthttp
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gopkg.in/gavv/httpexpect.v2
gopkg.in/gemnasium/logrus-airbrake-hook.v2
gopkg.in/go-playground/pool.v3
gopkg.in/mcuadros/go-syslog.v2
gopkg.in/natefinch/lumberjack.v2
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popper.js  
<https://github.com/popperjs/popper-core>

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rickshaw

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css.escape

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downshift

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jquery

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jsdom

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@testing-library/react-hooks

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Support for streaming Protocol Buffer messages for the Go language (golang).  
[https://github.com/matttproud/golang\\_protobuf\\_extensions](https://github.com/matttproud/golang_protobuf_extensions)  
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procfs provides functions to retrieve system, kernel and process
metrics from the pseudo-filesystem proc.
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cloud.google.com/go/bigquery
github.com/Azure/azure-sdk-for-go
github.com/Azure/go-autorest
github.com/OneOfOne/xxhash
github.com/aws/aws-sdk-go
github.com/aws/aws-sdk-go-v2
github.com/census-instrumentation/opencensus-proto
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github.com/go-openapi/jsonpointer
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github.com/go-openapi/loads
github.com/go-openapi/runtime
github.com/go-openapi/spec
github.com/go-openapi/strfmt
github.com/go-openapi/swag
github.com/go-openapi/validate
github.com/golang/glog
github.com/golang/groupcache
github.com/google/gofuzz
github.com/google/pprof
github.com/googleapis/gnostic
github.com/gophercloud/gophercloud
github.com/jmespath/go-jmespath
github.com/matttproud/golang_protobuf_extensions
github.com/modern-go/concurrent
github.com/modern-go/reflect2
github.com/mwitkow/go-conntrack
github.com/oklog/run
github.com/oklog/ulid
github.com/opentracing-contrib/go-stdlib
github.com/opentracing/opentracing-go
github.com/prometheus/alertmanager
github.com/prometheus/client_golang
github.com/prometheus/client_model
github.com/prometheus/common
github.com/prometheus/procfs
github.com/soheilhy/cmux
github.com/uber/jaeger-client-go

```

```

github.com/uber/jaeger-lib
go.mongodb.org/mongo-driver
google.golang.org/appengine
google.golang.org/genproto
google.golang.org/grpc
gopkg.in/yaml.v2
k8s.io/api
k8s.io/apimachinery
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github.com/google/go-cmp
github.com/googleapis/gax-go/v2
github.com/jessevdk/go-flags
github.com/miekg/dns
golang.org/x/crypto
golang.org/x/net
golang.org/x/oauth2
golang.org/x/sync
golang.org/x/sys
golang.org/x/text
golang.org/x/time
golang.org/x/tools
google.golang.org/api
google.golang.org/protobuf
gopkg.in/fsnotify.v1
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github.com/cespare/xxhash/v2
github.com/dgrijalva/jwt-go
github.com/dgryski/go-sipl3
github.com/go-kit/kit
github.com/go-logfmt/logfmt
github.com/hashicorp/go-hclog
github.com/influxdata/influxdb
github.com/influxdata/influxdb1-client
github.com/jpillora/backoff
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github.com/hashicorp/go-immutable-radix
github.com/hashicorp/go-hclog
github.com/hashicorp/golang-lru
github.com/hashicorp/serf
github.com/hashicorp/consul/api v1.4.0
```

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github.com/go-openapi/errors
github.com/go-openapi/jsonpointer
github.com/go-openapi/jsonreference
github.com/go-openapi/loads
github.com/go-openapi/runtime
github.com/go-openapi/spec
github.com/go-openapi/strfmt
github.com/go-openapi/swag
github.com/go-openapi/validate
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github.com/matttproud/golang_protobuf_extensions
github.com/modern-go/concurrent
github.com/modern-go/reflect2
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github.com/oklog/ulid
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@kyleshockey/js-yaml
@kyleshockey/object-assign-deep
@kyleshockey/xml
argparse
asap
async
autolinker
babel-runtime
base64-js
buffer
classnames
combined-stream
cookie
core-js
create-react-class
cross-fetch
css.escape
d
deep-equal
deep-extend
delayed-stream
emitter-component
es6-iterator
es6-symbol
es6-weak-map
event-emitter
fast-json-patch
fbjs
form-data
iconv-lite
immutable
invariant
is-dom
is-promise
is-stream
isomorphic-fetch

```

```
isomorphic-form-data
js-tokens
js-yaml
lodash
lodash-es
lodash.debounce
loose-envify
lru-queue
mime-db
mime-types
next-tick
node-fetch
object-assign
performance-now
promise
prop-types
punycode
querystring
querystring-browser
querystringify
raf
randombytes
react
react-debounce-input
react-dom
react-immutable-proptypes
react-immutable-pure-component
react-inspector
react-motion
react-redux
redux
regenerator-runtime
remarkable
repeat-string
requires-port
reselect
safe-buffer
safer-buffer
serialize-error
setimmediate
sha.js
stream
symbol-observable
traverse
ua-parser-js
underscore
underscore.string
url
url-parse
utf8-bytes
utfstring
whatwg-fetch
xml-but-prettier
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go-yaml/yaml v2.2.2

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/\*

\* hash.c: chained hash tables

\*

\* Reference: Your favorite introductory book on algorithms

\*

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* Id
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*
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*
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* are async-safe. The exceptions are the printf/fprintf functions, which
* uses fputc, and the asprintf functions and the
modifier, which
* by design are required to allocate form the heap.
*
*****/
trionan.c:
/*****
*
* Id
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*
* Functions to handle special quantities in floating-point numbers
* (that is, NaNs and infinity). They provide the capability to detect
* and fabricate special quantities.
*
* Although written to be as portable as possible, it can never be
* guaranteed to work on all platforms, as not all hardware supports
* special quantities.
*
* The approach used here (approximately) is to:
*
* 1. Use C99 functionality when available.
* 2. Use IEEE 754 bit-patterns if possible.
* 3. Use platform-specific techniques.
*

triostr.c:
/*****
*
* Id
*
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zlib

zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017
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Jean-loup Gailly Mark Adler  
 jloup@gzip.org madler@alumni.caltech.edu

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version 1.2.7, May 2nd, 2012
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```
Jean-loup Gailly Mark Adler
jloup@gzip.org madler@alumni.caltech.edu
```

```
The data format used by the zlib library is described by RFCs (Request for
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(zlib format), rfc1951 (deflate format) and rfc1952 (gzip format).
*/
```

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 Apache Santuario XML Security for Java 1.5.4  
 Apache Xalan-Java 2.7.1  
 Apache Xerces Java 2.10.0  
 Apache XML Resolver 1.1  
 Dynalink 0.5

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# 6

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- 2) eclipselink 2.7.7  
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- 3) tomcat embedded 9.0.54  
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ASM 7.3.1

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ANTLR 3.5.2

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This software contains code derived from netty-native



developed by the Netty project  
(<https://netty.io>, <https://github.com/netty/netty-tcnative/>)  
and from finagle-native developed at Twitter  
(<https://github.com/twitter/finagle>).

This software contains code derived from jgroups-kubernetes  
developed by the JGroups project (<http://www.jgroups.org/>).

Java compilation software for JSP pages is provided by the Eclipse  
JDT Core Batch Compiler component, which is open source software.  
The original software and related information is available at  
<https://www.eclipse.org/jdt/core/>.

org.apache.tomcat.util.json.JSONParser.jj is a public domain javacc grammar  
for JSON written by Robert Fischer.  
<https://github.com/RobertFischer/json-parser>

For portions of the Tomcat JNI OpenSSL API and the OpenSSL JSSE integration  
The org.apache.tomcat.jni and the org.apache.tomcat.net.openssl packages  
are derivative work originating from the Netty project and the finagle-native  
project developed at Twitter

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For portions of the Tomcat cloud support  
The org.apache.catalina.tribes.membership.cloud package contains derivative  
work originating from the jgroups project.  
<https://github.com/jgroups-extras/jgroups-kubernetes>  
Copyright 2002-2018 Red Hat Inc.

-----  
tomcat embedded Fourth party dependency:  
tomcat-annotations-api (Apache 2.0)

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This content is produced and maintained by the \*\*Jakarta RESTful Web Services\*\*  
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\* Project home: <https://projects.eclipse.org/projects/ee4j.jaxrs>

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## ## Source Code

The project maintains the following source code repositories:

\* <https://github.com/eclipse-ee4j/jaxrs-api>

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# 7

## Licensing for Third-Party Software in Oracle Linux

This chapter includes information about the licensing for Oracle Linux components used by Oracle Private Cloud Appliance, including the associated third-party licensing and restrictions that apply as a result.

### Oracle Linux 7 Licensing Information

Oracle Linux 7 is an operating system included with Oracle Private Cloud Appliance.

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Oracle Linux Premier Support is included with support for Oracle Private Cloud Appliance. The following software packages are restricted use licenses to customers of Oracle Linux Premier Support.

| Product                   | Licensing Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ksplice                   | You may download Ksplice clients and kernel updates from the Ksplice channel on the Unbreakable Linux Network at <a href="http://linux.oracle.com">http://linux.oracle.com</a> and use it in support of Oracle Linux. In conjunction with such use, these terms and Oracle's terms for your Oracle Linux Premier support subscription supersede the terms of any clickwrap agreement that you must accept at the time of downloading the Ksplice clients and kernel updates.                                                                                       |
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## Oracle Linux 7 Images

For information on licenses for Oracle Linux 7 images, go to `/usr/share/licenses`.

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| Product            | Licensing Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ksplice            | You may download the Ksplice client software and system updates from the Ksplice channel on the Unbreakable Linux Network at <a href="https://linux.oracle.com">https://linux.oracle.com</a> and use it to update Oracle Linux and, or Red Hat Enterprise Linux as described in the <a href="#">Oracle® Linux: Ksplice User's Guide</a> . With the exception of any separately licensed components, your use of the Ksplice client software is subject to these terms and Oracle's terms for your Oracle Linux Premier support subscription. You are entitled to use Ksplice only during the term of your Oracle Linux Premier Support subscription and only on machines that are covered by that subscription. Any kernel or other updates that you obtain as a result of using the Ksplice service are subject to separate open source license terms, which are provided with the updates. These terms are not intended to restrict or otherwise limit your use of any separately licensed software that is provided as part of the Ksplice service, including any open source or separately licensed components that are delivered as part of the Ksplice client software. |
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## Oracle Linux 8 Images

For information on licenses for Oracle Linux 8 images, go to `/usr/share/licenses`.

# 8

## Licensing for Third-Party Software in Oracle Solaris

This chapter includes information about the licensing for Oracle Solaris components used by Oracle Private Cloud Appliance, including the associated third-party licensing and restrictions that apply as a result.

### Oracle Solaris 11.4 Licensing Information

Oracle Solaris 11.4 is an operating system included with Oracle Private Cloud Appliance.

This section provides the notices and licenses for the third-party software or components contained in Oracle Solaris 11.4.

### Oracle Technology Notices and Licenses

The following Oracle technologies that have a license document may be included in or distributed with this Oracle product. These Oracle technologies may include various third-party software, and the applicable notices and licenses can be found at the following locations:

- Oracle Java

Third-party notices and licenses for Oracle Java are available at:

(Java SE Downloads) <https://www.oracle.com/java/technologies/downloads/>)

- Oracle Solaris

For information about third-party notices and licenses for Oracle Solaris 11.4, see [Third-Party Notices and/or Licenses for Oracle Solaris 11.4](#).

### Third-Party Notices and/or Licenses for Oracle Solaris 11.4

Oracle Solaris 11.4 OS packages are listed in the following section. The licenses are listed alphabetically A-Z, then a-z.

### Open Source or Other Separately Licensed Software Included With Oracle Solaris 11.4

This section lists the software packages used for Oracle Solaris 11.4.

