

Rosetta Stone for Unix

encrypted passwords in	/etc/security/passwd	NetInfo	/etc/shadow	/etc/master.passwd	/etc/passwd (not Trusted) /secure/etc/passwd (Trusted 9) /ch/files/auth/ (10+) /etc/shadow (11.22+)	/etc/shadow	/etc/shadow (may vary)	/etc/shadow	/etc/master.passwd (etc/spwd.db)	/etc/master.passwd (etc/pwd.db)	/etc/shadow	/etc/shadow	/etc/passwd	/ch/files/auth (only with Enhanced Security)	/etc/shadow	/etc/udb	encrypted passwords in			
allow/deny root logins	/etc/security/user	/etc/ttys (doesn't affect ssh)	/etc/default/login	/etc/login.access; /etc/tty	/etc/security	/etc/default/login	/etc/security	/etc/default/login	/etc/ttys	/etc/ttys	/etc/default/login	/dev/default/login	/etc/default/login	/dev/ttytab	/etc/securetty	/etc/security	adrestrict -R	allow/deny root logins		
firewall config	?	Aqua / System Prefs / Sharing / Firewall	?	ipfw ipf pf	/etc/opt/ipf/ipf.conf	/etc/ipf.conf	iptables ipchains ipfwadm (rh) redhat-config-security-level	?	pfctl (3.0+) etc/pf.conf (3.0+)	pfctl etc/pf.conf	?	(9+) /usr/ass/	?	?	?	?	?	firewall config		
TASK \ OS	AIX	Darwin	DG/UX	FreeBSD	HP-UX	IRIX	Linux	NCR Unix	NetBSD	OpenBSD	Reliant	SCO UnixWare	Solaris	SunOS 4	Tru64	Ultrix	UNICOS	OS / TASK		
show installed software	lspp -L	ls /Applications Apple System Profiler system_profiler ls /Network/Applications /Network/Users/*/ Applications /Users*/Applications	pkginfo	pkg_info ls /var/db/pkg	pkg_info ls /var/db/pkg	rpm, what (HP-UX 9) swlist (HP-UX 10+)	versions showfiles showprods	(rh) rpm -a -i (rh) rpm -qa (rh) yum list installed (deb) dselect (deb) aptitude (deb) dpkg -l	?	displaypkg pkginfo	pkg_info	pkg_info	pkginfo -l sysadm	svconfig displaypkg pkginfo	?	setid -i	?	?	show installed software	
add software	smitty install_all smitty installp /usr/lib/install_sm_inst install_cmd -a -d device -e -N -g -X	installpkg yum install drag-and-drop	sysadm	/stand/syinstall /usr/ports make pkg_add portinstall (from /usr/ports)	swinstall	inst swmgr	(rh) rpm -hiv (rh) yum list installed (deb) dselect (deb) apt-get install pkg (deb) dpkg -i	pkgsadd pkgsplus	pkg_add usr/ports && make	pkgsadd sysadm	custom installpkg SCOadmin (GUI)	pkgsadd	?	setid -l	?	?	?	add software		
