

```
ds-ga-1007$ cd
ds-ga-1007$ pwd
/home/ds-ga-1007
ds-ga-1007$ ls -al
total 140
drwxr-xr-x 18 ds-ga-1007 ds-ga-1007 4096 Sep 10 23:55 .
drwxr-xr-x  3 root      root      4096 Aug 29 10:09 ..
-rw-----  1 ds-ga-1007 ds-ga-1007 1191 Sep 11 09:07 .bash_history
-rw-r--r--  1 ds-ga-1007 ds-ga-1007  220 Aug 29 10:09 .bash_logout
-rw-r--r--  1 ds-ga-1007 ds-ga-1007 3680 Sep  3 17:43 .bashrc
drwx----- 20 ds-ga-1007 ds-ga-1007 4096 Aug 29 14:29 .cache
drwx-----  3 ds-ga-1007 ds-ga-1007 4096 Aug 29 10:17 .compiz
drwx----- 17 ds-ga-1007 ds-ga-1007 4096 Sep  3 17:50 .config
drwxr-xr-x  4 ds-ga-1007 ds-ga-1007 4096 Sep  3 19:56 Desktop
drwxr-xr-x  2 ds-ga-1007 ds-ga-1007 4096 Aug 29 10:11 Documents
drwxr-xr-x  2 ds-ga-1007 ds-ga-1007 4096 Aug 29 14:28 Downloads
drwxrwxr-x  3 ds-ga-1007 ds-ga-1007 4096 Aug 29 11:43 .eclipse
-rw-r--r--  1 ds-ga-1007 ds-ga-1007 8980 Aug 29 10:09 examples.desktop
drwx-----  3 ds-ga-1007 ds-ga-1007 4096 Sep 10 23:55 .gconf
-rw-rw-r--  1 ds-ga-1007 ds-ga-1007  86 Sep  3 17:21 hello_world.py
-rw-----  1 ds-ga-1007 ds-ga-1007 4440 Sep 10 23:55 .ICEauthority
drwxr-xr-x  3 ds-ga-1007 ds-ga-1007 4096 Aug 29 10:11 .local
drwx-----  4 ds-ga-1007 ds-ga-1007 4096 Aug 29 10:24 .mozilla
drwxr-xr-x  2 ds-ga-1007 ds-ga-1007 4096 Aug 29 10:11 Music
drwxr-xr-x  2 ds-ga-1007 ds-ga-1007 4096 Aug 29 10:11 Pictures
-rw-r--r--  1 ds-ga-1007 ds-ga-1007  675 Aug 29 10:09 .profile
drwxr-xr-x  2 ds-ga-1007 ds-ga-1007 4096 Aug 29 10:11 Public
drwxrwxr-x  3 ds-ga-1007 ds-ga-1007 4096 Aug 29 11:43 .swt
drwxr-xr-x  2 ds-ga-1007 ds-ga-1007 4096 Aug 29 10:11 Templates
-rw-r----- 1 ds-ga-1007 ds-ga-1007   5 Sep 10 23:55 .vboxclient-clipboard.pid
-rw-r----- 1 ds-ga-1007 ds-ga-1007   5 Sep 10 23:55 .vboxclient-display.pid
-rw-r----- 1 ds-ga-1007 ds-ga-1007   5 Sep 10 23:55 .vboxclient-draganddrop.pid
-rw-r----- 1 ds-ga-1007 ds-ga-1007   5 Sep 10 23:55 .vboxclient-seamless.pid
drwxr-xr-x  2 ds-ga-1007 ds-ga-1007 4096 Aug 29 10:11 Videos
-rw-----  1 ds-ga-1007 ds-ga-1007  64 Sep 10 23:55 .Xauthority
-rw-----  1 ds-ga-1007 ds-ga-1007 955 Sep 10 23:55 .xsession-errors
-rw-----  1 ds-ga-1007 ds-ga-1007 955 Sep 10 16:37 .xsession-errors.old
ds-ga-1007$ cd .
ds-ga-1007$ pwd
/home/ds-ga-1007
ds-ga-1007$ cd ..
ds-ga-1007$ pwd
/home
ds-ga-1007$ ls -al
total 12
drwxr-xr-x  3 root      root      4096 Aug 29 10:09 .
drwxr-xr-x 23 root      root      4096 Aug 29 15:03 ..
drwxr-xr-x 18 ds-ga-1007 ds-ga-1007 4096 Sep 10 23:55 ds-ga-1007
ds-ga-1007$ cd ..