- American English Dictionary
- App-ClusterSSH
- Authen-PAM
- Babel

- Backbone.js
- Brazilian Portuguese Dictionary
- CACKey
- CDE
- CGI
- CLDR
- Cheetah
- CherryPy
- ConsoleKit
- Cracklib
- Csh
- Cython
- DBD-SQLite
- DBD-mysql
- DBI
- DTraceToolkit
- Django
- FormEncode
- French Dictionary
- GConf
- GMP
- GRUB2
- German Dictionary
- HAL (Hardware Abstraction Layer)
- HKSCS
- ICU
- ISO/IEC
- ImageMagick
- Imaging
- Italian Dictionary
- Jinja2
- Kerberos
- LZMA SDK
- Locale definition info from IEEE Std 1003.2-1992 v. Year 1992
- M2Crypto
- MPFR
- Mako

- Markdown
- MarkupSafe
- MiniSAT
- MySQL-python
- NDMP SDK
- Net-SSLeay
- Netscape Communications
- Open Fabrics kernel components
- PAPI
- PTP
- Paste
- PasteDeploy
- PowerTOP
- PrettyTable
- PyYAML
- Pygments
- Python
- Python
- Python
- RSA
- Reliable Datagram Sockets (RDSv3)
- RequireJS
- RequireJS i18n plugin
- RequireJS text plugin
- Routes
- Ruby
- Ruby
- RubyGems
- SDL
- SQLAlchemy
- SQLite
- Solarflare
- Spanish Dictionary
- Tempita
- The Open Group Technical Standard Portable Layout Services: Context-dependent and Directional Text - ISBN 1-85912-142-X
- Tk



- Twisted
- TwistedWeb2
- Underscore.js
- Unicode
- V4L2 API definition header files
- WebOb
- WebTest
- X11-Protocol
- XML-LibXML
- XML-NamespaceSupport
- XML-Parser
- XML-SAX
- XML-SAX-Base
- XML-Simple
- Xen PV Drivers
- a2ps
- aac
- aalib
- accerciser
- accessx
- accountsservice
- acpica
- acpidump
- adwaita-icon-theme
- agpgart
- aioeventlet
- amqp
- anonymous-pro
- ant
- antlr
- anyjson
- apache2
- appdirs
- apr
- apr
- apr-util
- apr-util

- arabeyes
- arn
- arp
- arphic-ukai
- arphic-uming
- asciidoc
- asn1crypto
- aspell
- astroid
- at-spi2-atk
- at-spi2-core
- atk
- atkmm
- atu
- augeas
- autoconf
- autoconf
- automake
- automake
- automake
- avahi
- background-logo-extension
- backup
- baekmuk
- baobab
- bash
- beautifulsoup4
- bge
- bib
- bind
- binutils
- bison
- bitmap
- bnu
- boto
- bpf
- bpg-georgian

- brltty
- bzip2
- cachetools
- cairo
- cairomm
- cantarell-fonts
- caribou
- ccid
- cdrtools
- cffi
- check
- checkeq
- chrome-gnome-shell
- cliff
- cloog
- cloudbase-init
- clutter
- clutter-gst
- clutter-gst
- clutter-gtk
- cmake
- cmd2
- cogl
- colord
- colord-gtk
- compress
- conflict
- constype
- contextlib2
- convmv
- coolkey
- coreutils
- cov-core
- coverage
- cppunit
- cron
- croscorefonts

- cryptography
- cssutils
- cups
- curl
- cvs
- cyrus-sasl
- d2to1
- d3
- daq
- dbus
- dbus-glib
- dbus-python
- dconf
- dconf-editor
- debtcollector
- decorator
- dejagnu
- dejavu-fonts-ttf
- desktop-file-utils
- devhelp
- diffstat
- diffutils
- django-appconf
- dnsmasq
- dnspython
- docbook
- docbook-dsssl
- docbook-xsl
- dogpile.cache
- dogpile.core
- dotconf
- doxygen
- drm
- dulwich
- dwarf
- eeprom
- emacs

- enchant
- enscript
- enum34
- eog
- eog-plugins
- erlang
- espeak
- eventlet
- evince
- evolution-data-server
- exempi
- expect
- extras
- facter
- fasteners
- fetchmail
- fftw
- file-roller
- filechunkio
- findutils
- firefox
- fixtures
- flac
- flex
- fltk
- folks
- font-adobe-100dpi
- font-bh-ttf
- font-daewoo-misc
- font-isas-misc
- font-jis-misc
- font-misc-cyrillic
- font-misc-ethiopic
- font-misc-meltho
- fontconfig
- foomatic-db
- foomatic-db-engine

- foomatic-filters
- foomatic-filters-ppds
- fping
- freefont
- freeglut
- freetype
- fstobdf
- ftp
- ftp-proxy
- fts
- funcsig
- futures
- futurist
- gSOAP
- gamin
- gawk
- gcc
- gcc
- gcr
- gd
- gdb
- gdbm
- gdk-pixbuf
- gdm
- gedit
- gedit-plugins
- genders
- gentium
- geoclue
- geocode-glib
- getopt
- getopt\_long
- gettext
- gettext
- ghostscript
- ghostscript-fonts-std
- git

- gjs
- glade
- gladman
- glib
- glib-networking
- glibmm
- glu
- gmime
- gnome-autoar
- gnome-backgrounds
- gnome-calculator
- gnome-calendar
- gnome-clocks
- gnome-common
- gnome-control-center
- gnome-desktop
- gnome-devel-docs
- gnome-doc-utils
- gnome-font-viewer
- gnome-getting-started-docs
- gnome-initial-setup
- gnome-keyring
- gnome-menus
- gnome-online-accounts
- gnome-screenshot
- gnome-session
- gnome-settings-daemon
- gnome-shell
- gnome-shell-extensions
- gnome-system-monitor
- gnome-terminal
- gnome-themes-standard
- gnome-tweak-tool
- gnome-user-docs
- gnu-efi
- gnu-gs-fonts-other
- gnupg

- gnuplot
- gnutls
- gobject-introspection
- gocr
- golang
- gom
- google-droid-fonts
- gperf
- gpgme
- graphviz
- greenlet
- grep
- grilo
- grilo-plugins
- groff
- gsettings-desktop-schemas
- gsl
- gsound
- gssdp
- gsskex
- gsskrbkernel
- gst-plugins-base
- gst-plugins-good
- gst-python
- gstreamer
- gtk-doc
- gtk-engines
- gtk-vnc
- gtk2
- gtk3
- gtkmm
- gtkmm
- gtksourceview
- gtkspell
- gucharmap
- gupnp
- gupnp-igd



- gutenprint
- gvfs
- gzip
- hal-cups-utils
- harfbuzz
- help2man
- hexedit
- hg-git
- hicolor-icon-theme
- hiera
- hplip
- httping
- httplib2
- hwa1480\_fw
- i915
- ibus
- ibutils
- icu
- icu4c
- idna
- idnkit
- ifconfig
- ifparse
- iftop
- ilmbase
- imake
- indent
- indic-fonts-core
- infiniband-diags
- iniparse
- intel
- intel-gpu-tools
- intltool
- ipaddr
- ipaddress
- ipafont
- iperf

- ipfilter
- ipmi
- ipmitool
- ipython
- irssi
- isc-dhcp
- isl
- iso-codes
- iso8601
- isort
- itstool
- iwh
- iwk
- iwp
- jQuery
- jansson
- jjv
- jpeg
- jq
- jsl
- json-c
- json-glib
- jsonpatch
- jsonpath-rw
- jsonpointer
- jsonrpc-lib
- jsonschema
- junit
- kacst
- kcmd
- keymaster.js
- keystoneauth1
- keystonemiddleware
- kombu
- ksh93
- lastcomm
- lazy-object-proxy

- lcms
- lcms2
- ldappool
- ldtp
- less
- lesscpy
- lftp
- lgi
- libFS
- libICE
- libSM
- libX11
- libXScrnSaver
- libXau
- libXaw
- libXcomposite
- libXcursor
- libXdamage
- libXdmcp
- libXevie
- libXext
- libXfixes
- libXfont
- libXfont2
- libXft
- libXi
- libXinerama
- libXmu
- libXp
- libXpm
- libXpresent
- libXrandr
- libXrender
- libXres
- libXt
- libXtst
- libXv

- libXvMC
- libXxf86misc
- libXxf86vm
- libarchive
- libassuan
- libbsdmalloc
- libcanberra
- libchamplain
- libconfuse
- libcroco
- libdaemon
- libdmx
- libdnet
- libdrm
- libedit
- libee
- libepoxy
- liberation-fonts-ttf
- libestr
- libevent
- libexif
- libexpat
- libffi
- libfontenc
- libfuse
- libgcrypt
- libgdata
- libgee
- libgpg-error
- libgsf
- libgtop
- libgweather
- libgxps
- libibmad
- libibumad
- libibverbs
- libical

- libidn
- libidn2
- libinetutil
- libipt
- libkmf
- libksba
- liblogging
- liblouis
- libmediaart
- libmemcached
- libmicrohttpd
- libmlx4
- libmng
- libmp
- libmusicbrainz
- libneon
- libnet
- libnotify
- liboauth
- libogg
- libomp
- libotr
- libpcap
- libpciaccess
- libpeas
- libpki
- libpng
- libpng
- libpng
- libproxy
- libpthread-stubs
- librabbitmq
- librdmacm
- libresolv2
- librstp
- libsvg
- libsync

- libsdp
- libsecret
- libsigsegv
- libsndfile
- libsoup
- libspectre
- libssh2
- libtasn1
- libtecla
- libtheora
- libtiff
- libtool
- libtorrent
- libusb
- libusb-wrapper
- libuuid
- libvdpau
- libvisual
- libvisual-plugins
- libvorbis
- libvpx
- libwebp
- libwnck3
- libxcb
- libxkbcommon
- libxkbfile
- libxklavier
- libxml2
- libxshmfence
- libxslt
- libzapojit
- lighttpd
- linecache2
- links
- listres
- llvm
- Indir

- locale
- lockfile
- logilab-common
- logutils
- lohit
- look
- lua
- luit
- lxml
- lynx
- lz4
- m4
- mailman
- make
- makedepend
- marionette-collective
- mccabe
- mcollective-facter-facts
- mcollective-package-agent
- mcollective-puppet-agent
- mcollective-service-agent
- mdb
- mdns
- meld
- memcached
- memcached-java
- mercurial
- mesa
- mesa-demos
- mgopen
- mkfontscale
- mlocate
- mm-common
- mock
- mod\_dtrace
- mod\_fcgid
- mod\_gss

- mod\_jk
- mod\_perl
- mod\_wsgi
- modsecurity
- monotonic
- mousetweaks
- mozjs
- mpathd
- mpc
- mpc
- mrtg
- msgpack-python
- mt
- mtr
- mutt
- mutter
- mysql
- nano
- nautilus
- nautilus-sendto
- ncftp
- ncurses
- net-snmp
- net80211
- netaddr
- netcat
- netifaces
- netlink
- netlink
- nettle
- networkx
- nghhttp2
- nicstat
- nmap
- noVNC
- nose
- nose-cover3



- nspr
- nss
- ntfsprogs
- ntp
- numpy
- oauthlib
- ocaml
- oclock
- omp\_collector\_api.h
- onig
- openca-ocspd
- openexr
- openjade
- openjpeg
- openldap
- openscap
- opensm
- opensp
- openssh
- openssl
- openssl
- openssl-fips-140
- openstacksdk
- openusb
- orc
- orca
- os-client-config
- oslo.concurrency
- oslo.config
- oslo.context
- oslo.i18n
- oslo.log
- oslo.messaging
- oslo.middleware
- oslo.serialization
- oslo.service
- oslo.utils

- osprofiler
- ovs
- ovs
- p11-kit
- p7zip
- pam\_pkcs11
- pango
- pangomm
- paps
- parallel
- paramiko
- parted
- patch
- patchutils
- pathlib
- patricia
- pbr
- pbzip2
- pcfs
- pci.ids
- pconsole
- pcre
- pcre2
- pcsc-lite
- pdsh
- pep8
- perftest
- perl
- perl
- pf
- pflogd
- php
- php
- pidgin
- pidgin-gnome-keyring
- pidgin-otr
- pigz

- pika
- pika-pool
- pinentry
- pip
- pixman
- pixz
- pkcs11
- pkcs11\_tpm
- pkg-config
- pkgbuild
- ply
- pmtools
- policykit
- polkit
- poppler
- poppler-data
- popt
- portfp
- portgen
- positional
- posix\_ipc
- postfix
- ppp
- pppdump
- privoxy
- procmail
- procps-ng
- proftpd
- psutil
- psutils
- pth
- pulseaudio
- puppet
- puppet-rabbitmq
- puppet-staging
- puppetlabs-apache
- puppetlabs-concat

- puppetlabs-inifile
- puppetlabs-mysql
- puppetlabs-ntp
- puppetlabs-rsync
- puppetlabs-stdlib
- pv
- pwgen
- py
- py2cairo
- pyOpenSSL
- pyScss
- pyasn1
- pyasn1-modules
- pyatspi
- pybonjour
- pycadf
- pycairo
- pycountry
- pycparser
- pycups
- pycurl
- pydns
- pyflakes
- pygobject
- pygobject
- pygtk
- pylint
- pymemcache
- pyparsing
- pyrabbit
- pysmi
- pysnmp
- pytest
- pytest-capturelog
- pytest-codecheckers
- pytest-cov
- python-ceilometerclient

- python-dateutil
- python-editor
- python-keystoneclient
- python-ldap
- python-memcached
- python-mimeparse
- python-neutronclient
- python-quantumclient
- python-swiftclient
- pytz
- pywbem
- qpdf
- qperf
- quagga
- quilt
- qunit
- rabbitmq-server
- racoon2
- raphael
- rcp
- rcssmin
- rdesktop
- rdiff-backup
- rds-tools
- re2c
- readline
- readline
- repoze.lru
- requests
- requests-aws
- requestsexceptions
- rest
- retrying
- rjsmin
- rlogind
- route
- routed.bsd

- rpdb
- rpm2cpio
- rrdtool
- rsh
- rsync
- rsyslog
- rtorrent
- rts
- ruby
- ruby
- ruby-augeas
- rum
- samba
- saz-memcached
- sbsigntool
- scon
- scp
- screen
- script
- seahorse
- sed
- sendmail
- sendmail
- serf
- sessreg
- setuptools
- setuptools-git
- setxkbmap
- sg3\_utils
- sgml-common
- shared-mime-info
- shim
- sigcpp
- sil
- simplegeneric
- simplejson
- singledispatch

- six
- smartmontools
- smbfs
- smp\_utils
- smproxy
- snappy
- snia-hbaapi
- snia-ima
- snia-mpapi
- snort
- source-code-pro
- source-sans-pro
- spawn-fcgi
- speech-dispatcher
- speex
- sqlite
- sqlparse
- squid
- sscanf
- startup-notification
- stdcxx
- stevedore
- stomp
- stunnel
- subversion
- sudo
- suhosin
- sushi
- swift
- swig
- t11-sm-hba
- taglib
- tar
- tarfile
- tcl
- tcp-wrapper
- tcpdump

