

Licensing Information User Manual
Oracle® ZFS Storage Appliance Software,
Release OS8.8.x

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ORACLE®

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August 2020

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◆◆◆ CHAPTER 1

Introduction

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◆◆◆ CHAPTER 2

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This section provides license information about certain Oracle ZFS Storage Appliance features, other Oracle technologies, and third party technologies:

- [“Separately Licensed Oracle ZFS Storage Appliance Features” on page 11](#)
- [“Oracle Technology Notices and Licenses” on page 11](#)
- [“Third Party Notices and/or Licenses” on page 12](#)

Separately Licensed Oracle ZFS Storage Appliance Features

The following features are included at no additional cost with Oracle ZFS Storage Appliance Racked System products. For Oracle ZFS Storage Appliance products that are not racked system products, these features require separate Integrated Software Option licenses:

- Replication
- Cloning
- Encryption

Refer to the Oracle Software License Agreement and Entitlement provided with each Oracle ZFS Storage Appliance product for more information about Integrated Software Options.

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- Oracle Integrated Lights Out Manager (ILOM)

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- [“Commercial Software, Storage Appliance”](#) on page 23
- [“Open Source Software or Other Separately Licensed Software, Storage Appliance”](#) on page 23

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Technology Name	Technology Version	Packages and Link to License Text
Babel	2.3.4	library/python/babel-27
Backbone.js	0.9.2	system/install/auto-install/auto-install-common
CherryPy	5.1.0	library/python/cherrypy-27
Cracklib	2.7	system/library
Csh		system/core-os
DTraceToolkit	0.99	system/dtrace/dtrace-toolkit
Django	1.11.1	library/python/django-27
FormEncode	1.3.0	library/python/formencode-27

Technology Name	Technology Version	Packages and Link to License Text
GMP		library/gmp
GRUB 2	2.00	system/boot/grub
HAL (Hardware Abstraction Layer)	0.5.4	system/hal
ICU	3.6	system/library/iconv
Imaging	1.1.7	library/python/python-imaging-27
Jinja2	2.8	library/python/jinja2-27
Kerberos	1.16.0	security/kerberos-5
LZMA SDK	4.62	system/library
M2Crypto	0.24.0	library/python/m2crypto-27
MPFR		library/mpfr
Mako	1.0.4	library/python/mako-27
MarkupSafe	0.23	library/python/markupsafe-27
MiniSAT	1.14.1	package/pkg
MySQL-python	1.2.5	library/python/python-mysql-27
NDMP SDK		service/storage/ndmp
Netscape Communications		system/kernel/crypto
Open Fabrics kernel components	1.5.3	system/io/infiniband/open-fabrics
PAPI	3.5	diagnostic/cpu-counters
Paste	2.0.3	library/python/paste-27
PasteDeploy	1.5.2	library/python/paste.deploy-27
PrettyTable	0.7.2	library/python/prettytable-27
PyYAML	3.11	library/python/pyyaml-27
Pygments	2.1.3	library/python/pygments-27
Python	2.7.14	library/python/tkinter-27
Python	3.4.8	library/python/tkinter-34
RSA	4	system/kernel/crypto
Reliable Datagram Sockets (RDSv3)	1.3	system/io/infiniband/reliable-datagram-sockets-v3
RequireJS	2.0.5	system/install/auto-install/auto-install-common
RequireJS i18n plugin	2.0.1	system/install/auto-install/auto-install-common
RequireJS text plugin	2.0.3	system/install/auto-install/auto-install-common
Routes	2.3.1	library/python/routes-27
SQLAlchemy	1.0.12	library/python/sqlalchemy-27
SQLite	2.8.15	system/core-os
Twisted	10.1.0	library/python/python-twisted-27
Underscore.js	1.3.3	system/install/auto-install/auto-install-common
Unicode	8.0	system/library/iconv