precompiled binaries of GPLware and freeware	www-1.ibm.com/services/ix/products/aixes/linux/download.html aixpkib.sea.ucla.edu/aixpkib.html kullfireware.com	link.sourceforge.net darwinports.openbsd.org	?	ftp.freebsd.org/pub/FreeBSD/www.freebsd.org	hpux.cs.utah.edu hpux.connect.org.uk	freeware.sgi.com www.sgi.com/lin	?	www.linux.org linux.tucows.com sourceforge.net (deb) ftp.debian.org (deb) packages.debian.org	?	ftp://ftp.netbsd.org/pub/NetBSD/packages	?	ftp://ftp.openbsd.org/pub/OpenBSD/versions/packages	?	www.caldora.com www.skunkware.com	www.sunfireware.com www.bliswave.org	?	www.tru64unix.compan.com/demos tracerve.r3k.dec.com/fireware/BL_packages.html	?	?	precompiled binaries of GPLware and freeware
C compiler	/usr/libgcc/bin/cc	/usr/bin/cc (gcc)	/usr/sde/default/usr/bin/cc	/usr/bin/cc (gcc)	/opt/softbench/bin/cc (S) /bin/cc (9) use bin/cc (10+; not ANSI, kernel builder only)	/opt/MIPSpro/bin/cc (S) /usr/bin/cc	gcc	gcc	/usr/bin/cc (Optware)	/usr/bin/cc	/usr/bin/cc	/usr/bin/cc	/opt/SUNWpro/bin/cc (S)	/usr/bin/cc	/usr/bin/cc	/usr/bin/cc	/usr/bin/cc	/opt/ct/bin/cc	C compiler	
show patch level and/or patches	instfix -ivq oslevel -r	sw_vers Apple>About This Mac ls /Library/Receipts uname -a lsbom cat /System/Library/CoreServices/SystemVersion.plist	what /dgux	uname -a	swlist -l product grep PHOemString uname -R (6.5+)	versions -b grep patch (6.4+) uname -R (6.5+)	(rh) rpm -q (deb) dpkg -s	pkginfo -l	cat /kern/version uname -a etc/release	sysctl -a kern.version	uname -a pkginfo grep EKS	swconfig -P	showrev -p prolog (2.6+) patchadd -p	showrev -p (if you're lucky)	patch-track-type bit patch-track-type patch setid -l grep patchname stzer -vB	?	?	?	show patch level and/or patches	
patch tool	installp smitty update_all	System Preferences / Software Update softwareupdate	dg_sysreport -p patches	(cvsup or cvs to update, then rebuild)	update (9) swinstall (10+)	inst swmgr	apt-get update apt-get upgrade (rh) rpm update (rh) yum update (man) urpmi	pkgsadd pkgsplus	cvs patch	cvs-CTM	pkgsadd sysadm	?	installpatch (2.5.1-) patchadd (2.6+) pkgsadd usr/sadm/bin/patch (9+)	n/a	setid -i dupatch	?	?	patch tool		
configure/show runtime linking	errata-2008.com/AnnualRecipies/Sharedlib.html	otool -L	?	ldd ldconfig kldstat	chrtr ldd (11+) kldstat	ldd rld RLD_LIST	ldconfig ldd ldd	ldd ldconfig	ldd nm ldconfig	ldd	ldd	ldd	crle ldd gldd modinfo LD_PRELOAD	ldd	odump -DI ldd	?	?	configure/show runtime linking errata-2008.com/AnnualRecipies/Sharedlib.html		
link library path	SLIBPATH	SO_LD_LIBRARY_PATH man dyld	SLIBPATH	SLD_LIBRARY_PATH	SLD_LIBRARY_PATH SSHLIB_PATH (32- or 64-bit)	SLD_LIBRARY_PATH SRLD*_PATH	SLD_LIBRARY_PATH etc/ld.so.conf	SLD_LIBRARY_PATH	SLD_LIBRARY_PATH etc/ld.so.conf	?	SLD_LIBRARY_PATH	SLD_LIBRARY_PATH	SLD_LIBRARY_PATH	SLD_LIBRARY_PATH	SLD_LIBRARY_PATH	SLD_LIBRARY_PATH	SLD_LIBRARY_PATH	SLDPATH	link library path	