- tcsh
- telepathy-glib
- telepathy-logger
- telnet
- terminfo
- termio
- testresources
- testscenarios
- testtools
- texi2html
- texinfo
- text-utilities
- thai-scalable
- thunderbird
- tidy
- tigervnc
- timers
- tip
- tk
- tmux
- tomcat
- top
- totem
- totem-pl-parser
- tox
- traceback2
- traceroute
- tracker
- transset
- tree
- trollius
- trousers
- ttf-bitstream-vera
- twm
- uath
- udfs
- ufs



- uhttpmock
- ul
- unfonts-ko-core
- unfonts-ko-extra
- unicode
- unicodecsv
- unifont
- units
- unixODBC
- unrar
- unzip
- upower
- ural
- urllib3
- urtw
- usb.ids
- util-macros
- vacation
- vala
- vgaarb
- vgrind
- vi
- vim
- vinagre
- vino
- virtualenv
- vmstat
- vte
- waitress
- warlock
- wdiff
- webalizer
- webkitgtk
- wget
- which
- which
- wireshark

- wpa
- wqy-zenhei
- wrapt
- wxWidgets
- x11perf
- xattr
- xauth
- xbitmaps
- xcb-util
- xcb-util-cursor
- xcb-util-errors
- xcb-util-image
- xcb-util-keysyms
- xcb-util-renderutil
- xcb-util-wm
- xclipboard
- xclock
- xcompmgr
- xconsole
- xcursor-themes
- xcursorgen
- xdebug
- xdg-utils
- xdm
- xdpyinfo
- xev
- xf86-input-keyboard
- xf86-input-mouse
- xf86-input-synaptics
- xf86-input-vmmouse
- xf86-input-void
- xf86-video-ast
- xf86-video-ati
- xf86-video-cirrus
- xf86-video-dummy
- xf86-video-intel
- xf86-video-mach64

- xf86-video-mga
- xf86-video-openchrome
- xf86-video-r128
- xf86-video-vboxvideo
- xf86-video-vesa
- xf86-video-vmware
- xfd
- xfontsel
- xfs
- xhost
- xinit
- xkbcomp
- xkeyboard-config
- xkill
- xload
- xlock
- xlogo
- xmag
- xmlto
- xorg-docs
- xorg-server
- xorriso
- xproto
- xscope
- xscreensaver
- xstdcmap
- xstr
- xterm
- xterm
- xtrans
- xwd
- xz
- yasm
- yelp
- yelp-tools
- yelp-xsl
- zenity

- zip
- zlib
- zope.interface
- zsh
- zyd

## Displaying Licenses for Oracle Solaris Packages

Use the `--license` option of the `pkg info` command to display the license texts for the matching packages.

The following example displays license text for the `gzip` package on an installed Oracle Solaris system:

```
$ pkg info --license compress/gzip
```

See the Oracle Solaris documentation for more information about using the `pkg info` command.

# 9

## Licensing for Third-Party Software in Oracle JavaScript Extension Toolkit (JET)

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|--------------------------------------------------------------------------------|------------------------------------------------|
| js/libs/chai/chai-4.2.0.js                                                     | MIT                                            |
| js/libs/es6-promise/es6-promise.js                                             | MIT                                            |
| js/libs/hammer/hammer-2.0.8.js                                                 | MIT                                            |
| js/libs/js-signals/signals.js                                                  | MIT                                            |
| js/libs/jquery/jquery-3.5.1.js                                                 | MIT                                            |
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| js/libs/jquery/jqueryui-amd-1.12.1/core.js                                     | MIT                                            |
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| js/libs/jquery/jqueryui-amd-1.12.1/position.js                                 | MIT                                            |
| js/libs/jquery/jqueryui-amd-1.12.1/sortable.js                                 | MIT                                            |
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| js/libs/knockout/knockout-3.5.1.js                                             | MIT                                            |
| js/libs/knockout/knockout-mapping-latest.js                                    | MIT                                            |
| js/libs/oj/v10.0.0/min/ojcspexpressionevaluator.js (cspexpressionevaluator.js) | MIT                                            |
| js/libs/oj/v10.0.0/min/ojexpparser.js (expparser.js)                           | MIT                                            |
| js/libs/oj/v10.0.0/min/ojknockout.js (knockout-fast-foreach.js)                | MIT                                            |
| js/libs/oj/v10.0.0/min/ojselectcombobox.js (Select2.js)                        | Apache 2.0                                     |
| js/libs/oj/v10.0.0/min/ojtree.js (jsTree.js)                                   | MIT                                            |
| js/libs/oj/v10.0.0/ojL10n.js (requireJS i18n)                                  | MIT                                            |
| js/libs/proj4js/dist/proj4.js                                                  |                                                |
| Proj4js                                                                        |                                                |
| js/libs/require/require.js                                                     | MIT                                            |
| js/libs/require/text.js                                                        | MIT                                            |
| js/libs/require-css/css.min.js (require-css)                                   | MIT                                            |
| js/libs/webcomponents/custom-elements.min.js                                   | custom-                                        |
| elements                                                                       |                                                |

|                                                       |     |     |
|-------------------------------------------------------|-----|-----|
| scss/oj/v10.0.0/3rdparty/normalize/normalize.scss     | MIT |     |
| js/libs/touchr/touchr.js                              |     | MIT |
| js/libs/oj/v10.0.0/min/ojvcomponent.js (petit-dom.js) | MIT |     |

Chai - v4.2.0  
<https://github.com/chaijs/chai>  
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<https://github.com/yelouafi/petit-dom>

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 Version: 1.0.0 - Build: 268 (2012/11/29 05:48 PM)

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RequireJS 2.3.6

<http://github.com/jrburke/requirejs>

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TinyXML2
=====
aws-cpp-sdk-core/include/aws/core/external/tinyxml2/tinyxml2.h

/*
Original code by Lee Thomason (www.grinninglizard.com)
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android-build/cmakefiles/openssl-cmake/CMakeLists.txt

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Android tool chain cmake build files

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cmake/platform/android.toolchain.cmake

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dtoa.c

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Facebook Fast Checksum Patch

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```
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Google SMP Patch

Google SMP patch

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Hashicorp Vault

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

```
lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
```

```
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c
```

and the initial implementation of incremental propagation, including the following new or changed files:

```
include/ipropr_hdr.h
kadmin/server/ipropr_svc.c
lib/kdb/ipropr.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kproplog.c
```

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Date: 2009-09-22, 16:23:42 PDT [KW]
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This file defines the Default Unicode Collation Element Table
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#
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#
See UTS #10, Unicode Collation Algorithm, for more information.
#
Diagnostic weight ranges
Primary weight range: 0200..3ACA (14539)
Secondary weight range: 0020..0192 (371)
Variant secondaries: 0159..015E (6)
Digit secondaries: 015F..0192 (52)
Tertiary weight range: 0002..001F (30)
#
@version 5.2.0
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zlib

zlib

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|                  |                           |
|------------------|---------------------------|
| Jean-loup Gailly | Mark Adler                |
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ZSTD

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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

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- c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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```
<one line to give the library's name and a brief idea of what it does.>
Copyright (C) <year> <name of author>
```

```
This library is free software; you can redistribute it and/or
modify it under the terms of the GNU Lesser General Public
License as published by the Free Software Foundation; either
version 2.1 of the License, or (at your option) any later version.
```

```
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but WITHOUT ANY WARRANTY; without even the implied warranty of
MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU
Lesser General Public License for more details.
```

```
You should have received a copy of the GNU Lesser General Public
License along with this library; if not, write to the Free Software
Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA
02110-1301 USA
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```
Yoyodyne, Inc., hereby disclaims all copyright interest in the
library `Frob' (a library for tweaking knobs) written by James
Random Hacker.
```

```
<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
```

That's all there is to it!

