

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



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Introduction

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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](#)
- [Oracle Technology Notices and Licenses](#)
- [Third Party Notices and/or Licenses](#)

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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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- [Commercial Software, Storage Appliance](#)
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Licenses in the following table are listed alphabetically A-Z, then a-z.

| 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 |
| 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 |

| Technology Name | Technology Version | Packages and Link to License Text |
|-----------------------------------|--------------------|-------------------------------------------------------------------|
| 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 |
| 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 |

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|--------------------|--------------------|--------------------------------------------------------------|
| bzip2 | 1.0.6 | compress/bzip2 |
| cdrtools | 3.01 | media/cdrtools |
| cff | 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 |
| 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 |

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| 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 |
| 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 |
| jsonrpclib | 0.2.6 | library/python/jsonrpc-lib-27 |

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| jsonschema | 2.0.0 | library/python/jsonschema-27 |
| kcmd | | 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 |
| libX11 | 1.6.5 | x11/library/libx11 |
| libXScrnSaver | 1.2.2 | x11/library/libxscrsaver |
| 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 |
| libcroco | 0.6.12 | library/libcroco |
| 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 |

| Technology Name | Technology Version | Packages and Link to License Text |
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| 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 |
| 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 |

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| 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 |
| 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 |

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|-------------------------|--------------------|----------------------------------------------------|
| pci.ids | 2018.06.18 | system/data/hardware-registry |
| pcre | 8.41 | library/pcre |
| perftest | 1.3.0 | network/open-fabrics |
| 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 |
| yparsing | 2.1.4 | library/python/yparsing-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 |

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|------------------|--------------------|----------------------------------------------------|
| quagga | 0.99.19 | system/network/routing/quagga |
| racoona2 | 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 |
| tarfile | 2.4 | package/pkg |

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|-----------------|--------------------|---------------------------------------------------------|
| tcl | 8.6.7 | runtime/tcl-8 |
| tcp-wrapper | 7.6 | security/tcp-wrapper |
| tcpdump | 4.9.2 | diagnostic/tcpdump |
| tcsh | 6.20.0 | shell/tcsh |
| 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 |
| xz | 5.2.3 | compress/xz |
| zlib | 1.2.11 | library/zlib |
| zope.interface | 4.3.2 | library/python/python-zope-interface-27 |

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| zsh | 5.3.1 | shell/zsh |
| zyd | 0.1.3.1 | driver/network/wlan/zyd |

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|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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