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V4L2 API definition header files	V4L2 in Linux 3.14	system/header
WebOb	1.5.1	library/python/webob-27
XML-Parser	2.44	library/perl-5/xml-parser-522
Xen PV Drivers	Xen 3.0.4-1	driver/xvm/pv
aac	2.2.3	driver/storage/aac
acpica	20140325	system/kernel
amqp	1.4.9	library/python/amqp-27
anyjson	0.3.3	library/python/anyjson-27
apache2	2.4.34	web/server/apache-24
apr	1.6.3	library/apr-16
apr-util	1.6.1	library/apr-util-16
arn	1.0	driver/network/wlan/arn
arp		system/network
asn1crypto	0.24.0	library/python/asn1crypto-27
atu	1.92	driver/network/wlan/atu
backup		system/core-os
bash	4.4.19.19	shell/bash
bge	1.91.2.32.2.1	driver/network/ethernet/bge
bib		text/doctools
bind	9.10.6-P1	network/dns/bind
binutils	2.30-1	developer/gnu-binutils
boto	2.40.0	library/python/boto-27
bpf	4.3BSD	system/network/bpf
bzip2	1.0.6	compress/bzip2
cdrtools	3.01	media/cdrtools
cfffi	1.11.4	library/python/cffi-27
checkeq		text/doctools
cmd2	0.6.8	library/python/cmd2-27
compress		system/core-os
contextlib2	0.5.1	library/python/contextlib2-27
coreutils	8.27	file/gnu-coreutils
coverage	4.0.3	library/python/coverage-27
cron		system/core-os
cryptography	2.1.4	library/python/cryptography-27
curl	7.61.0	web/curl
cyrus-sasl	2.1.26	legacy/system/library/security/libsasl-links

Technology Name	Technology Version	Packages and Link to License Text
dbus	1.10.22	system/library/dbus
dbus-glib	0.102	system/library/libdbus-glib
debtcollector	1.3.0	library/python/debtcollector-27
desktop-file-utils	0.23	desktop/xdg/desktop-file-utils
diffutils	3.6	text/gnu-diffutils
dnspython	1.12.0	library/python/dnspython-27
EEPROM		system/core-os
emlxs		driver/fc/emlxs
enum34	1.1.6	library/python/enum-27
eventlet	0.18.4	library/python/eventlet-27
fasteners	0.14.1	library/python/fasteners-27
filechunkio	1.6	library/python/filechunkio-27
fontconfig	2.12.1	system/library/fontconfig
freetype	2.9.1	system/library/freetype-2
ftp		network/ftp
ftp-proxy	5.5	network/firewall/firewall-ftp-proxy
fts	1.22	system/library
funcsigs	0.4	library/python/funcsigs-27
futures	3.0.5	library/python/futures-27
futurist	0.13.0	library/python/futurist-27
gSOAP	2.7.17	system/library/security/pkcs11_kms
gamin	0.1.10	library/file-monitor/gamin
gawk	4.1.4	text/gawk
gcc	5.5.0	developer/gcc/gcc-c++-5
gcc	7.3.0	developer/gcc/gcc-c++-7
gdbm	1.8.3	library/database/gdbm
getopt_long		system/library
gettext	0.19.8	text/gnu-gettext
gladman	04-03-08	system/kernel/crypto
glib	2.52.0	library/glib2
gmime	2.6.23	library/gmime
gnutls	3.5.16	library/gnutls-3
gpgme	1.6.0	library/security/gpgme
greenlet	0.4.9	library/python/greenlet-27
groff	1.22.3	text/groff
gsskex	5.7p1	network/ssh