```

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ds-ga-1007$ pwd
/
ds-ga-1007$ ls -al
total 104
drwxr-xr-x 23 root root 4096 Aug 29 15:03 .
drwxr-xr-x 23 root root 4096 Aug 29 15:03 ..
drwxr-xr-x 2 root root 4096 Aug 29 15:03 bin
drwxr-xr-x 3 root root 4096 Sep 3 17:01 boot
drwxr-xr-x 2 root root 4096 Aug 29 10:08 cdrom
drwxr-xr-x 15 root root 4100 Sep 10 23:55 dev
drwxr-xr-x 133 root root 12288 Sep 10 23:55 etc
drwxr-xr-x 3 root root 4096 Aug 29 10:09 home
lrwxrwxrwx 1 root root 33 Aug 29 15:03 initrd.img -> boot/initrd.img-3.13.0-35-generic
lrwxrwxrwx 1 root root 33 Aug 29 10:10 initrd.img.old -> boot/initrd.img-3.13.0-32-generic
drwxr-xr-x 23 root root 4096 Aug 29 10:10 lib
drwxr-xr-x 2 root root 4096 Aug 29 15:02 lib64
drwx----- 2 root root 16384 Aug 29 10:07 lost+found
drwxr-xr-x 3 root root 4096 Aug 29 10:16 media
drwxr-xr-x 2 root root 4096 Apr 10 18:12 mnt
drwxr-xr-x 3 root root 4096 Aug 29 10:16 opt
dr-xr-xr-x 166 root root 0 Sep 10 23:54 proc
drwx----- 2 root root 4096 Aug 29 10:10 root
drwxr-xr-x 22 root root 740 Sep 10 23:55 run
drwxr-xr-x 2 root root 12288 Aug 29 15:13 sbin
drwxr-xr-x 2 root root 4096 Jul 22 17:57 srv
dr-xr-xr-x 13 root root 0 Sep 10 23:54 sys
drwxrwxrwt 5 root root 4096 Sep 11 08:17 tmp
drwxr-xr-x 10 root root 4096 Jul 22 17:57 usr
drwxr-xr-x 13 root root 4096 Jul 22 18:28 var
lrwxrwxrwx 1 root root 30 Aug 29 15:03 vmlinuz -> boot/vmlinuz-3.13.0-35-generic
lrwxrwxrwx 1 root root 30 Aug 29 10:10 vmlinuz.old -> boot/vmlinuz-3.13.0-32-generic
ds-ga-1007$ cd ..
ds-ga-1007$ pwd
/
ds-ga-1007$ cd /etc
ds-ga-1007$ cat hosts
127.0.0.1 localhost
127.0.1.1 dsga1007-VirtualBox

# The following lines are desirable for IPv6 capable hosts
::1 ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
ds-ga-1007$ cd -
/
ds-ga-1007$ pwd
/

```

ds-ga-1007\$

continue

ds-ga-1007\$ ls /bin

bash	fgconsole	nc	sed
bunzip2	fgrep	nc.openbsd	setfacl
busybox	findmnt	netcat	setfont
bzcat	fuser	netstat	setupcon
bzcmp	fusermount	nisdomainname	sh
bzdiff	getfacl	ntfs-3g	sh.distrib
bzegrep	grep	ntfs-3g.probe	sleep
bzexe	gunzip	ntfs-3g.secaudit	ss
bzfgrep	gzexe	ntfs-3g.usermap	static-sh
bzgrep	gzip	ntfscat	stty
bzip2	hostname	ntfsck	su
bzip2recover	ip	ntfscluster	sync
bzless	kbd_mode	ntfscmp	tailf
bzmore	kill	ntfsdump_logfile	tar
cat	kmod	ntfsfix	tempfile
chacl	less	ntfsinfo	touch
chgrp	lessecho	ntfsls	true
chmod	lessfile	ntfsmftalloc	udevadm
chown	lesskey	ntfsmove	unlockmgr_server
chvt	lesspipe	ntfstruncate	umount
cp	ln	ntfswipe	uname
cpio	loadkeys	open	uncompress
dash	login	openvt	unicode_start
date	logintcl	pidof	vdir
dbus-cleanup-sockets	lowntfs-3g	ping	vmmouse_detect
dbus-daemon	ls	ping6	which
dbus-uuidgen	lsblk	plymouth	whiptail
dd	lsmode	plymouth-upstart-bridge	ypdomainname