```
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=====
```

Artistic License (Perl) 1.0

The "Artistic License"

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The End

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# Licensing for Third-Party Software in Oracle Cloud Native Environment

This chapter includes information about the licensing for Oracle Cloud Native Environment components used by Oracle Private Cloud Appliance, including the associated third-party licensing and restrictions that apply as a result.

## Oracle Cloud Native Environment Licensing Information

### Licensing Information

This section includes the software licensing information for third-party software products included as part of Oracle Cloud Native Environment.

### Licensing Information for Software Packages and Container Images

This section contains the licensing information for the software packages and container images in Oracle Cloud Native Environment.

Container images contain the Oracle Linux operating system, which is covered by the Oracle Linux license.

The Oracle Linux programs contain many components that are developed by Oracle and various third parties. The license for each component is located in this licensing documentation and, or, in the component's source code. In addition, a list of components may be delivered with the Oracle Linux programs and the Additional Oracle Linux programs (as defined in the Oracle Linux License Agreement) or accessed online at <https://oss.oracle.com/linux/legal/oracle-list.html>. The source code for the Oracle Linux Programs and the Additional Oracle Linux programs can be found and accessed online at <https://oss.oracle.com/sources/>.

### Kubernetes

**Table 11-1 Software Package and Container Image Licensing Information for Kubernetes**

| Component | RPM Packages | Container Images                                  | License Information        | Dependencies                                                                           |
|-----------|--------------|---------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------|
| coredns   |              | container-registry.oracle.com/olcne/coredns:1.7.0 | <a href="#">Apache-2.0</a> | For software package dependency licensing information see <a href="#">Table 11-2</a> . |

**Table 11-1 (Cont.) Software Package and Container Image Licensing Information for Kubernetes**

| Component              | RPM Packages                                                                                                                           | Container Images                                                                                                                                                                                                                                                                                           | License Information        | Dependencies                                                                           |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------------------|
| etcd                   | etcd-3.4.13-1.<br>[platform].x86_64.rpm                                                                                                | container-registry.oracle.com/olcne/etcd:3.4.13                                                                                                                                                                                                                                                            | <a href="#">Apache-2.0</a> | For software package dependency licensing information see <a href="#">Table 11-3</a> . |
| flannel                |                                                                                                                                        | container-registry.oracle.com/olcne/flannel:v0.13.0                                                                                                                                                                                                                                                        | <a href="#">Apache-2.0</a> | For software package dependency licensing information see <a href="#">Table 11-4</a> . |
| kubernetes-cni-plugins | kubernetes-cni-plugins-0.9.1-1.<br>[platform].x86_64.rpm                                                                               | No container images.                                                                                                                                                                                                                                                                                       | <a href="#">Apache-2.0</a> | For software package dependency licensing information see <a href="#">Table 11-5</a> . |
| kubernetes             | kubelet-1.20.6-1.<br>[platform].x86_64.rpm<br>kubectl-1.20.6-1.<br>[platform].x86_64.rpm<br>kubeadm-1.20.6-1.<br>[platform].x86_64.rpm | container-registry.oracle.com/olcne/kube-proxy:v1.20.6<br>container-registry.oracle.com/olcne/kube-apiserver:v1.20.6<br>container-registry.oracle.com/olcne/kube-scheduler:v1.20.6<br>container-registry.oracle.com/olcne/kube-controller-manager:v1.20.6<br>container-registry.oracle.com/olcne/pause:3.4 | <a href="#">Apache-2.0</a> | For software package dependency licensing information see <a href="#">Table 11-6</a> . |

**Table 11-2 Software Package Dependency Licensing Information for coredns 1.7.0**

| Package Name                                     | Version | License                            |
|--------------------------------------------------|---------|------------------------------------|
| github.com/Azure/azure-sdk-for-go                | v40.6.0 | <a href="#">MIT License</a>        |
| github.com/Azure/go-autorest/autorest            | v0.10.2 | <a href="#">Apache License 2.0</a> |
| github.com/Azure/go-autorest/autorest/azure/auth | v0.4.2  | <a href="#">Apache License 2.0</a> |

**Table 11-2 (Cont.) Software Package Dependency Licensing Information for coredns 1.7.0**

| Package Name                                        | Version      | License                                                 |
|-----------------------------------------------------|--------------|---------------------------------------------------------|
| github.com/DataDog/datadog-go                       | v3.5.0       | <a href="#">MIT License</a>                             |
| github.com/Shopify/sarama                           | v1.21.0      | <a href="#">MIT License</a>                             |
| github.com/apache/thrift                            | v0.13.0      | <a href="#">Apache License 2.0</a>                      |
| github.com/aws/aws-sdk-go                           | v1.32.1      | <a href="#">Apache License 2.0</a>                      |
| github.com/caddyserver/caddy                        | v1.0.5       | <a href="#">Apache License 2.0</a>                      |
| github.com/cenkalti/backoff/v4                      | v4.0.2       | <a href="#">MIT License</a>                             |
| github.com/dnstap/golang-dnstap                     | v0.2.0       | <a href="#">Apache-2.0</a>                              |
| github.com/farsightsec/golang-framestream           | fa4b164d59b8 | <a href="#">Apache-2.0</a>                              |
| github.com/golang/protobuf                          | v1.4.2       | <a href="#">BSD 3-Clause "New" or "Revised" License</a> |
| github.com/gophercloud/gophercloud                  | v0.9.0       | <a href="#">Apache-2.0</a>                              |
| github.com/grpc-ecosystem/grpc-opentracing          | 8e809c8a8645 | <a href="#">BSD-3-Clause</a>                            |
| github.com/hashicorp/golang-lru                     | v0.5.4       | <a href="#">Mozilla Public License 2.0</a>              |
| github.com/imdario/mergo                            | v0.3.9       | <a href="#">BSD 3-Clause "New" or "Revised" License</a> |
| github.com/infobloxopen/go-trees                    | 2af4e13f9062 | <a href="#">Apache License 2.0</a>                      |
| github.com/kr/pretty                                | v0.2.0       | <a href="#">MIT License</a>                             |
| github.com/matttproud/golang_protobuf_extensions    | v1.0.1       | <a href="#">Apache License 2.0</a>                      |
| github.com/miekg/dns                                | v1.1.29      | <a href="#">BSD-3-Clause</a>                            |
| github.com/opentracing-contrib/go-observer          | a52f23424492 | <a href="#">Apache License 2.0</a>                      |
| github.com/opentracing/opentracing-go               | v1.1.0       | <a href="#">Apache License 2.0</a>                      |
| github.com/openzipkin-contrib/zipkin-go-opentracing | v0.3.5       | <a href="#">Apache License 2.0</a>                      |
| github.com/philhofer/fwd                            | v1.0.0       | <a href="#">MIT License</a>                             |
| github.com/prometheus/client_golang                 | v1.6.0       | <a href="#">Apache License 2.0</a>                      |
| github.com/prometheus/client_model                  | v0.2.0       | <a href="#">Apache License 2.0</a>                      |
| github.com/prometheus/common                        | v0.10.0      | <a href="#">Apache License 2.0</a>                      |
| github.com/prometheus/prometheus                    | v2.5.0       | <a href="#">Apache License 2.0</a>                      |
| github.com/tinylib/msgp                             | v1.1.2       | <a href="#">MIT</a>                                     |
| go.etcd.io/etcd                                     | 221f0cc107cb | <a href="#">Apache License 2.0</a>                      |
| go.uber.org/zap                                     | v1.14.1      | <a href="#">MIT License</a>                             |
| golang.org/x/crypto                                 | 0ec3e9974c59 | <a href="#">BSD-3-Clause</a>                            |
| golang.org/x/sys                                    | 1957bb5e6d1f | <a href="#">BSD-3-Clause</a>                            |
| google.golang.org/api                               | v0.26.0      | <a href="#">BSD 3-Clause "New" or "Revised" License</a> |

**Table 11-2 (Cont.) Software Package Dependency Licensing Information for coredns 1.7.0**

| Package Name                    | Version | License                            |
|---------------------------------|---------|------------------------------------|
| google.golang.org/grpc          | v1.29.1 | <a href="#">Apache License 2.0</a> |
| gopkg.in/DataDog/dd-trace-go.v1 | v1.24.1 | <a href="#">Apache-2.0</a>         |
| k8s.io/api                      | v0.18.3 | <a href="#">Apache License 2.0</a> |
| k8s.io/apimachinery             | v0.18.3 | <a href="#">Apache License 2.0</a> |
| k8s.io/client-go                | v0.18.3 | <a href="#">Apache License 2.0</a> |
| k8s.io/klog                     | v1.0.0  | <a href="#">Apache License 2.0</a> |

**Table 11-3 Software Package Dependency Licensing Information for etcd 3.4.13**

| Package Name                                     | Version      | License                                                     |
|--------------------------------------------------|--------------|-------------------------------------------------------------|
| github.com/bgentry/speakeasy                     | v0.1.0       | <a href="#">MIT</a>                                         |
| github.com/cockroachdb/<br>datadriven            | 80d97fb3cbaa | <a href="#">Apache License 2.0</a>                          |
| github.com/coreos/go-semver                      | v0.2.0       | <a href="#">Apache License 2.0</a>                          |
| github.com/coreos/go-systemd                     | 39ca1b05acc7 | <a href="#">Apache License 2.0</a>                          |
| github.com/coreos/pkg                            | 3ac0863d7acf | <a href="#">Apache License 2.0</a>                          |
| github.com/creack/pty                            | v1.1.7       | <a href="#">MIT License</a>                                 |
| github.com/dgrijalva/jwt-go                      | v3.2.0       | <a href="#">MIT License</a>                                 |
| github.com/dustin/go-humanize                    | bb3d318650d4 | <a href="#">MIT</a>                                         |
| github.com/fatih/color                           | v1.7.0       | <a href="#">MIT License</a>                                 |
| github.com/gogo/protobuf                         | v1.2.1       | <a href="#">BSD-3-Clause</a>                                |
| github.com/golang/groupcache                     | 02826c3e7903 | <a href="#">Apache License 2.0</a>                          |
| github.com/golang/protobuf                       | v1.3.2       | <a href="#">BSD 3-Clause "New" or<br/>"Revised" License</a> |
| github.com/google/btree                          | v1.0.0       | <a href="#">Apache License 2.0</a>                          |
| github.com/google/uuid                           | v1.0.0       | <a href="#">BSD 3-Clause "New" or<br/>"Revised" License</a> |
| github.com/gorilla/websocket                     | 4201258b820c | <a href="#">BSD 2-Clause "Simplified"<br/>License</a>       |
| github.com/grpc-ecosystem/go-<br>grpc-middleware | f849b5445de4 | <a href="#">Apache License 2.0</a>                          |
| github.com/grpc-ecosystem/go-<br>grpc-prometheus | v1.2.0       | <a href="#">Apache License 2.0</a>                          |
| github.com/grpc-ecosystem/grpc-<br>gateway       | v1.9.5       | <a href="#">BSD 3-Clause "New" or<br/>"Revised" License</a> |
| github.com/inconshreveable/<br>mousetrap         | v1.0.0       | <a href="#">Apache-2.0</a>                                  |
| github.com/jonboulle/clockwork                   | v0.1.0       | <a href="#">Apache License 2.0</a>                          |
| github.com/json-iterator/go                      | v1.1.7       | <a href="#">MIT License</a>                                 |
| github.com/mattn/go-colorable                    | v0.0.9       | <a href="#">MIT License</a>                                 |
| github.com/mattn/go-isatty                       | v0.0.4       | <a href="#">MIT License</a>                                 |
| github.com/mattn/go-runewidth                    | v0.0.2       | <a href="#">MIT License</a>                                 |

**Table 11-3 (Cont.) Software Package Dependency Licensing Information for etcd 3.4.13**

| Package Name                            | Version      | License                                    |
|-----------------------------------------|--------------|--------------------------------------------|
| github.com/modern-go/reflect2           | v1.0.1       | Apache License 2.0                         |
| github.com/olekukonko/<br>tablewriter   | a0225b3f23b5 | MIT License                                |
| github.com/prometheus/<br>client_golang | v1.0.0       | Apache License 2.0                         |
| github.com/prometheus/<br>client_model  | 14fe0d1b01d4 | Apache License 2.0                         |
| github.com/sirupsen/logrus              | v1.4.2       | MIT License                                |
| github.com/soheilhy/cmux                | v0.1.4       | Apache License 2.0                         |
| github.com/spf13/cobra                  | v0.0.3       | Apache License 2.0                         |
| github.com/spf13/pflag                  | v1.0.1       | BSD 3-Clause "New" or<br>"Revised" License |
| github.com/tmc/grpc-websocket-<br>proxy | 89b8d40f7ca8 | MIT License                                |
| github.com/urfave/cli                   | v1.20.0      | MIT License                                |
| github.com/xiang90/probing              | 43a291ad63a2 | MIT License                                |
| go.etcd.io/bbolt                        | v1.3.3       | MIT License                                |
| go.uber.org/atomic                      | v1.3.2       | MIT License                                |
| go.uber.org/multierr                    | v1.1.0       | MIT License                                |
| go.uber.org/zap                         | v1.10.0      | MIT License                                |
| golang.org/x/crypto                     | c2843e01d9a2 | BSD-3-Clause                               |