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gsskrbkernel	1.8	system/kernel/security/gss
gzip	1.8	compress/gzip
httplib2	0.9.2	library/python/httplib2-27
hwa1480_fw	RC1.3PA2-2	system/io/usb
ibutils	1.5.7	network/open-fabrics
icu	3.6	system/kernel
idna	2.0	library/python/idna-27
ifconfig		system/network
ifparse		system/network
infiniband-diags	1.6.5	network/open-fabrics
iniparse	0.4	library/python/iniparse
intel		system/kernel/platform
ipaddress	1.0.16	library/python/ipaddress-27
ipfilter	4.1.9	network/ipf2pf
ipmi	8.0,8.1	driver/management/ipmi
ipmitool	1.8.15.0	system/management/ipmitool
ipython	0.10	library/python/ipython-27
isl	0.18	library/isl
iso8601	0.1.11	library/python/iso8601-27
iwh	1.0	driver/network/wlan/iwh
iwk	1.16	driver/network/wlan/iwk
iwp	1.0	driver/network/wlan/iwp
jQuery	1.8.0	system/install/auto-install/auto-install-common
jansson	2.10	library/jansson
jpeg	6.0.2	image/library/libjpeg
json-c	0.12	library/json-c
jsonrplib	0.2.6	library/python/jsonrplib-27
jsonschema	2.0.0	library/python/jsonschema-27
kcmbd		network/legacy-remote-utilities
keymaster.js	1.0.2	system/install/auto-install/auto-install-common
keystoneauth1	2.4.0	library/python/keystoneauth1-27
keystonemiddleware	4.4.0	library/python/keystonemiddleware-27
kombu	3.0.35	library/python/kombu-27
ksh93	93u+ 2012-08-01	developer/astdev93
lastcomm		system/core-os
less	530	text/less

Technology Name	Technology Version	Packages and Link to License Text
libX11	1.6.5	x11/library/libx11
libXScrnSaver	1.2.2	x11/library/libxscnsaver
libXau	1.0.8	x11/library/libxau
libXdmpc	1.1.2	x11/library/libxdmpc
libXevie	1.0.3	x11/library/libxevie
libXext	1.3.3	x11/library/libxext
libXft	2.3.2	x11/library/libxft
libXmu	1.1.2	x11/library/libxmu
libXrender	0.9.10	x11/library/libxrender
libassuan	2.4.3	library/security/libassuan
libbsdmalloc		system/library
libcrococo	0.6.12	library/libcrococo
libedit	20150325-3.1	library/libedit
libestr	0.1.10	library/libestr
libevent	2.0.22	library/libevent
libexpat	2.2.5	library/expat
libffi	3.2.1	library/libffi
libgcrypt	1.8.1	system/library/security/libgcrypt
libgpg-error	1.27	library/security/libgpg-error
libibmad	1.3.12	network/open-fabrics
libibumad	1.3.10.2	network/open-fabrics
libibverbs	1.1.4	network/open-fabrics
libidn	1.34	library/libidn
libidn2	2.0.4	library/libidn2
libinetutil		system/library
libipt	1.5.0	developer/debug/mdb
libkmf		system/library
liblogging	1.0.5	library/liblogging
libmicrohttpd	0.9.52	library/libmicrohttpd
libmlx4	1.0.1	network/open-fabrics
libmp		system/library
libpcap	1.8.1	system/library/libpcap
libpng	1.0.67	image/library/libpng10
libpng	1.2.57	image/library/libpng12
libpng	1.4.20	image/library/libpng14
libpthread-stubs	0.3	x11/library/libpthread-stubs

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librabbitmq	1.6.1	library/python/librabbitmq-27
librdmacm	1.0.14.1	network/open-fabrics
libresolv2		system/library
librstp	1.1.02	network/bridging
libsdp	1.1.108	network/open-fabrics
libsigsegv	2.10	library/libsigsegv
libssh2	1.7.0	library/libssh2
libtecla	1.6.1	library/libtecla
libtool	2.4.6	developer/build/libtool
libuuid	1.0	system/library
libxcb	1.12	x11/library/libxcb
libxml2	2.9.5	library/libxml2
libxslt	1.1.28	library/libxslt
look		text/spelling-utilities
lxml	3.6.4	library/python/lxml-27
lz4		system/file-system/zfs
mdb		system/kernel
mdns	1.0	service/network/dns/mdns
mega_sas		driver/storage/mega_sas
memcached	1.4.35	service/memcached
mock	1.3.0	library/python/mock-27
mod_gss	1.3.8	service/network/ftp
mod_wsgi	4.5.1	web/server/apache-24/module/apache-wsgi-27
monotonic	0.6	library/python/monotonic-27
mpathd		system/network
mpc	0.9	library/mpc
mpc	1.0.3	library/mpc
mr_sas		driver/storage/mr_sas
msgpack-python	0.4.7	library/python/msgpack-27
mt		system/core-os
ncurses	6.0.0.20170708	library/ncurses
net-snmp	5.7.3	library/python/net-snmp-27
net80211	1.43	system/kernel
netaddr	0.7.18	library/python/netaddr-27
netcat	1.89	network/netcat
netifaces	0.10.4	library/python/netifaces-27