df	mkdir	ps	zcat
dir	mknod	pwd	zcmp
dmesg	mktemp	rbash	zdiff
dnsdomainname	more	readlink	zegrep
domainname	mount	red	zfgrep
dumpkeys	mountpoint	rm	zforce
echo	mt	rmdir	zgrep
ed	mt-gnu	rnano	zless
egrep	mv	running-in-container	zmore
false	nano	run-parts	znew

look in usr/bin

dpkg-maintscript-helper	purple-send
dpkg-query	purple-send-async

dpkg-split	purple-url-handler
dpkg-statoverride	pwdx
dpkg-trigger	pxelinux-options
du	py3clean
dumpkeys	py3compile
duplicity	py3versions
dvd-ram-control	pybuild
dvd+rw-booktype	pyclean
dvd+rw-format	pycolor
dvd+rw-mediainfo	pycompile
dvipdf	pydoc
dwp	pydoc2.7
edit	pydoc3
editdiff	pydoc3.4
editor	pygettext
editres	pygettext2.7
eject	pygettext3
elfedit	pygettext3.4
empathy	pygmentize
empathy-accounts	pyhtmlizer
empathy-debugger	python
enc2xs	python2
enchant	python2.7
enchant-lsmod	python2.7-config
env	python2-config
envsubst	python3
eog	python3.4
eps2eps	python3.4m
eqn	python3m
esc-m	python-config
evince	pyvenv-3.4
evince-previewer	pyversions
evince-thumbnailer	qcollectiongenerator
ex	qdbus
expand	qdbuscpp2xml
expiry	qdbusviewer
expr	qdbusxml2cpp
f2py	qdoc
f2py2.7	qdoc3
factor	qglnfo
faillog	qhelpconverter
fallocate	qhelpgenerator
fc-cache	qmake
fc-cat	qml
fc-list	qml1plugindump
fc-match	qmlbundle
fc-pattern	qmlimportscanner
fc-query	qmlmin
fc-scan	qmlplugindump

fc-validate	qmlprofiler
file	qmlscene
file-roller	qmltestrunner
filterdiff	qmlviewer
find	qpdf
find2perl	qpdldecode
firefox	qtchooser
fixcvsdiff	qtconfig
fix-qdf	qtpaths
flipdiff	quirks-handler
flock	ranlib
fmt	rcc
fold	rcp
font2c	rctest
fonttosfnt	rdiffdir
foo2hbpl2	readelf
foo2hbpl2-wrapper	readom
foo2hiperc	recode-sr-latin
foo2hiperc-wrapper	recountdiff
foo2hp	rediff
foo2hp2600-wrapper	remmina
foo2lava	rename
foo2lava-wrapper	rename.ul
foo2oak	rendercheck
foo2oak-wrapper	renice
foo2qpdl	reset
foo2qpdl-wrapper	resize
foo2slx	resizecons
foo2slx-wrapper	resizepart
foo2xqx	rev
foo2xqx-wrapper	rfcomm
foo2zjs	rgrep
foo2zjs-icc2ps	rhythmbox
foo2zjs-pstops	rhythmbox-client
foo2zjs-wrapper	rlogin
free	rmid
friends-dispatcher	rmiregistry
friends-service	route
from	routel
fsfonts	rpcclient
fstobdf	rpcgen
ftp	rpl8
funzip	rsh
g++	rstart
g++-4.8	rstartd
gamma4scanimage	rsync
gatttool	rtstat
gcalccmd	runcon
gcc	run-mailcap

gcc-4.8	run-with-aspell
gcc-ar	runxldr
gcc-ar-4.8	rview
gcc-nm	s2p
gcc-nm-4.8	samba-regedit
gcc-ranlib	samba-tool
gcc-ranlib-4.8	sane-find-scanner
gconf-merge-tree	savelog
gconftool	scanimage
gconftool-2	scp
gcore	scp-dbus-service
gcov	screendump
gcov-4.8	script
gcr-viewer	scriptreplay
gdb	sdiff
gdbtui	sdptool
gdbus	seahorse
gdialog	see
gedit	select-default-iwrap
gencat	select-editor
genisoimage	sensible-browser
geqn	sensible-editor
getconf	sensible-pager
geteltorito	seq