tracing utility	trace syscalls strace watch	ktrace; kdump fs_usage	?-dg_strace (>=4.20M06)	ktrace truss	trace (freeware) truss (11+, freeware)	par prstat	strace kruss kdump	truss	ktrace kruss kdump	truss scstat	truss scstat	?	truss struss drace (10+)	trace	trace truss	?	cdhx jumptrace	tracing utility		
define user defaults	/etc/security/mkuser.default /etc/environment	/usr/bin/defaults	admsuser -o set	/etc/login.conf	/etc/default /etc/PATH /etc/MANPATH /etc/default*	/etc/default/login /etc/profile	/etc/profile /etc/security/ /etc/skel*	/etc/default/login /etc/profile /etc/security/ /etc/login.conf	/etc/profile /etc/skel* /etc/login.conf	/etc/profile /etc/skel* /etc/login.conf	/etc/default/login /etc/profile \$HOME/profile	/etc/default/login /etc/profile /etc/security/	/etc/profile	/etc/skel /etc/profile	/etc/skel /etc/profile	adghon nu scripts	?	define user defaults		
csh global login	?	/etc/csh.login	?	/etc/csh.login	/etc/csh.login	/etc/cshrc	/etc/csh.login	/etc/login	/etc/csh.login	/etc/csh.login	?	/etc/login	?	/etc/csh.login	?	/etc/login	?	csh global login		
default syslog and messages	/var/adm/syslog /var/adm/messages	/var/log/system.log	/var/adm/messages	/var/log/messages	/var/adm/syslog/syslog.log /var/adm/sulog /var/spool/inqproc/syslog	/var/adm/SYSLOG /var/adm/sulog	/var/log/syslog /var/adm/messages /var/adm/maillog	/var/adm/streams /var/adm/ucerr etc/zsm	/var/log/messages	/var/log/messages	/var/adm/log/messages	/usr/adm/syslog /var/adm/osmlog	/var/adm/messages /var/log/syslog	/var/log/syslog (sendmail)	(4.x+) /var/adm/messages /var/adm/syslog.dated (kern, auth, daemon, lpr, syslog, user) /var/adm/binary.errlog	/var/adm/messages /var/adm/syslog.dated (kern, auth, daemon, lpr, syslog, user) /var/adm/binary.errlog	?	?	default syslog and messages	
system error reporting tool	errpt	Console /var/log/crash.log, dmesg	admsyslog -o report	dmesg send-pr	dmesg sysadm (9 and early10) stm/cstm/instm/xstm (10.20+) EMS (from support CD)	sysmon eventmon avtmon evtsmon imdmirror syserrpanel	dmesg (deb) reporting	odm errpt	dmesg cat /kern/msgbuf	dmesg	sysadm log3 WebSysAdmin	dmesg	dmesg	(4.x) uerf, dia (DECvent) (5.x) (System errors) EVM (evmget; evmshow) (Hardware errors) dia; ca (Compaq analyze)	uerf	errpt	?	system error reporting tool		