Technology Name	Technology Version	Packages and Link to License Text
netlink		system/kernel
netlink	67a7848	system/header
nettle	3.2	library/security/nettle
nghttp2	1.27.0	library/nghttp2
nose	1.3.7	library/python/nose
nspr	4.19	library/nspr
nss	3.36.1	library/security/nss
ntp	4.2.8p11	service/network/ntp
oauthlib	1.0.3	library/python/oauthlib-27
openldap	2.4.45	service/network/ldap/openldap
opensm	3.3.19	network/open-fabrics
openssh	7.5p1	network/ssh
openssl	1.0.0	system/kernel/crypto
openssl	1.0.2o	library/security/openssl
openssl-fips-140	1.0.2o	library/security/openssl/openssl-fips-140
oslo.concurrency	3.7.1	library/python/oslo.concurrency-27
oslo.config	3.9.0	library/python/oslo.config-27
oslo.context	2.2.0	library/python/oslo.context-27
oslo.i18n	3.5.0	library/python/oslo.i18n-27
oslo.log	3.3.0	library/python/oslo.log-27
oslo.messaging	4.6.1	library/python/oslo.messaging-27
oslo.middleware	3.8.0	library/python/oslo.middleware-27
oslo.serialization	2.4.0	library/python/oslo.serialization-27
oslo.service	1.8.0	library/python/oslo.service-27
oslo.utils	3.8.0	library/python/oslo.utils-27
osprofiler	1.2.0	library/python/osprofiler-27
ovs		system/kernel
ovs	2.6.1	system/header
p7zip	16.02-3	compress/p7zip
paramiko	2.0.8	library/python/paramiko-27
patricia		system/kernel
pbr	1.8.1	library/python/pbr-27
pcfs		system/file-system/pcfs
pci.ids	2018.06.18	system/data/hardware-registry
pcre	8.41	library/pcre
perftest	1.3.0	network/open-fabrics

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perl	5.22.1.1	runtime/perl-522
pf	5.5	network/firewall
pflogd	5.5	network/firewall/firewall-pflog
pigz	2.3.4	compress/pigz
pika	0.10.0	library/python/pika-27
pika-pool	0.1.3	library/python/pika-pool-27
pip	8.1.1	library/python/pip-27
pkcs11	2.40	system/header
ply	3.8	library/python/ply-27
policykit		system/library/policykit
popt	1.16	library/popt
portfp		system/library
portgen		system/library
positional	1.0.1	library/python/positional-27
proftpd	1.3.6	service/network/ftp
py	1.4.31	library/python/py-27
pyOpenSSL	16.2.0	library/python/pyopenssl-27
pyasn1	0.4.2	library/python/pyasn1-27
pyasn1-modules	0.2.1	library/python/pyasn1-modules-27
pybonjour	1.1.1	library/python/pybonjour-27
pycadf	2.2.0	library/python/pycadf
pycparser	2.14	library/python/pycparser-27
pycurl	7.43.0	library/python/pycurl
pyarsing	2.1.4	library/python/pyarsing-27
pyrabbit	1.1.0	library/python/pyrabbit-27
pytest	2.9.1	library/python/pytest-27
python-ceilometerclient	2.4.0	library/python/ceilometerclient-27
python-dateutil	2.5.3	library/python/dateutil-27
python-keystoneclient	2.3.1	library/python/keystoneclient-27
python-ldap	2.4.25	library/python/python-ldap-27
python-memcached	1.57	library/python/python-memcached-27
python-swiftclient	3.0.0	library/python/swiftclient
pytz	2016.4	library/python/pytz-27
qlc		driver/fc/qlc
qperf	0.4.9	network/open-fabrics
quagga	0.99.19	system/network/routing/quagga