getent	servertool
getfacl	service
gethostip	session-installer
getkeycodes	session-migration
getopt	sessreg
gettext	setarch
gettextize	setfacl
gettext.sh	setkeycodes
ghostscript	setleds
ginstall-info	setlogcons
gio-querymodules	setmetamode
gipddcode	setpci
gkbd-keyboard-display	setsid
glib-compile-resources	setterm
glib-compile-schemas	setxkbmap
gnome-calculator	sftp
gnome-character-map	sg
gnome-contacts	sha1pass
gnome-disk-image-mounter	sha1sum
gnome-disks	sha224sum
gnome-file-share-properties	sha256sum
gnome-font-viewer	sha384sum
gnome-help	sha512sum
gnome-keyring	shasum
gnome-keyring-3	shotwell

gnome-keyring-daemon	showconsolefont
gnome-language-selector	showfont
gnome-open	showkey
gnome-power-statistics	showrgb
gnome-screensaver	shred
gnome-screensaver-command	shuf
gnome-screenshot	signond
gnome-session	signonpluginprocess
gnome-session-inhibit	signon-ui
gnome-session-properties	simple-scan
gnome-session-quit	size
gnome-system-log	skill
gnome-system-log-pkexec	slabtop
gnome-system-monitor	slogin
gnome-terminal	slxdecode
gnome-terminal.wrapper	smbcacls
gnome-text-editor	smbclient
gnome-thumbnail-font	smbcquotas
gnome-www-browser	smbget
gold	smbpasswd
gpasswd	smbpool
gpg	smbtar
gpgsplit	smbtree
gpgv	smproxy
gpg-zip	snice
gpic	soelim
gprof	soffice
gpu-manager	software-center
grepdiff	software-center-gtk3
gresource	software-properties-gtk
groff	sort
grog	sotruss
grops	spd-conf
grotty	spd-say
groups	speaker-test
growisofs	speech-dispatcher
grub-editenv	splain
grub-file	split
grub-fstest	splitdiff
grub-glue-efi	splitfont
grub-kbdcomp	sprof
grub-menulst2cfg	ssh
grub-mkfont	ssh-add
grub-mkimage	ssh-agent
grub-mklayout	ssh-argv0
grub-mknetdir	ssh-askpass
grub-mkpasswd-pbkdf2	ssh-copy-id
grub-mkreldpath	ssh-keygen
grub-mkrescue	ssh-keyscan

grub-mkstandalone	start-pulseaudio-kde
grub-mount	start-pulseaudio-x11
grub-ntldr-img	startx
grub-render-label	stat
grub-script-check	stdbuf
grub-syslinux2cfg	strace
gs	strings
gsbj	strip
gsdj	sudo
gsdj500	sudoedit
gsettings	sudoreplay
gsettings-data-convert	sum
gsettings-schema-convert	synclient
gslj	syndaemon
gslp	syslinux
gsnd	syslinux2ansi
gst-discoverer-0.10	syslinux-legacy
gst-discoverer-1.0	system-config-printer
gst-feedback-0.10	system-config-printer-applet
gst-inspect-0.10	t1ascii
gst-inspect-1.0	t1asm
gst-install	t1binary
gst-launch-0.10	t1disasm
gst-launch-1.0	t1mac
gst-play-1.0	t1unmac
gststreamer-codec-install	tabs
gst-typefind-0.10	tac
gst-typefind-1.0	tail
gst-visualise-0.10	tap2deb
gst-xmlinspect-0.10	tap2rpm
gst-xmllaunch-0.10	tapconvert
gtbl	taskset
gtf	tbl
gtk-launch	tclsh
gtk-update-icon-cache	tclsh8.6
gtk-update-icon-cache-3.0	tee
gtk-window-decorator	telepathy-indicator
gucharmap	telnet
guild	telnet.netkit
gvfs-cat	test