performance monitoring	ftp://ftp.software.ibm.com/aix/tools/perf/tools/perfmap vmstat; iostat; sar; filemon; top; trace; svmon; netpmn	vm_stat; nfstat; fs_usage; sc_usage; top	?	fsat; nfstat; systat; vmstat; nstat; ustat; top; iostat	top; sar; vmstat; iostat; nfstat; nstat; ustat; Glance(5)	pcp; dkstat; pmkstat; sar; osview; gr_osview; ccstat; linkstat; nstat; nfstat; nfsvic; nodevic; rdtwvsv; nstat; top	vmstat procinfo -D	sar; pinfo -vc; modstat; nstat; ccstat; pppstat; vmstat; smppstat; ustat; top	iostat; nstat; systat; vmstat	iostat; nstat; systat; vmstat	sar; iostat; kstat; mpstat; nstat; prstat; trapstat; vmstat; pree	?	iostat; nstat; vmstat /usr/opt/sv4b/bin/sar	iostat; nfstat; vmstat /usr/opt/sv4b/bin/sar	iostat; nfstat; vmstat /usr/opt/sv4b/bin/sar	?	?	performance monitoring		
match process to file or port	procfiles (5.2+, files only)	sof	?	lsnf sockstat	?	fuser	lsnf netstat -atup	fuser	fsat	?	fuser	?	fuser lsnf pfiles	?	?	?	?	match process to file or port		
TASK \ OS	AIX	Darwin	DG/UX	FreeBSD	HP-UX	IRIX	Linux	NCR Unix	NetBSD	OpenBSD	Reliant	SCO UnixWare	Solaris	SunOS 4	Tru64	Ultrix	UNICOS	OS / TASK		
FAQs (see also faq.org)	www.faq.org/faq/ aix.faq.net/faq/releasable.html	www.darwininfo.org/faq.shtml www.macosshints.com	www-csc.dg.com/csc/dmnsfaq1.asp	www.freebsd.org/doc/en_US.ISO8859-1/books/faq	www.faq.org/faq/ hp.faq.net/faq/releasable.html	techpubs.sgi.com/library/tpl/cgi-bin/browse.cgi?coll=0650&lib=FAQ	www.linuxdoc.org/FAQ/Linux-FAQ	?	www.netbsd.org/Documentation	www.openbsd.org/faq	www.faq.org/faq/Solaris2/FAQ/ www.faq.org/faq/Solaris2/556FAQ/ www.steeky.com/unix/sysadm/resources/faq_sun.html	www.faq.org/faq/	www-csc.dg.com/csc/dmnsfaq1.asp	www.faq.org/faq/	www2.tru64.com/faq/tru64_faq.php	www.sunplex.fr/decusa/faq/faq-aixtrix.html	www.spkcnorman.net	?	FAQs (see also faq.org)	
mailing list	AIX-L@pucc.brown.edu (LISTSERV)	lists.apple.com	?	www.freebsd.org/handbook/resources.html#RESOURCES-MAIL	hpux-admin@hutchworks.nl	?	www.linuxmanagers.org www.linux.org/help/lists.html	?	www.netbsd.org/MailingLists	www.openbsd.org/mail.html	?	sun-managers@summanagers.org (major-domo)	sun-managers@summanagers.org (major-domo)	sun-managers@summanagers.org (major-domo)	tru64-unix-managers@ornl.gov (major-domo)	www.decstation-managers@ornl.gov (major-domo)	?	mailing list		
mailing list archives	www.marist.edu/libia/whindex?ADSM-L www.thetaingroup.com/?l=aix&rc=1&w=2	lists.apple.com	?	www.freebsd.org/search.html#mailinglists	www.dutchworks.nl/ hpux@hutchworks.nl	?	www.linuxmanagers.org www.linux.org/help/lists.html	?	www.netbsd.org/MailingLists	www.openbsd.org/mail.html	?	www.summanagers.org/archives.html www.litech.edu/sunman.html	www.litech.edu/sunman.html	www.archive.ornl.gov:8000	www.archive.ornl.gov:8000	?	?	mailing list archives		