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raccoon2	1.38	system/network/ike
rcp		network/legacy-remote-utilities
rds-tools	2.0.4	network/open-fabrics
readline	5.2	library/readline
readline	6.3	library/readline
repoze.lru	0.6	library/python/repoze.lru-27
requests	2.9.1	library/python/requests-27
retrying	1.3.3	library/python/retrying-27
route		system/network
routed.bsd		system/network/routing
rsh		network/legacy-remote-utilities
rsync	3.1.2	network/rsync
rsyslog	8.15.0	system/rsyslog
rts		system/kernel
rum	1.13.2.1	driver/network/wlan/rum
script		system/core-os
sendmail	8.14.9	mail/mail.local
sendmail	8.15.2	library/libmilter
setuptools	19.2	library/python/setuptools-27
sg3_utils	1.42	system/storage/sg3_utils
shared-mime-info	1.8	data/shared-mime-info
shim	0.9	boot/shim
simplejson	3.6.5	library/python/simplejson-27
six	1.10.0	library/python/six-27
smbfs	1.4.5	system/file-system/smb
smp_utils	0.98	system/storage/smp_utils
snappy	1.1.3	library/snappy
snia-hbaapi	2.0	system/library/storage/snia-hbaapi
snia-ima	1.0	system/library/storage/snia-ima
snia-mpapi	1.1	system/library/storage/snia-mpapi
sqlite	3.24.0	database/sqlite-3
sqlparse	0.1.19	library/python/sqlparse-27
sscanf		system/kernel
stevedore	1.12.0	library/python/stevedore-27
swift	Mitaka 2.7.0	cloud/openstack/swift
t11-sm-hba	1.0	system/library/storage/t11-sm-hba

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tarfile	2.4	package/pkg
tcl	8.6.7	runtime/tcl-8
tcp-wrapper	7.6	security/tcp-wrapper
tcpdump	4.9.2	diagnostic/tcpdump
tcsch	6.20.0	shell/tcsch
telnet		network/telnet
terminfo		system/data/terminfo
termio		system/kernel
timers		system/kernel
tip		system/core-os
tk	8.6.7	runtime/tk-8
traceroute	1.3.2	system/network
trousers	0.3.13	library/security/trousers
uath	1.3	driver/network/wlan/uath
ufs		system/file-system/ufs
ul		text/doctools
unicode	5.0	system/kernel
units		system/core-os
ural	1.70	driver/network/wlan/ural
urtw	1.23	driver/network/wlan/urtw
usb.ids	2018.05.04	system/data/hardware-registry
vgaarb	1.0.0	driver/x11/xsvc
vgrind		text/doctools
vi		developer/base-developer-utilities
vim	8.0.711	editor/gvim
vmstat		system/core-os
wget	1.19.5	web/wget
which		system/core-os
which	2.21	shell/which
wireshark	2.6.3	diagnostic/wireshark
wrapt	1.10.6	library/python/wrapt-27
xattr	0.9.3	library/python/xattr-27
xauth	1.0.10	x11/session/xauth
xorriso	1.4.8	media/xorriso
xproto	7.7	x11/header/x11-protocols
xstr		system/core-os

Technology Name	Technology Version	Packages and Link to License Text
xz	5.2.3	compress/xz
zlib	1.2.11	library/zlib
zope.interface	4.3.2	library/python/python-zope-interface-27
zsh	5.3.1	shell/zsh
zyd	0.1.3.1	driver/network/wlan/zyd

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