gvfs-copy	testparm
gvfs-info	tgz
gvfs-less	thunderbird
gvfs-ls	tic
gvfs-mime	time
gvfs-mkdir	timedatectl
gvfs-monitor-dir	timeout
gvfs-monitor-file	tload
gvfs-mount	tnameserv

gvfs-move	toe
gvfs-open	top
gvfs-rename	toshset
gvfs-rm	totem
gvfs-save	totem-audio-preview
gvfs-set-attribute	totem-video-thumbnailer
gvfs-trash	touch
gvfs-tree	tput
h2ph	tr
h2xs	tracepath
hardening-check	tracepath6
hbpldecode	traceroute6
hcitool	traceroute6.iputils
hd	transmission-gtk
head	transset
helpztags	trial
hexdump	troff
hipercdecode	truncate
host	trust
hostid	tset
hostnamectl	tsort
hp-align	tst_inactivity_timer
hp-check	ttfread
hp-clean	tty
hp-colorcal	twistd
hp-config_usb_printer	tzselect
hp-doctor	ubuntu-bug
hp-firmware	ubuntu-drivers
hp-hpdio	ubuntu-support-status
hp-info	ubuntu-webapps-update-index
hp-levels	ucf
hp-logcapture	ucfq
hp-makeuri	ucfr
hp-pkservice	ucs2any
hp-plugin	udisksctl
hp-plugin-ubuntu	uic
hp-probe	uic3
hp-query	ul
hp-scan	umax_pp
hp-setup	unattended-upgrade
hp-testpage	unattended-upgrades
hp-timedate	unexpand
hp-unload	unicode_stop
i386	uniq
ibus	unity
ibus-daemon	unity-control-center
ibus-setup	unity-scope-loader
ibus-table-createdb	unity-settings-daemon
iceauth	unity-webapps-desktop-file

ico	unity-webapps-qml-launcher
iconv	unity-webapps-runner
id	unlink
iecset	unlzma
ijs_pxljr	unopkg
im-config	unpack200
im-launch	unshare
info	unwrapdiff
infobrowser	unxz
infocmp	unzip
infokey	unzipsfx
infotocap	update-alternatives
init-checkconf	updatedb
initctl2dot	updatedb.mlocate
inputattach	update-desktop-database
install	update-gconf-defaults
install-info	update-manager
install-printerdriver	update-mime-database
instmodsh	update-mime-database.real
intel_audio_dump	update-notifier
intel_backlight	upower
intel_bios_dumper	uptime
intel_bios_reader	usb-creator-gtk
intel_disable_clock_gating	usb-devices
intel_dpio_read	usbhid-dump
intel_dpio_write	usb_printerid
intel_error_decode	users
intel_forcewaked	uuidgen
intel_gpu_abrt	uxterm
intel_gpu_time	uz
intel_gpu_top	VBoxClient
intel_gtt	VBoxClient-all
intel_l3_parity	VBoxControl
intel_reg_checker	vi
intel_reg_dumper	view
intel_reg_read	viewres
intel_reg_snapshot	vim.tiny
intel_reg_write	vino-passwd
intel_sprite_on	vino-preferences
intel_stepping	vmstat
intel_upload_blit_large	vmwarectrl
intel_upload_blit_large_gtt	volname
intel_upload_blit_large_map	vstp
intel_upload_blit_small	w
interdiff	wall
ionice	watch
ipcluster	wc
ipcmk	webapp-container
ipcontroller	webbrowser-app

ipcrm	wftopfa
ipcs	wget
ipengine	whatis
iplogger	whereis
ipod-read-sysinfo-extended	which
ipod-time-sync	who
ippfind	whoami
ipptool	whoopsie
iproxy	whoopsie-preferences
iptables-xml	wish
ipython	wish8.6
ipython2.7	wodim
irunner	word-list-compress
ischroot	wpa_passphrase