| golang.org/x/lint                       | d0100b6bd8b3 | BSD 3-Clause "New" or<br>"Revised" License |
| golang.org/x/net                        | 74dc4d7220e7 | BSD-3-Clause                               |
| golang.org/x/sys                        | c7b8b68b1456 | BSD-3-Clause                               |
| golang.org/x/text                       | v0.3.3       | BSD-3-Clause                               |
| golang.org/x/time                       | fb02b2291d2  | BSD-3-Clause                               |
| golang.org/x/tools                      | 2c0ae7006135 | BSD-3-Clause                               |
| google.golang.org/grpc                  | v1.26.0      | Apache License 2.0                         |
| gopkg.in/cheggaaa/pb.v1                 | v1.0.25      | BSD 3-Clause "New" or<br>"Revised" License |
| gopkg.in/yaml.v2                        | v2.2.2       | Apache-2.0                                 |
| honnef.co/go/tools                      | ea95bdfd59fc | MIT                                        |
| sigs.k8s.io/yaml                        | v1.1.0       | MIT & BSD-3-Clause                         |

**Table 11-4 Software Package Dependency Licensing Information for flannel 0.13.0**

| Package Name                  | Version      | License                                    |
|-------------------------------|--------------|--------------------------------------------|
| cloud.google.com/go           | 7c205da84d8d | Apache License 2.0                         |
| github.com/Microsoft/hcsshim  | v0.8.6       | MIT License                                |
| github.com/PuerkitoBio/purell | v1.0.0       | BSD 3-Clause "New" or "Revised"<br>License |

**Table 11-4 (Cont.) Software Package Dependency Licensing Information for flannel 0.13.0**

| Package Name                                | Version      | License                                 |
|---------------------------------------------|--------------|-----------------------------------------|
| github.com/PuerkitoBio/urlesc               | 5bd2802263f2 | BSD 3-Clause "New" or "Revised" License |
| github.com/aws/aws-sdk-go                   | v1.12.54     | Apache License 2.0                      |
| github.com/bronzel1man/<br>goStrongswanVici | 4d72634a2f11 | MIT License                             |
| github.com/container networking/<br>plugins | v0.8.6       | Apache License 2.0                      |
| github.com/coreos/etcd                      | v3.1.11      | Apache License 2.0                      |
| github.com/coreos/go-iptables               | v0.4.5       | Apache License 2.0                      |
| github.com/coreos/go-systemd                | 39ca1b05acc7 | Apache License 2.0                      |
| github.com/coreos/pkg                       | 3ac0863d7acf | Apache License 2.0                      |
| github.com/denverdino/aliyungo              | f6cab0c35083 | Apache License 2.0                      |
| github.com/docker/distribution              | v2.4.0       | Apache License 2.0                      |
| github.com/emicklei/go-restful              | 09691a3b6378 | MIT License                             |
| github.com/ghodss/yaml                      | 73d445a93680 | MIT & BSD-3-Clause                      |
| github.com/go-ini/ini                       | v1.28.1      | Apache License 2.0                      |
| github.com/go-openapi/jsonpointer           | 46af16f9f7b1 | Apache License 2.0                      |
| github.com/go-openapi/jsonreference         | 13c6e3589ad9 | Apache License 2.0                      |
| github.com/go-openapi/spec                  | 6aced65f8501 | Apache-2.0                              |
| github.com/go-openapi/swag                  | 1d0bd113de87 | Apache License 2.0                      |
| github.com/gogo/protobuf                    | 909568be09de | BSD-3-Clause                            |
| github.com/golang/glog                      | 44145f04b68c | Apache License 2.0                      |
| github.com/google/gofuzz                    | 44d81051d367 | Apache License 2.0                      |
| github.com/howeyc/gopass                    | 3ca23474a7c7 | ISC License                             |
| github.com/imdario/mergo                    | 6633656539c1 | BSD 3-Clause "New" or "Revised" License |
| github.com/jmespath/go-jmespath             | bd40a432e4c7 | Apache-2.0                              |
| github.com/joho/godotenv                    | 726cc8b906e3 | MIT License                             |
| github.com/jonboulle/clockwork              | v0.1.0       | Apache License 2.0                      |
| github.com/juju/errors                      | c7d06af17c68 | LGPL-3.0-only                           |
| github.com/juju/ratelimit                   | 77ed1c8a0121 | LGPL-3.0-only                           |
| github.com/juju/testing                     | 4c23f9c453cd | LGPL-3.0-only                           |
| github.com/mailru/easyjson                  | d5b7844b561a | MIT License                             |
| github.com/niemeyer/pretty                  | a10e7caefd8e | MIT License                             |
| github.com/smartystreets/goconvey           | v1.6.4       | MIT                                     |
| github.com/spf13/pflag                      | 08b1a584251b | BSD 3-Clause "New" or "Revised" License |
| github.com/stevvooe/resumable               | 22b14a53ba50 | BSD 3-Clause "New" or "Revised" License |
| github.com/stretchr/testify                 | v1.6.1       | MIT License                             |
| github.com/ugorji/go                        | ded73eae5db7 | MIT License                             |
| github.com/vishvananda/netlink              | 023a6dafdcdf | Apache License 2.0                      |

**Table 11-4 (Cont.) Software Package Dependency Licensing Information for flannel 0.13.0**

| Package Name                 | Version      | License                                                 |
|------------------------------|--------------|---------------------------------------------------------|
| github.com/vishvananda/netns | 13995c7128cc | <a href="#">Apache License 2.0</a>                      |
| golang.org/x/net             | d8887717615a | <a href="#">BSD-3-Clause</a>                            |
| golang.org/x/oauth2          | 5432cc9688e6 | <a href="#">BSD 3-Clause "New" or "Revised" License</a> |
| google.golang.org/api        | e6586c9293b9 | <a href="#">BSD 3-Clause "New" or "Revised" License</a> |
| google.golang.org/appengine  | 4f7eeb5305a4 | <a href="#">Apache License 2.0</a>                      |
| gopkg.in/check.v1            | 8fa46927fb4f | <a href="#">BSD-2-Clause</a>                            |
| gopkg.in/inf.v0              | v0.9.0       | <a href="#">BSD-3-Clause</a>                            |
| gopkg.in/yaml.v1             | 9f9df34309c0 | <a href="#">Apache-2.0</a>                              |
| k8s.io/apimachinery          | 9603df80256c | <a href="#">Apache License 2.0</a>                      |
| k8s.io/client-go             | a95edf803628 | <a href="#">Apache License 2.0</a>                      |

**Table 11-5 Software Package Dependency Licensing Information for kubernetes-cni-plugins 0.9.1**

| Package Name                        | Version      | License                                                 |
|-------------------------------------|--------------|---------------------------------------------------------|
| github.com/Microsoft/go-winio       | v0.4.11      | <a href="#">MIT License</a>                             |
| github.com/Microsoft/hcsshim        | v0.8.6       | <a href="#">MIT License</a>                             |
| github.com/alexflint/go-filemutex   | 72bdc8eae2ae | <a href="#">MIT License</a>                             |
| github.com/buger/jsonparser         | f4dd9f5a6b44 | <a href="#">MIT License</a>                             |
| github.com/container networking/cni | v0.8.1       | <a href="#">Apache License 2.0</a>                      |
| github.com/coreos/go-iptables       | v0.5.0       | <a href="#">Apache License 2.0</a>                      |
| github.com/coreos/go-systemd        | 39ca1b05acc7 | <a href="#">Apache License 2.0</a>                      |
| github.com/d2g/dhcp4                | a1d1b6c41b1c | <a href="#">BSD 3-Clause "New" or "Revised" License</a> |
| github.com/d2g/dhcp4client          | v1.0.0       | <a href="#">Mozilla Public License 2.0</a>              |
| github.com/d2g/dhcp4server          | 7d4a0a7f59a5 | <a href="#">Mozilla Public License 2.0</a>              |
| github.com/d2g/hardwareaddr         | e7d9fbe030e4 | <a href="#">Mozilla Public License 2.0</a>              |
| github.com/godbus/dbus              | 885f9cc04c9c | <a href="#">BSD 2-Clause "Simplified" License</a>       |
| github.com/j-keck/arping            | 2cf9dc699c56 | <a href="#">MIT License</a>                             |
| github.com/mattn/go-shellwords      | v1.0.3       | <a href="#">MIT License</a>                             |
| github.com/onsi/ginkgo              | v1.12.1      | <a href="#">MIT License</a>                             |
| github.com/onsi/gomega              | v1.10.3      | <a href="#">MIT License</a>                             |
| github.com/safchain/ethtool         | 42ed695e3de8 | <a href="#">Apache License 2.0</a>                      |
| github.com/sirupsen/logrus          | v1.0.6       | <a href="#">MIT License</a>                             |
| github.com/stretchr/testify         | v1.3.0       | <a href="#">MIT License</a>                             |
| github.com/vishvananda/netlink      | d40f9887b852 | <a href="#">Apache License 2.0</a>                      |
| golang.org/x/sys                    | d9b008d0a637 | <a href="#">BSD-3-Clause</a>                            |
| gopkg.in/airbrake/gobrake.v2        | v2.0.9       | <a href="#">MIT License</a>                             |

**Table 11-5 (Cont.) Software Package Dependency Licensing Information for kubernetes-cni-plugins 0.9.1**

| Package Name                                                                                                           | Version | License                     |
|------------------------------------------------------------------------------------------------------------------------|---------|-----------------------------|
| <a href="https://github.com/gopkg.in/gemnasium/logrus-airbrake-hook.v2">gopkg.in/gemnasium/logrus-airbrake-hook.v2</a> | v2.1.2  | <a href="#">MIT License</a> |

**Table 11-6 Software Package Dependency Licensing Information for kubernetes 1.20.6**

| Package Name                                                                                                              | Version      | License                                                 |
|---------------------------------------------------------------------------------------------------------------------------|--------------|---------------------------------------------------------|
| <a href="https://bitbucket.org/bertimus9/systemstat">bitbucket.org/bertimus9/systemstat</a>                               | 0eeff89b0690 | <a href="#">MIT License</a>                             |
| <a href="https://github.com/Azure/azure-sdk-for-go">github.com/Azure/azure-sdk-for-go</a>                                 | v43.0.0      | <a href="#">MIT License</a>                             |
| <a href="https://github.com/Azure/go-autorest">github.com/Azure/go-autorest</a>                                           | v0.11.1      | <a href="#">Apache License 2.0</a>                      |
| <a href="https://github.com/Azure/go-autorest/autorest/adal">github.com/Azure/go-autorest/autorest/adal</a>               | v0.9.5       | <a href="#">Apache License 2.0</a>                      |
| <a href="https://github.com/Azure/go-autorest/autorest/to">github.com/Azure/go-autorest/autorest/to</a>                   | v0.2.0       | <a href="#">Apache License 2.0</a>                      |
| <a href="https://github.com/GoogleCloudPlatform/k8s-cloud-provider">github.com/GoogleCloudPlatform/k8s-cloud-provider</a> | 7901bc822317 | <a href="#">Apache License 2.0</a>                      |
| <a href="https://github.com/JeffAshton/win_pdh">github.com/JeffAshton/win_pdh</a>                                         | 76bb4ee9f0ab | <a href="#">BSD-3-Clause</a>                            |
| <a href="https://github.com/Microsoft/go-winio">github.com/Microsoft/go-winio</a>                                         | v0.4.15      | <a href="#">MIT License</a>                             |
| <a href="https://github.com/Microsoft/hcsshim">github.com/Microsoft/hcsshim</a>                                           | 5eafd1556990 | <a href="#">MIT License</a>                             |
| <a href="https://github.com/PuerkitoBio/purell">github.com/PuerkitoBio/purell</a>                                         | v1.1.1       | <a href="#">BSD 3-Clause "New" or "Revised" License</a> |
| <a href="https://github.com/armon/circbuf">github.com/armon/circbuf</a>                                                   | bbbad097214e | <a href="#">MIT License</a>                             |
| <a href="https://github.com/auth0/go-jwt-middleware">github.com/auth0/go-jwt-middleware</a>                               | 5493cabe49f7 | <a href="#">MIT License</a>                             |
| <a href="https://github.com/aws/aws-sdk-go">github.com/aws/aws-sdk-go</a>                                                 | v1.35.24     | <a href="#">Apache License 2.0</a>                      |
| <a href="https://github.com/blang/semver">github.com/blang/semver</a>                                                     | v3.5.1       | <a href="#">MIT License</a>                             |
| <a href="https://github.com/boltdb/bolt">github.com/boltdb/bolt</a>                                                       | v1.3.1       | <a href="#">MIT License</a>                             |
| <a href="https://github.com/caddyserver/caddy">github.com/caddyserver/caddy</a>                                           | v1.0.3       | <a href="#">Apache License 2.0</a>                      |
| <a href="https://github.com/clusterhq/flocker-go">github.com/clusterhq/flocker-go</a>                                     | 2b8b7259d313 | <a href="#">Apache License 2.0</a>                      |
| <a href="https://github.com/codegangsta/negroni">github.com/codegangsta/negroni</a>                                       | v1.0.0       | <a href="#">MIT License</a>                             |
| <a href="https://github.com/container-storage-interface/spec">github.com/container-storage-interface/spec</a>             | v1.2.0       | <a href="#">Apache License 2.0</a>                      |
| <a href="https://github.com/containernetworking/cni">github.com/containernetworking/cni</a>                               | v0.8.0       | <a href="#">Apache License 2.0</a>                      |
| <a href="https://github.com/coredns/corefile-migration">github.com/coredns/corefile-migration</a>                         | v1.0.10      | <a href="#">Apache License 2.0</a>                      |
| <a href="https://github.com/coreos/go-oidc">github.com/coreos/go-oidc</a>                                                 | v2.1.0       | <a href="#">Apache License 2.0</a>                      |
| <a href="https://github.com/coreos/go-systemd">github.com/coreos/go-systemd</a>                                           | 95778dfbb74e | <a href="#">Apache License 2.0</a>                      |
| <a href="https://github.com/coreos/pkg">github.com/coreos/pkg</a>                                                         | 399ea9e2e55f | <a href="#">Apache License 2.0</a>                      |
| <a href="https://github.com/cpuguy83/go-md2man/v2">github.com/cpuguy83/go-md2man/v2</a>                                   | v2.0.0       | <a href="#">MIT License</a>                             |



**Table 11-6 (Cont.) Software Package Dependency Licensing Information for kubernetes 1.20.6**

| Package Name                          | Version      | License                                       |
|---------------------------------------|--------------|-----------------------------------------------|
| github.com/davecgh/go-spew            | v1.1.1       | ISC License                                   |
| github.com/docker/distribution        | v2.7.1       | Apache License 2.0                            |