Rosetta Stone for Unix

newsgroup(s) groups.google	comp.unix.aix www.thp.uni-duisburg.de/suix/cmix.html	comp.sys.mac.*	?	comp.unix.bsd.freebsd.misc	comp.sys.hp.hpux	comp.sys.sgi.admin	comp.os.linux.* (esp answers)	comp.sys.ncr	comp.unix.bsd.netbsd.misc	comp.unix.bsd.openbsd.misc lucky.openbsd.misc	de.comp.os.unix.suix	comp.unix.sco.misc	comp.sys.sun.admin-comp.unix.solaris	comp.sys.sun.admin	comp.sys.dec-comp.unix.tru64	comp.unix.ultrix	comp.unix.cray	newsgroup(s) groups.google
user groups	www.aseerbae.org	www.apple.com/iosxnotes www.ominicomp.com/developer/maillists www.themacintoshpage.com/lists/X.html	?	www.freebsd.org/support.html#user	www.intereq.org	?	www.debianhelp.org	?	www.netbsd.org/gallery/groups.html	deadly.org	?	?	?	?	Ecompass.DECUS	?	www.cru.org www.excray.com	user groups
magazines	www.developer.ibm.com/library/aixpert	www.macworld.com www.stepwise.com	?	www.daemonews.com	www.hpcronicle.com www.intereq.org/hpuxuser www.hpupro.com	www.sgi.com/support/pipeline.html	www.linuxjournal.com www.linux-mag.com www.debianplanet.org	?	www.daemonews.com	undeadly.org	?	?	www.sunworld.com sun.com/sun-on-net/itworld	?	www.tru64.org	?	?	magazines
vendor home page	www.developer.ibm.com/tech/map/aixrm.html	www.apple.com	www.csc.de.com/csc/default.asp	www.freebsd.org	unix.hp.com	www.sgi.com/software/software.html#IRIX	www.linux.org www.redhat.com www.debian.org	ncc.com teradata.com	www.netbsd.org	www.openbsd.org	www.fujitsu-siemens.com	www.caldera.com/products/onenix	sun.com/solaris sun.com/brandmin sun.com/developers/support/solk_sun.com access1.sun.com	?	www.tru64unix.com/saj.com	www.supelec.fr/decus/faq/faq-ultrix.html	www.cray.com	vendor home page
vendor docs and patches	www.redbooks.ibm.com techsupport.services.ibm.com/server/support?view=pSeries	developer.apple.com/darwin www.info.apple.com/support/downloads.html www.apple.com/support/security/security.html	www.csc.de.com/csc/custdocs/csc/custdocs2.asp?category=069dscs.asp	www.freebsd.org/handbook www.freebsd.org/releases/4.0R/errata.html	docs.hp.com ncc.hp.com	techpubs.sgi.com www.sgi.com/support/patch_intro.html support.sgi.com releases.grelnotes	www.linuxdoc.org ramfind.net/linux/RPM	www.info.ncc.com eCRM-CRM-Training-Bj-Results.cfm ?l=&PID=&title=&release=&p=Software%20%20MP-RAS&btn=3	www.netbsd.org/Security	www.openbsd.org/docum.html www.openbsd.org/errata.html	service.fujitsu-siemens.com its.siemens.com/lobs/its_scs/cks_en_unix_en.htm	www.caldera.com/support	docs.sun.com sunolve.sun.com	?	www.tru64unix.com/saj.com/docs	N/A (EOL)	www.cray.com/craydoc	vendor docs and patches
vendor phone (US)	AIX: 800-237-5511 IBM hardware: 800-426-7378	1-800-MY-APPLE	?	925-674-0783 (FreeBSD Mail)	800-633-3600	800-800-4SGI	?	?	?	?	(Germany) +49-5251-80	?	800-USA-4SUN	?	800-344-4825	800-344-4825	?	vendor phone (US)
TASK / OS	AIX	Darwin	DG/UX	FreeBSD	HP-UX	IRIX	Linux	NCR Unix	NetBSD	OpenBSD	Reliant	SCO UnixWare	Solaris	SunOS 4	Tru64 (Digital Unix, OS/1) (4.4BSD (S) 5.0A	Ultrix	UNICOS	OS \ TASK

Footnotes

- In System V-based Unices, *run level* relates to booting, shutdown, and single-user mode. In BSD, it has to do with security.
- Freeware; not part of the OS. See the [precompiled binaries task](#) or web search.

Universal Command Guide is a large book which covers several of the OSs in this table. See <http://www.allcommands.com>

UnixGuide.net has a similar table covering fewer Unix versions and a somewhat different set of tasks. See <http://unixguide.net/cgi-bin/unixguide.cgi>

coolcommands.com is a search engine giving one-line command examples: http://www.coolcommands.com/index.php?option=com_content&Itemid=28

Solaris / HP-UX / FreeBSD / Linux / AIX: <http://www.unixporting.com/quickguide.html>

Solaris / HP-UX: <http://soldsun.com/migration/hpux/migrissues/>. If that page no longer exists, get an archived version from the Internet Archive Wayback Machine at <http://www.archive.org/web/web.php>

AIX 4.3.3 / Solaris 8: <http://www.redbooks.ibm.com/redpapers/pdfs/red0104.pdf>

Unix history time line: <http://www.levenez.com/unix/>

Heiner Steven's AWK dialects page: <http://www.shellorado.com/articles/awkcompat.html>

Ben Zorn's Debugging Tools for Dynamic Storage Allocation and Memory Management: http://www.cs.colorado.edu/homes/zom/public_html/MallosDebug.html

USENIX: <http://www.usenix.org/>

USENIX System Administrator's Guild: <http://saag.org/>

League of Professional System Administrators: <http://lpsa.org/>

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