isdv4-serial-debugger	w.procps
isodump	write
isohybrid	X
isohybrid.pl	X11
isoinfo	x11perf
isovfy	x11perfcomp
ispell-wrapper	x86_64
java	x86_64-linux-gnu-addr2line
jexec	x86_64-linux-gnu-ar
join	x86_64-linux-gnu-as
json_pp	x86_64-linux-gnu-c++filt
kbdinfo	x86_64-linux-gnu-cpp
kerneloops-submit	x86_64-linux-gnu-cpp-4.8
keytool	x86_64-linux-gnu-dwp
killall	x86_64-linux-gnu-elfedit
koi8rxterm	x86_64-linux-gnu-g++
l2ping	x86_64-linux-gnu-g++-4.8
l2test	x86_64-linux-gnu-gcc
landscape-client-ui-install	x86_64-linux-gnu-gcc-4.8
last	x86_64-linux-gnu-gcc-ar
lastb	x86_64-linux-gnu-gcc-ar-4.8
lastlog	x86_64-linux-gnu-gcc-nm
lavadecode	x86_64-linux-gnu-gcc-nm-4.8
lcf	x86_64-linux-gnu-gcc-ranlib
lconvert	x86_64-linux-gnu-gcc-ranlib-4.8
ld	x86_64-linux-gnu-gcov
ld.bfd	x86_64-linux-gnu-gcov-4.8
ldd	x86_64-linux-gnu-gprof
ld.gold	x86_64-linux-gnu-ld
less	x86_64-linux-gnu-ld.bfd
lessecho	x86_64-linux-gnu-ld.gold
lessfile	x86_64-linux-gnu-nm
lesskey	x86_64-linux-gnu-objcopy
lesspipe	x86_64-linux-gnu-objdump
lexgrog	x86_64-linux-gnu-python2.7-config

libnetcfg	x86_64-linux-gnu-python-config
libreoffice	x86_64-linux-gnu-ranlib
line	x86_64-linux-gnu-readelf
linguist	x86_64-linux-gnu-size
link	x86_64-linux-gnu-strings
lintian	x86_64-linux-gnu-strip
lintian-info	xargs
linux32	xauth
linux64	xbiff
linux-boot-prober	xcalc
listres	xclipboard
lnstat	xclock
loadkeys	xcmsdb
loadunimap	xconsole
localc	xcursorgen
locale	xcutsel
locaectl	xdg-desktop-icon
localedef	xdg-desktop-menu
locate	xdg-email
lockfile-check	xdg-icon-resource
lockfile-create	xdg-mime
lockfile-remove	xdg-open
lockfile-touch	xdg-screensaver
lodraw	xdg-settings
loffice	xdg-user-dir
lofromtemplate	xdg-user-dirs-gtk-update
logger	xdg-user-dirs-update
logname	xdiagnose
loimpress	xditview
lomath	xdpyinfo
look	xdriinfo
lorder	xedid
loweb	xedit
lowriter	xev
lp	xeyes
lpoptions	xfd
lppasswd	xfontsel
lpq	xfsinfo
lpr	xgamma
lprm	xgc
lp_solve	xgettext
lpstat	xhost
lrelease	xinit
lsattr	xinput
lsb_release	xkbbell
lscpu	xkbcomp
lsdiff	xkbevd
lshw	xkbprint
lsinitramfs	xkbvleds

lsof	xkbwatch
lspci	xkeystone
lspgpot	xkill
lss16toppm	xload
lsusb	xlogo
ltrace	xlsatoms
luit	xlsclients
lupdate	xlsfonts
lxterm	xmag
lz	xman
lzcat	xmessage
lzcmp	xmlpatterns
lzdiff	xmlpatternsvalidator
lzegrep	xmodmap
lzfgrep	xmore
lzgrep	Xorg
lzless	xpci
lzma	xprop
lzmainfo	xqxdecode
lzmore	xrandr
mail-lock	xrandr-tool
mail-touchlock	xrdb
mail-unlock	xrefresh
make	xrotate
man	x-session-manager
mandb	xset
manhole	xsetmode
manpath	xsetpointer
mapscrn	xsetroot
mattrib	xsetwacom
mawk	xsm
mbadblocks	xstdcmap
mc	xsubpp
mcd	xterm
mcheck	x-terminal-emulator
mclasser	xvidtune
mcomp	xvinfo
mcookie	xwd
mcop	xwininfo
mc-tool	xwud
mc-wait-for-name	x-www-browser
md5pass	xxd
md5sum	xz