| github.com/docker/docker              | bd33bbf0497b | Apache License 2.0                            |
| github.com/docker/go-connections      | v0.4.0       | Apache License 2.0                            |
| github.com/docker/go-units            | v0.4.0       | Apache License 2.0                            |
| github.com/elazarl/goproxy            | 947c36da3153 | BSD 3-Clause "New" or "Revised" License       |
| github.com/emicklei/go-restful        | v2.9.5       | MIT License                                   |
| github.com/evanphx/json-patch         | v4.9.0       | BSD 3-Clause "New" or "Revised" License       |
| github.com/fsnotify/fsnotify          | v1.4.9       | BSD 3-Clause "New" or "Revised" License       |
| github.com/go-bindata/go-bindata      | v3.1.1       | CC0-1.0                                       |
| github.com/go-openapi/loads           | v0.19.4      | Apache License 2.0                            |
| github.com/go-openapi/spec            | v0.19.3      | Apache-2.0                                    |
| github.com/go-openapi/strfmt          | v0.19.3      | Apache License 2.0                            |
| github.com/go-openapi/validate        | v0.19.5      | Apache License 2.0                            |
| github.com/go-ozzo/ozzo-validation    | v3.5.0       | MIT License                                   |
| github.com/godbus/dbus/v5             | v5.0.3       | BSD 2-Clause "Simplified" License             |
| github.com/gogo/protobuf              | v1.3.2       | BSD-3-Clause                                  |
| github.com/golang/groupcache          | 8c9f03a8e57e | Apache License 2.0                            |
| github.com/golang/mock                | v1.4.1       | Apache License 2.0                            |
| github.com/google/cadvisor            | v0.38.8      | Apache-2.0                                    |
| github.com/google/go-cmp              | v0.5.2       | BSD 3-Clause "New" or "Revised" License       |
| github.com/google/gofuzz              | v1.1.0       | Apache License 2.0                            |
| github.com/google/uuid                | v1.1.2       | BSD 3-Clause "New" or "Revised" License       |
| github.com/googleapis/gnostic         | v0.4.1       | Apache License 2.0                            |
| github.com/gorilla/context            | v1.1.1       | BSD 3-Clause "New" or "Revised" License       |
| github.com/hashicorp/golang-lru       | v0.5.1       | Mozilla Public License 2.0                    |
| github.com/heketi/heketi              | c2e2a4ab7ab9 | LGPL-3.0-or-later & Apache-2.0 & GPL-2.0-only |
| github.com/heketi/tests               | f3775cbcefd6 | Apache License 2.0                            |
| github.com/ishidawataru/sctp          | 7c296d48a2b5 | Apache-2.0                                    |
| github.com/json-iterator/go           | v1.1.10      | MIT License                                   |
| github.com/libopenstorage/openstorage | v1.0.0       | Apache License 2.0                            |
| github.com/lithammer/dedent           | v1.1.0       | MIT License                                   |
| github.com/lpabon/godbc               | v0.1.1       | Apache License 2.0                            |

**Table 11-6 (Cont.) Software Package Dependency Licensing Information for kubernetes 1.20.6**

| Package Name                        | Version      | License                                 |
|-------------------------------------|--------------|-----------------------------------------|
| github.com/miekg/dns                | v1.1.4       | BSD-3-Clause                            |
| github.com/moby/ipvs                | v1.0.1       | Apache License 2.0                      |
| github.com/mohae/deepcopy           | 491d3605edfb | MIT License                             |
| github.com/mrunalp/fileutils        | abd8a0e76976 | Apache License 2.0                      |
| github.com/munnerz/goautoneg        | a7dc8b61c822 | BSD 3-Clause "New" or "Revised" License |
| github.com/mvdan/xurls              | v1.1.0       | BSD 3-Clause "New" or "Revised" License |
| github.com/onsi/ginkgo              | v1.11.0      | MIT License                             |
| github.com/onsi/gomega              | v1.7.0       | MIT License                             |
| github.com/opencontainers/go-digest | v1.0.0       | Apache-2.0                              |
| github.com/opencontainers/runc      | v1.0.0-rc92  | Apache License 2.0                      |
| github.com/opencontainers/selinux   | v1.6.0       | Apache License 2.0                      |
| github.com/pkg/errors               | v0.9.1       | BSD 2-Clause "Simplified" License       |
| github.com/pmezard/go-difflib       | v1.0.0       | BSD-3-Clause                            |
| github.com/prometheus/client_golang | v1.7.1       | Apache License 2.0                      |
| github.com/prometheus/client_model  | v0.2.0       | Apache License 2.0                      |
| github.com/prometheus/common        | v0.10.0      | Apache License 2.0                      |
| github.com/quobyte/api              | v0.1.8       | BSD 3-Clause "New" or "Revised" License |
| github.com/robfig/cron              | v1.1.0       | MIT License                             |
| github.com/spf13/afero              | v1.2.2       | Apache License 2.0                      |
| github.com/spf13/cobra              | v1.1.1       | Apache License 2.0                      |
| github.com/spf13/jwalterweatherman  | v1.1.0       | MIT License                             |
| github.com/spf13/pflag              | v1.0.5       | BSD 3-Clause "New" or "Revised" License |
| github.com/spf13/viper              | v1.7.0       | MIT License                             |
| github.com/storageos/go-api         | v2.2.0       | MIT & BSD-2-Clause                      |
| github.com/stretchr/testify         | v1.6.1       | MIT License                             |
| github.com/thecodeteam/goscaleio    | v0.1.0       | Apache License 2.0                      |
| github.com/urfave/negroni           | v1.0.0       | MIT License                             |
| github.com/vishvananda/netlink      | v1.1.0       | Apache License 2.0                      |
| github.com/vmware/govmomi           | v0.20.3      | Apache License 2.0                      |
| go.etcd.io/etcd                     | dd1b699fc489 | Apache License 2.0                      |
| golang.org/x/crypto                 | 7f63de1d35b0 | BSD-3-Clause                            |
| golang.org/x/net                    | 69a78807bb2b | BSD-3-Clause                            |

**Table 11-6 (Cont.) Software Package Dependency Licensing Information for kubernetes 1.20.6**

| Package Name                   | Version       | License                                 |
|--------------------------------|---------------|-----------------------------------------|
| golang.org/x/oauth2            | bf48bf16ab8d  | BSD 3-Clause "New" or "Revised" License |
| golang.org/x/sys               | 5cba982894dd  | BSD-3-Clause                            |
| golang.org/x/time              | 3af7569d3a1e  | BSD-3-Clause                            |
| golang.org/x/tools             | 113979e3529a  | BSD-3-Clause                            |
| gonum.org/v1/gonum             | v0.6.2        | BSD 3-Clause "New" or "Revised" License |
| gonum.org/v1/netlib            | 76723241ea4e  | BSD 3-Clause "New" or "Revised" License |
| google.golang.org/api          | v0.20.0       | BSD 3-Clause "New" or "Revised" License |
| google.golang.org/appengine    | v1.6.5        | Apache License 2.0                      |
| google.golang.org/grpc         | v1.27.1       | Apache License 2.0                      |
| gopkg.in/gcfg.v1               | v1.2.0        | BSD-3-Clause                            |
| gopkg.in/square/go-jose.v2     | v2.2.2        | Apache License 2.0                      |
| gopkg.in/yaml.v2               | v2.2.8        | Apache-2.0                              |
| k8s.io/api                     | v0.0.0        | Apache License 2.0                      |
| k8s.io/apiextensions-apiserver | v0.0.0        | Apache License 2.0                      |
| k8s.io/apimachinery            | v0.0.0        | Apache License 2.0                      |
| k8s.io/apiserver               | v0.0.0        | Apache License 2.0                      |
| k8s.io/cli-runtime             | v0.0.0        | Apache License 2.0                      |
| k8s.io/client-go               | v0.0.0        | Apache License 2.0                      |
| k8s.io/cloud-provider          | v0.0.0        | Apache License 2.0                      |
| k8s.io/cluster-bootstrap       | v0.0.0        | Apache License 2.0                      |
| k8s.io/code-generator          | v0.0.0        | Apache License 2.0                      |
| k8s.io/component-base          | v0.0.0        | Apache License 2.0                      |
| k8s.io/component-helpers       | v0.0.0        | Apache License 2.0                      |
| k8s.io/controller-manager      | v0.0.0        | Apache License 2.0                      |
| k8s.io/cri-api                 | v0.0.0        | Apache License 2.0                      |
| k8s.io/csi-translation-lib     | v0.0.0        | Apache License 2.0                      |
| k8s.io/gengo                   | 83324d819ded  | Apache License 2.0                      |
| k8s.io/heapster                | v1.2.0-beta.1 | Apache License 2.0                      |
| k8s.io/klog/v2                 | v2.4.0        | Apache License 2.0                      |
| k8s.io/kube-aggregator         | v0.0.0        | Apache License 2.0                      |
| k8s.io/kube-controller-manager | v0.0.0        | Apache License 2.0                      |
| k8s.io/kube-openapi            | d219536bb9fd  | Apache License 2.0                      |
| k8s.io/kube-proxy              | v0.0.0        | Apache License 2.0                      |
| k8s.io/kube-scheduler          | v0.0.0        | Apache License 2.0                      |
| k8s.io/kubectl                 | v0.0.0        | Apache License 2.0                      |
| k8s.io/kubelet                 | v0.0.0        | Apache License 2.0                      |
| k8s.io/legacy-cloud-providers  | v0.0.0        | Apache License 2.0                      |

**Table 11-6 (Cont.) Software Package Dependency Licensing Information for kubernetes 1.20.6**

| Package Name             | Version      | License                                |
|--------------------------|--------------|----------------------------------------|
| k8s.io/metrics           | v0.0.0       | <a href="#">Apache License 2.0</a>     |
| k8s.io/mount-utils       | v0.0.0       | <a href="#">Apache License 2.0</a>     |
| k8s.io/sample-apiserver  | v0.0.0       | <a href="#">Apache License 2.0</a>     |
| k8s.io/system-validators | v1.2.0       | <a href="#">Apache License 2.0</a>     |
| k8s.io/utils             | 67b214c5f920 | <a href="#">Apache License 2.0</a>     |
| sigs.k8s.io/yaml         | v1.2.0       | <a href="#">MIT &amp; BSD-3-Clause</a> |

## CRI-O

**Table 11-7 Software Package and Container Image Licensing Information for CRI-O**

| Component | RPM Packages                                          | Container Images     | License Information        | Dependencies                                                                            |
|-----------|-------------------------------------------------------|----------------------|----------------------------|-----------------------------------------------------------------------------------------|
| common    | common-2.0.26-1.<br>[ <i>platform</i> ].x86_64.rpm    | No container images. | <a href="#">Apache-2.0</a> | For software package dependency licensing information see <a href="#">Table 11-8</a> .  |
| cri-o     | cri-o-1.20.2-1.<br>[ <i>platform</i> ].x86_64.rpm     | No container images. | <a href="#">Apache-2.0</a> | For software package dependency licensing information see <a href="#">Table 11-9</a> .  |
| cri-tools | cri-tools-1.20.0-1.<br>[ <i>platform</i> ].x86_64.rpm | No container images. | <a href="#">Apache-2.0</a> | For software package dependency licensing information see <a href="#">Table 11-10</a> . |

**Table 11-8 Software Package Dependency Licensing Information for common 2.0.26**

| Package Name | Version | License                                                       |
|--------------|---------|---------------------------------------------------------------|
| glibc-static | 2.17    | <a href="#">LGPLv2+ and LGPLv2+ with exceptions and GPLv2</a> |
| glib2-devel  | 2.56.1  | <a href="#">LGPLv2+</a>                                       |
| glibc-devel  | 2.17    | <a href="#">LGPLv2+ and LGPLv2+ with exceptions and GPLv2</a> |
| pkgconfig    | 0.27.1  | <a href="#">GPLv2+</a>                                        |

**Table 11-9 Software Package Dependency Licensing Information for cri-o 1.20.2**

| Package Name                             | Version      | License                                                 |
|------------------------------------------|--------------|---------------------------------------------------------|
| github.com/BurntSushi/toml               | v0.3.1       | <a href="#">MIT License</a>                             |
| github.com/Microsoft/go-winio            | v0.4.16      | <a href="#">MIT License</a>                             |
| github.com/blang/semver                  | v3.5.1       | <a href="#">MIT License</a>                             |
| github.com/containerd/cgroups            | 4cbc285b3327 | <a href="#">Apache License 2.0</a>                      |
| github.com/containerd/containerd         | v1.4.1       | <a href="#">Apache License 2.0</a>                      |
| github.com/containerd/ttrpc              | v1.0.2       | <a href="#">Apache License 2.0</a>                      |
| github.com/containerd/networking/cni     | v0.8.0       | <a href="#">Apache License 2.0</a>                      |
| github.com/containerd/networking/plugins | v0.8.7       | <a href="#">Apache License 2.0</a>                      |
| github.com/containerd/buildah            | v1.15.2      | <a href="#">Apache License 2.0</a>                      |
| github.com/containerd/common             | v0.21.0      | <a href="#">Apache License 2.0</a>                      |
| github.com/containerd/conmon             | v2.0.20      | <a href="#">Apache License 2.0</a>                      |
| github.com/containerd/image/v5           | v5.10.1      | <a href="#">Apache License 2.0</a>                      |
| github.com/containerd/libpod/v2          | v2.0.6       | <a href="#">Apache License 2.0</a>                      |
| github.com/containerd/ocicrypt           | v1.0.3       | <a href="#">Apache License 2.0</a>                      |
| github.com/containerd/storage            | v1.24.5      | <a href="#">Apache License 2.0</a>                      |
| github.com/coreos/go-systemd/v22         | v22.1.0      | <a href="#">Apache License 2.0</a>                      |
| github.com/cpuguy83/go-md2man            | v1.0.10      | <a href="#">MIT License</a>                             |
| github.com/creack/pty                    | v1.1.11      | <a href="#">MIT License</a>                             |
| github.com/cri-o/ocicni                  | 513ef787b8c9 | <a href="#">Apache License 2.0</a>                      |
| github.com/cyphar/filepath-securejoin    | v0.2.2       | <a href="#">BSD 3-Clause "New" or "Revised" License</a> |
| github.com/docker/distribution           | v2.7.1       | <a href="#">Apache License 2.0</a>                      |
| github.com/docker/go-units               | v0.4.0       | <a href="#">Apache License 2.0</a>                      |
| github.com/fsnotify/fsnotify             | v1.4.9       | <a href="#">BSD 3-Clause "New" or "Revised" License</a> |
| github.com/go-zoo/bone                   | v1.3.0       | <a href="#">MIT License</a>                             |
| github.com/godbus/dbus/v5                | v5.0.3       | <a href="#">BSD 2-Clause "Simplified" License</a>       |
| github.com/gogo/protobuf                 | v1.3.2       | <a href="#">BSD-3-Clause</a>                            |
| github.com/golang/mock                   | v1.4.4       | <a href="#">Apache License 2.0</a>                      |
| github.com/google/renameio               | v0.1.0       | <a href="#">Apache License 2.0</a>                      |

**Table 11-9 (Cont.) Software Package Dependency Licensing Information for cri-o 1.20.2**

| Package Name                                 | Version      | License                                 |
|----------------------------------------------|--------------|-----------------------------------------|
| github.com/google/uuid                       | v1.1.4       | BSD 3-Clause "New" or "Revised" License |
| github.com/grpc-ecosystem/go-grpc-middleware | v1.2.0       | Apache License 2.0                      |
| github.com/hashicorp/errwrap                 | v1.1.0       | Mozilla Public License 2.0              |
| github.com/hpcloud/tail                      | v1.0.0       | MIT                                     |
| github.com/json-iterator/go                  | v1.1.10      | MIT License                             |
| github.com/onsi/ginkgo                       | v1.14.1      | MIT License                             |
| github.com/onsi/gomega                       | v1.10.3      | MIT License                             |
| github.com/opencontainers/go-digest          | v1.0.0       | Apache-2.0                              |
| github.com/opencontainers/image-spec         | 79b036d80240 | Apache License 2.0                      |
| github.com/opencontainers/runc               | v1.0.0-rc92  | Apache License 2.0                      |
| github.com/opencontainers/runtime-spec       | 4d89ac9fbff6 | Apache License 2.0                      |
| github.com/opencontainers/runtime-tools      | 07406c5828aa | Apache License 2.0                      |
| github.com/opencontainers/selinux            | v1.8.0       | Apache License 2.0                      |
| github.com/pkg/errors                        | v0.9.1       | BSD 2-Clause "Simplified" License       |
| github.com/pquerna/ffjson                    | aa0246cd15f7 | Apache License 2.0                      |
| github.com/prometheus/client_golang          | v1.7.1       | Apache License 2.0                      |
| github.com/psampaz/go-mod-outdated           | v0.7.0       | MIT License                             |
| github.com/sirupsen/logrus                   | v1.7.0       | MIT License                             |
| github.com/soheilhy/cmux                     | v0.1.4       | Apache License 2.0                      |
| github.com/stretchr/testify                  | v1.7.0       | MIT License                             |
| github.com/syndtr/gocapability               | d98352740cb2 | BSD 2-Clause "Simplified" License       |
| github.com/urfave/cli/v2                     | v2.2.0       | MIT License                             |
| github.com/vishvananda/netlink               | v1.1.0       | Apache License 2.0                      |
| golang.org/x/net                             | 6772e930b67b | BSD-3-Clause                            |
| golang.org/x/sync                            | 67f06af15bc9 | BSD-3-Clause                            |
| golang.org/x/sys                             | 16f7687f5001 | BSD-3-Clause                            |
| google.golang.org/grpc                       | v1.33.2      | Apache License 2.0                      |
| k8s.io/api                                   | v0.19.2      | Apache License 2.0                      |
| k8s.io/apimachinery                          | v0.19.2      | Apache License 2.0                      |
| k8s.io/client-go                             | v0.18.8      | Apache License 2.0                      |

**Table 11-9 (Cont.) Software Package Dependency Licensing Information for cri-o 1.20.2**

| Package Name      | Version      | License                                 |
|-------------------|--------------|-----------------------------------------|
| k8s.io/cri-api    | v0.0.0       | Apache License 2.0                      |
| k8s.io/klog/v2    | v2.4.0       | Apache License 2.0                      |
| k8s.io/kubernetes | v1.19.2      | Apache License 2.0                      |
| k8s.io/release    | v0.6.0       | Apache License 2.0                      |
| k8s.io/utils      | 67b214c5f920 | Apache License 2.0                      |
| mvdan.cc/sh/v3    | v3.2.0       | BSD 3-Clause "New" or "Revised" License |

**Table 11-10 Software Package Dependency Licensing Information for cri-tools 1.20.0**

| Package Name                        | Version      | License                                 |
|-------------------------------------|--------------|-----------------------------------------|
| github.com/docker/distribution      | v2.7.1       | Apache License 2.0                      |
| github.com/docker/docker            | c7109494fe65 | Apache License 2.0                      |
| github.com/docker/go-units          | v0.4.0       | Apache License 2.0                      |
| github.com/golang/glog              | 23def4e6c14b | Apache License 2.0                      |
| github.com/golang/protobuf          | v1.4.3       | BSD 3-Clause "New" or "Revised" License |
| github.com/onsi/ginkgo              | v1.14.2      | MIT License                             |
| github.com/onsi/gomega              | v1.10.3      | MIT License                             |
| github.com/opencontainers/go-digest | v1.0.0       | Apache-2.0                              |
| github.com/opencontainers/selinux   | v1.6.0       | Apache License 2.0                      |
| github.com/pborman/uuid             | v1.2.1       | BSD 3-Clause "New" or "Revised" License |
| github.com/pkg/errors               | v0.9.1       | BSD 2-Clause "Simplified" License       |
| github.com/sirupsen/logrus          | v1.7.0       | MIT License                             |
| github.com/urfave/cli/v2            | v2.3.0       | MIT License                             |
| golang.org/x/net                    | 69a78807bb2b | BSD-3-Clause                            |
| golang.org/x/sys                    | 5cba982894dd | BSD-3-Clause                            |
| google.golang.org/grpc              | v1.33.2      | Apache License 2.0                      |
| gopkg.in/yaml.v3                    | eeeca48fe776 | Apache-2.0                              |
| k8s.io/api                          | v0.0.0       | Apache License 2.0                      |
| k8s.io/apimachinery                 | v0.0.0       | Apache License 2.0                      |
| k8s.io/client-go                    | v11.0.0      | Apache License 2.0                      |
| k8s.io/cri-api                      | v0.0.0       | Apache License 2.0                      |
| k8s.io/kubectl                      | v0.0.0       | Apache License 2.0                      |
| k8s.io/kubernetes                   | v0.0.0       | Apache License 2.0                      |
| sigs.k8s.io/yaml                    | v1.2.0       | MIT & BSD-3-Clause                      |

## Kata Containers

**Table 11-11 Software Package and Container Image Licensing Information for Kata Containers**

| Component          | RPM Packages                                                  | Container Images     | License Information        | Dependencies                                                                            |
|--------------------|---------------------------------------------------------------|----------------------|----------------------------|-----------------------------------------------------------------------------------------|
| kata-ksm-throttler | kata-ksm-throttler-1.12.1-2.<br><b>[platform]</b> .x86_64.rpm | No container images. | <a href="#">Apache-2.0</a> | For software package dependency licensing information see <a href="#">Table 11-12</a> . |
| kata-proxy         | kata-proxy-1.12.1-2.<br><b>[platform]</b> .x86_64.rpm         | No container images. | <a href="#">Apache-2.0</a> | For software package dependency licensing information see <a href="#">Table 11-13</a> . |
| kata-runtime       | kata-runtime-1.12.1-2.<br><b>[platform]</b> .x86_64.rpm       | No container images. | <a href="#">Apache-2.0</a> | For software package dependency licensing information see <a href="#">Table 11-14</a> . |
| kata-shim          | kata-shim-1.12.1-2.<br><b>[platform]</b> .x86_64.rpm          | No container images. | <a href="#">Apache-2.0</a> | For software package dependency licensing information see <a href="#">Table 11-15</a> . |
| kata-image         |                                                               | No container images. | <a href="#">Apache-2.0</a> | For software package dependency licensing information see <a href="#">Table 11-16</a> . |

**Table 11-12 Software Package Dependency Licensing Information for kata-ksm-throttler 1.12.1**

| Package Name                  | Version                                  | License                                                 |
|-------------------------------|------------------------------------------|---------------------------------------------------------|
| github.com/davecgh/go-spew    | v1.1.0                                   | <a href="#">ISC License</a>                             |
| github.com/fsnotify/fsnotify  | 4da3e2cfbabc9f751898f250b49f2439785783a1 | <a href="#">BSD 3-Clause "New" or "Revised" License</a> |
| github.com/golang/protobuf    | 1e59b77b52bf8e4b449a57e6f79f21226d571845 | <a href="#">BSD 3-Clause "New" or "Revised" License</a> |
| github.com/pmezard/go-difflib | v1.0.0                                   | <a href="#">BSD-3-Clause</a>                            |
| github.com/sirupsen/logrus    | v1.0.3                                   | <a href="#">MIT License</a>                             |



**Table 11-12 (Cont.) Software Package Dependency Licensing Information for kata-ksm-throttler 1.12.1**

| Package Name                  | Version                                  | License            |
|-------------------------------|------------------------------------------|--------------------|
| github.com/stretchchr/testify | 2aa2c176b9dab406a6970f6a55f513e8a8c8b18f | MIT License        |
| golang.org/x/crypto           | 9f005a07e0d31d45e6656d241bb5c0f2efd4bc94 | BSD-3-Clause       |
| golang.org/x/net              | a337091b0525af65de94df2eb7e98bd9962dcbe2 | BSD-3-Clause       |
| golang.org/x/sys              | bf42f188b9bc6f2cf5b8ee5a912ef1aedd0eba4c | BSD-3-Clause       |
| golang.org/x/text             | 88f656faf3f37f690df1a32515b479415e1a6769 | BSD-3-Clause       |
| google.golang.org/genproto    | 11c7f9e547da6db876260ce49ea7536985904c9b | Apache License 2.0 |
| google.golang.org/grpc        | v1.7.3                                   | Apache License 2.0 |

**Table 11-13 Software Package Dependency Licensing Information for kata-proxy 1.12.1**

| Package Name                  | Version                                  | License                    |
|-------------------------------|------------------------------------------|----------------------------|
| github.com/davecgh/go-spew    | v1.1.0                                   | ISC License                |
| github.com/hashicorp/yamux    | f5742cb6                                 | Mozilla Public License 2.0 |
| github.com/pmezard/go-difflib | v1.0.0                                   | BSD-3-Clause               |
| github.com/sirupsen/logrus    | v1.0.4                                   | MIT License                |
| github.com/stretchchr/testify | v1.2.1                                   | MIT License                |
| golang.org/x/crypto           | 13931e22f9e72ea58bb73048bc752b48c6d4d4ac | BSD-3-Clause               |
| golang.org/x/sys              | 810d7000345868fc619eb81f46307107118f4ae1 | BSD-3-Clause               |

**Table 11-14 Software Package Dependency Licensing Information for kata-runtime 1.12.1**

| Package Name                      | Version                                  | License                                 |
|-----------------------------------|------------------------------------------|-----------------------------------------|
| github.com/BurntSushi/toml        | v0.3.1                                   | MIT License                             |
| github.com/Microsoft/go-winio     | v0.4.12                                  | MIT License                             |
| github.com/Microsoft/hcsshim      | v0.8.6                                   | MIT License                             |
| github.com/PuerkitoBio/purell     | v1.1.1                                   | BSD 3-Clause "New" or "Revised" License |
| github.com/PuerkitoBio/urlesc     | de5bf2ad457846296e2031421a34e2568e304e35 | BSD 3-Clause "New" or "Revised" License |
| github.com/asaskevich/govalidator | ccb8e960c48f04d6935e72476ae4a51028f9e22f | MIT License                             |

**Table 11-14 (Cont.) Software Package Dependency Licensing Information for kata-runtime 1.12.1**

| Package Name                             | Version                                  | License            |
|------------------------------------------|------------------------------------------|--------------------|
| github.com/blang/semver                  | v3.6.1                                   | MIT License        |
| github.com/cilium/ebpf                   | c8f8abaa9ece88e9be5b888e23e130e726d9afa4 | MIT License        |
| github.com/codahale/hdrhistogram         | 3a0bb77429bd3a61596f5e8a3172445844342120 | MIT License        |
| github.com/containerd/cgroups            | c4b9ac5c7601384c965b9646fc515884e091ebb9 | Apache License 2.0 |
| github.com/containerd/console            | 0650fd9eeb50bab4fc99dceb9f2e14cf58f36e7f | Apache License 2.0 |
| github.com/containerd/containerd         | f05672357f56f26751a521175c5a96fc21fa8603 | Apache License 2.0 |
| github.com/containerd/cri-containerd     | 4dd6735020f5596dd41738f8c4f5cb07fa804c5e | Apache License 2.0 |
| github.com/containerd/fifo               | a9fb20d87448d386e6d50b1f2e1fa70dcf0de43c | Apache License 2.0 |
| github.com/containerd/gorunc             | 7d11b49dc0769f6dbb0d1b19f3d48524d1bad9ad | Apache License 2.0 |
| github.com/containerd/ttrpc              | 92c8520ef9f86600c650dd540266a007bf03670f | Apache License 2.0 |
| github.com/containerd/typeurl            | 2a93cfde8c20b23de8eb84a5adbc234ddf7a9e8d | Apache License 2.0 |
| github.com/containerd/networking/cni     | v0.7.1                                   | Apache License 2.0 |
| github.com/containerd/networking/plugins | 485be65581341430f9106a194a98f0f2412245fb | Apache License 2.0 |
| github.com/coreos/go-systemd             | 9002847aa1425fb6ac49077c0a630b3b67e0fbfd | Apache License 2.0 |
| github.com/cri-o/cri-o                   | 3394b3b2d6af0e41d185bb695c6378be5dd4d61d | Apache License 2.0 |
| github.com/davecgh/go-spew               | v1.1.1                                   | ISC License        |
| github.com/dlespiau/covertool            | b0c4c6d0583aae4e3b5d12b6ec47767670548cc4 | Apache License 2.0 |
| github.com/docker/go-units               | v0.3.3                                   | Apache License 2.0 |
| github.com/globalsign/mgo                | eeefdec41b842af6dc652aaea4026e8403e62df  | BSD-2-Clause       |
| github.com/go-ini/inifile                | 20b96f641a5ea98f2f8619ff4f3e061cff4833bd | Apache License 2.0 |
| github.com/go-logr/logr                  | v0.2.0                                   | Apache License 2.0 |
| github.com/go-openapi/analysis           | v0.18.0                                  | Apache License 2.0 |
| github.com/go-openapi/errors             | v0.18.0                                  | Apache License 2.0 |
| github.com/go-openapi/jsonpointer        | v0.18.0                                  | Apache License 2.0 |
| github.com/go-openapi/jsonreference      | v0.18.0                                  | Apache License 2.0 |
| github.com/go-openapi/loads              | v0.18.0                                  | Apache License 2.0 |

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| Package Name                                       | Version                                      | License                                 |
|----------------------------------------------------|----------------------------------------------|-----------------------------------------|
| github.com/go-openapi/runtime                      | v0.18.0                                      | Apache License 2.0                      |
| github.com/go-openapi/spec                         | v0.18.0                                      | Apache-2.0                              |
| github.com/go-openapi/strfmt                       | v0.18.0                                      | Apache License 2.0                      |
| github.com/go-openapi/swag                         | v0.18.0                                      | Apache License 2.0                      |
| github.com/go-openapi/validate                     | v0.18.0                                      | Apache License 2.0                      |
| github.com/godbus/dbus                             | v5.0.1                                       | BSD 2-Clause "Simplified" License       |
| github.com/gogo/protobuf                           | 4cbf7e384e768b4e01799441f<br>df2a706a5635ae7 | BSD-3-Clause                            |
| github.com/golang/protobuf                         | v1.3.0                                       | BSD 3-Clause "New" or "Revised" License |
| github.com/grpc-ecosystem/grpc-opentracing         | 8e809c8a86450a29b90dcc9ef<br>bf062d0fe6d9746 | BSD-3-Clause                            |
| github.com/hashicorp/errwrap                       | v1.0.0                                       | Mozilla Public License 2.0              |
| github.com/hashicorp/go-multierror                 | v1.0.0                                       | Mozilla Public License 2.0              |
| github.com/hashicorp/yamux                         | 2f1d1f20f75d5404f53b9edf6b<br>53ed5505508675 | Mozilla Public License 2.0              |
| github.com/kata-containers/agent                   | e921aa3d0fa39cbd7933c15bd<br>6ae7f0a1d7ab757 | Apache License 2.0                      |
| github.com/kata-containers/govmm                   | 7d320e8f5dcad260c1723bda3<br>bff21539750d51f | Apache License 2.0                      |
| github.com/konsorten/go-windows-terminal-sequences | v1.0.2                                       | MIT License                             |
| github.com/mailru/easyjson                         | 6243d8e04c3f819e79757e8bc<br>3faa15c3cb27003 | MIT License                             |
| github.com/mdlayher/vsock                          | 7b7533a7ca4eba7dd23dab2d<br>e70e25ca6eef7e2  | MIT License                             |
| github.com/mitchellh/mapstructure                  | d0303fe809921458f417bcf82<br>8397a65db30a7e4 | MIT License                             |
| github.com/opencontainers/go-digest                | v1.0.0-rc1                                   | Apache-2.0                              |
| github.com/opencontainers/runc                     | 2b52db75279ca687e18156de<br>86d845876e9ef35d | Apache License 2.0                      |
| github.com/opencontainers/runtime-spec             | a1b50f621a48ad13f8f696a16<br>2f684a241307db0 | Apache License 2.0                      |
| github.com/opencontainers/selinux                  | v1.4.0                                       | Apache License 2.0                      |
| github.com/opentracing/opentracing-go              | v1.0.2                                       | Apache License 2.0                      |
| github.com/pkg/errors                              | v0.8.1                                       | BSD 2-Clause "Simplified" License       |
| github.com/pmezard/go-difflib                      | v1.0.0                                       | BSD-3-Clause                            |

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| Package Name                         | Version                                  | License                                 |
|--------------------------------------|------------------------------------------|-----------------------------------------|
| github.com/prometheus/procfs         | af7bedc223fba51343f25a6fa7aba84355d0357a | Apache License 2.0                      |
| github.com/safchain/ethtool          | 79559b488d8848b53a8e34c330140c3fc37ee246 | Apache License 2.0                      |
| github.com/seccomp/libseccomp-golang | v0.9.0                                   | BSD 2-Clause "Simplified" License       |
| github.com/sirupsen/logrus           | v1.4.2                                   | MIT License                             |
| github.com/stretchr/testify          | 890a5c3458b43e6104ff5da8dfa139d013d77544 | MIT License                             |
| github.com/uber/jaeger-client-go     | v2.15.0                                  | Apache License 2.0                      |
| github.com/uber/jaeger-lib           | v1.5.0                                   | Apache License 2.0                      |
| github.com/urfave/cli                | ac249472b7de27a9e8990819566d9be95ab5b816 | MIT License                             |
| github.com/vishvananda/netlink       | c8c507c80ea28385caac72b682dd066e44943913 | Apache License 2.0                      |
| github.com/vishvananda/netns         | 86bef332bfc3b59b7624a600bd53009ce91a9829 | Apache License 2.0                      |
| golang.org/x/net                     | a8b9294777976932365dabb6640cf1468d95c70f | BSD-3-Clause                            |
| golang.org/x/oauth2                  | 5d9234df094ce600ff541158d1491aa10d078a47 | BSD 3-Clause "New" or "Revised" License |
| golang.org/x/sys                     | b016eb3dc98ea7f69ed55e8216b87187067ae621 | BSD-3-Clause                            |
| golang.org/x/text                    | v0.3.0                                   | BSD-3-Clause                            |
| google.golang.org/appengine          | v1.6.5                                   | Apache License 2.0                      |
| google.golang.org/genproto           | 5fe7a883aa19554f42890211544aa549836af7b7 | Apache License 2.0                      |
| google.golang.org/grpc               | d11072e7ca9811b1100b80ca0269ac831f06d024 | Apache License 2.0                      |
| gopkg.in/yaml.v2                     | v2.2.2                                   | Apache-2.0                              |
| k8s.io/klog                          | v2.2.0                                   | Apache License 2.0                      |
| k8s.io/kubernetes                    | v1.18.4                                  | Apache License 2.0                      |

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| Package Name                     | Version                                  | License            |
|----------------------------------|------------------------------------------|--------------------|
| github.com/Azure/go-ansiterm     | d6e3b3328b783f23731bc4d058875b0371ff8109 | MIT License        |
| github.com/codahale/hdrhistogram | 3a0bb77429bd3a61596f5e8a3172445844342120 | MIT License        |
| github.com/davecgh/go-spew       | v1.1.0                                   | ISC License        |
| github.com/docker/docker         | bc183a0062c1283cfc47f42ec78501868629dd2b | Apache License 2.0 |

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| Package Name                                       | Version                                  | License                                                 |
|----------------------------------------------------|------------------------------------------|---------------------------------------------------------|
| github.com/gogo/protobuf                           | 4cbf7e384e768b4e01799441fdf2a706a5635ae7 | <a href="#">BSD-3-Clause</a>                            |
| github.com/golang/protobuf                         | 1e59b77b52bf8e4b449a57e6f79f21226d571845 | <a href="#">BSD 3-Clause "New" or "Revised" License</a> |
| github.com/grpc-ecosystem/grpc-opentracing         | 8e809c8a86450a29b90dcc9efbf062d0fe6d9746 | <a href="#">BSD-3-Clause</a>                            |
| github.com/hashicorp/yamux                         | cc6d2ea263b2471faabce371255777a365bf8306 | <a href="#">Mozilla Public License 2.0</a>              |
| github.com/kata-containers/agent                   | 5bf8d4cc4614d0e0b3202f0a39d723195e341df8 | <a href="#">Apache License 2.0</a>                      |
| github.com/konsorten/go-windows-terminal-sequences | v1.0.2                                   | <a href="#">MIT License</a>                             |
| github.com/kr/pty                                  | v1.1.0                                   | <a href="#">MIT License</a>                             |
| github.com/mdlayher/vsock                          | 7b7533a7ca4eba7dd23dab2de70e25ca6eecd7e2 | <a href="#">MIT License</a>                             |
| github.com/moby/moby                               | v1.13.1                                  | <a href="#">Apache License 2.0</a>                      |
| github.com/opencontainers/runtime-spec             | a1b50f621a48ad13f8f696a162f684a241307db0 | <a href="#">Apache License 2.0</a>                      |
| github.com/opentracing/opentracing-go              | v1.0.2                                   | <a href="#">Apache License 2.0</a>                      |
| github.com/pkg/errors                              | v0.8.0                                   | <a href="#">BSD 2-Clause "Simplified" License</a>       |
| github.com/pmezard/go-difflib                      | v1.0.0                                   | <a href="#">BSD-3-Clause</a>                            |
| github.com/sirupsen/logrus                         | v1.4.2                                   | <a href="#">MIT License</a>                             |
| github.com/stretchr/testify                        | v1.2.0                                   | <a href="#">MIT License</a>                             |
| github.com/uber/jaeger-client-go                   | v2.15.0                                  | <a href="#">Apache License 2.0</a>                      |
| github.com/uber/jaeger-lib                         | v1.5.0                                   | <a href="#">Apache License 2.0</a>                      |
| golang.org/x/net                                   | a8b9294777976932365dabb6640cf1468d95c70f | <a href="#">BSD-3-Clause</a>                            |
| golang.org/x/sys                                   | 810d7000345868fc619eb81f46307107118f4ae1 | <a href="#">BSD-3-Clause</a>                            |
| golang.org/x/text                                  | e19ae1496984b1c655b8044a65c0300a3c878dd3 | <a href="#">BSD-3-Clause</a>                            |
| google.golang.org/genproto                         | a8101f21cf983e773d0c1133ebc5424792003214 | <a href="#">Apache License 2.0</a>                      |
| google.golang.org/grpc                             | d11072e7ca9811b1100b80ca0269ac831f06d024 | <a href="#">Apache License 2.0</a>                      |

**Table 11-16 Software Package Dependency Licensing Information for kata-image 1.12.1**

| Package Name | Version | License                                                                 |
|--------------|---------|-------------------------------------------------------------------------|
| golang       | 1.12.17 | BSD                                                                     |
| yq           | 2.4.0   | MIT                                                                     |
| util-linux   | 2.23.2  | GPLv2 and GPLv2+ and LGPLv2+ and BSD with advertising and Public Domain |
| e2fsprogs    | 1.42.9  | GPLv2                                                                   |
| qemu-img     | 1.5.3   | GPLv2 and GPLv2+ and CC-BY                                              |
| parted       | 3.1     | GPLv3+                                                                  |

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```

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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|                |           |           |            |         |
|----------------|-----------|-----------|------------|---------|
| 1.3 thru 1.5.2 | 1.2       | 1995-1999 | CNRI       | yes     |
| 1.6            | 1.5.2     | 2000      | CNRI       | no      |
| 2.0            | 1.6       | 2000      | BeOpen.com | no      |
| 1.6.1          | 1.6       | 2001      | CNRI       | yes (2) |
| 2.1            | 2.0+1.6.1 | 2001      | PSF        | no      |
| 2.0.1          | 2.0+1.6.1 | 2001      | PSF        | yes     |
| 2.1.1          | 2.1+2.0.1 | 2001      | PSF        | yes     |
| 2.1.2          | 2.1.1     | 2002      | PSF        | yes     |
| 2.1.3          | 2.1.2     | 2002      | PSF        | yes     |
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#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |



|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.2.1 | 2.2   | 2002      | PSF | yes |
| 2.2.2 | 2.2.1 | 2002      | PSF | yes |
| 2.2.3 | 2.2.2 | 2003      | PSF | yes |
| 2.3   | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3   | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
| 2.3.5 | 2.3.4 | 2005      | PSF | yes |
| 2.4   | 2.3   | 2004      | PSF | yes |
| 2.4.1 | 2.4   | 2005      | PSF | yes |
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| 2.4.4 | 2.4.3 | 2006      | PSF | yes |
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| 2.5.1 | 2.5   | 2007      | PSF | yes |
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| 2.6.3 | 2.6.2 | 2009      | PSF | yes |
| 2.6.4 | 2.6.3 | 2009      | PSF | yes |
| 2.6.5 | 2.6.4 | 2010      | PSF | yes |
| 2.7   | 2.6   | 2010      | PSF | yes |

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#### A. HISTORY OF THE SOFTWARE

Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner | GPL-compatible? (1) |
|----------------|--------------|-----------|-------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI   | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI  | yes                 |

|               |           |          |            |         |
|---------------|-----------|----------|------------|---------|
| 1.6           | 1.5.2     | 2000     | CNRI       | no      |
| 2.0           | 1.6       | 2000     | BeOpen.com | no      |
| 1.6.1         | 1.6       | 2001     | CNRI       | yes (2) |
| 2.1           | 2.0+1.6.1 | 2001     | PSF        | no      |
| 2.0.1         | 2.0+1.6.1 | 2001     | PSF        | yes     |
| 2.1.1         | 2.1+2.0.1 | 2001     | PSF        | yes     |
| 2.1.2         | 2.1.1     | 2002     | PSF        | yes     |
| 2.1.3         | 2.1.2     | 2002     | PSF        | yes     |
| 2.2 and above | 2.1.1     | 2001-now | PSF        | yes     |

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#### A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see <http://www.opensource.org> for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.2            | 2.1.1        | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2.1          | 2.2          | 2002      | PSF        | yes                 |



|       |       |           |     |     |
|-------|-------|-----------|-----|-----|
| 2.2.2 | 2.2.1 | 2002      | PSF | yes |
| 2.2.3 | 2.2.2 | 2003      | PSF | yes |
| 2.3   | 2.2.2 | 2002-2003 | PSF | yes |
| 2.3.1 | 2.3   | 2002-2003 | PSF | yes |
| 2.3.2 | 2.3.1 | 2002-2003 | PSF | yes |
| 2.3.3 | 2.3.2 | 2002-2003 | PSF | yes |
| 2.3.4 | 2.3.3 | 2004      | PSF | yes |
| 2.3.5 | 2.3.4 | 2005      | PSF | yes |
| 2.4   | 2.3   | 2004      | PSF | yes |
| 2.4.1 | 2.4   | 2005      | PSF | yes |
| 2.4.2 | 2.4.1 | 2005      | PSF | yes |
| 2.4.3 | 2.4.2 | 2006      | PSF | yes |
| 2.4.4 | 2.4.3 | 2006      | PSF | yes |
| 2.5   | 2.4   | 2006      | PSF | yes |
| 2.5.1 | 2.5   | 2007      | PSF | yes |
| 2.5.2 | 2.5.1 | 2008      | PSF | yes |
| 2.5.3 | 2.5.2 | 2008      | PSF | yes |
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| 2.6.1 | 2.6   | 2008      | PSF | yes |
| 2.6.2 | 2.6.1 | 2009      | PSF | yes |
| 2.6.3 | 2.6.2 | 2009      | PSF | yes |
| 2.6.4 | 2.6.3 | 2009      | PSF | yes |
| 2.6.5 | 2.6.4 | 2010      | PSF | yes |
| 2.7   | 2.6   | 2010      | PSF | yes |

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- (2) According to Richard Stallman, 1.6.1 is not GPL-compatible, because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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wheel 0.32.3

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enum34 1.1.6

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PyJWT 1.7.1
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python-dateutil 2.8.1

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urllib3

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raw=1#  
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Just configure this file as the SSLCertificateFile.#

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cryptography 3.4.7

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