md5sum.textutils	xzcat
mdel	xzcmp
mdeltree	xzdiff
mdir	xzegrep
mdu	xzfgrep
memdiskfind	xzgrep

mesg	xzless
mformat	xzmore
mimeopen	yelp
mimetype	yes
min12xxw	zdump
minfo	zeitgeist-daemon
miniterm.py	zeitgeist-datahub
mkdiskimage	zenity
mkfifo	zip
mkfontdir	zipcloak
mkfontscale	zipdetails
mkisofs	zipgrep
mkmanifest	zipinfo
mk_modmap	zipnote
mkzftree	zipsplit
mlabel	zjsdecode
mlocate	zlib-flate
mmcli	zsoelim
mmd	

look/sbin

ds-ga-1007\$ ls /sbin

acpi_available	fstrim-all	mkfs	restart
agetty	gdisk	mkfs.bfs	rmmod
alsa	getcap	mkfs.cramfs	route
apm_available	getpcaps	mkfs.ext2	rtacct
apparmor_parser	getty	mkfs.ext3	rtmon
badblocks	halt	mkfs.ext4	runlevel
blkid	hdparm	mkfs.ext4dev	setcap
blockdev	hwclock	mkfs.fat	setvtrgb
bridge	ifconfig	mkfs.minix	sfdisk
brltty	ifdown	mkfs.msdos	sgdisk
brltty-setup	ifquery	mkfs.ntfs	shadowconfig
capsh	ifup	mkfs.vfat	shutdown
cfdisk	init	mkhomedir_helper	slattach
cgdisk	initctl	mkntfs	start
crda	insmod	mkswap	startpar
ctrlaltdel	installkernel	mntctl	startpar-upstart-inject
debugfs	ip	modinfo	start-stop-daemon
depmod	ip6tables	modprobe	status
dhclient	ip6tables-apply	mountall	stop
dhclient-script	ip6tables-restore	mount.fuse	sulogin
dmsetup	ip6tables-save	mount.lowntfs-3g	swaplabel
dosfsck	ipmaddr	mount.ntfs	swapoff
dosfslabel	iptables	mount.ntfs-3g	swapon
dumpe2fs	iptables-apply	mount.vboxsf	switch_root
e2fsck	iptables-restore	nameif	sysctl
e2image	iptables-save	ntfsclone	tc

e2label	iptunnel	ntfscp	telinit
e2undo	isosize	ntfslabel	tune2fs
ethtool	iw	ntfsresize	udevadm
fatlabel	iwconfig	ntfsundelete	udev
fdisk	iwevent	on_ac_power	umount.udisks2
findfs	iwgetid	pam_tally	unix_chkpwd
fixparts	iwlist	pam_tally2	unix_update
fsck	iwpriv	parted	upstart-dbus-bridge
fsck.cramfs	iwspy	partprobe	upstart-event-bridge
fsck.ext2	kbdrate	pccardctl	upstart-file-bridge
fsck.ext3	killall5	pivot_root	upstart-local-bridge
fsck.ext4	ldconfig	plipconfig	upstart-socket-bridge
fsck.ext4dev	ldconfig.real	plymouthd	upstart-udev-bridge
fsck.fat	logsave	poweroff	ureadahead
fsck.minix	losetup	rarp	wipefs
fsck.msos	lsmmod	raw	wpa_action
fsck.nfs	lspcmcia	reboot	wpa_cli
fsck.vfat	MAKEDEV	regdbdump	wpa_supplicant
fsfreeze	mii-tool	reload	xtables-multi
fstab-decode	mkdosfs	resize2fs	
fstrim	mke2fs	resolvconf	

```

look tmp
ds-ga-1007$ ls /tmp
hsperfdata_ds-ga-1007
luy491ji.tmp
OSL_PIPE_1000_SingleOfficeIPC_93bb229392f7ee9a7be78cc523d0be
ssh-ttvhfS7HQWMM
unity_support_test.1

```

```

look/boot
ds-ga-1007$ ls /boot
abi-3.13.0-32-generic      memtest86+.bin
abi-3.13.0-35-generic      memtest86+.elf
config-3.13.0-32-generic   memtest86+_multiboot.bin
config-3.13.0-35-generic   System.map-3.13.0-32-generic
grub                       System.map-3.13.0-35-generic
initrd.img-3.13.0-32-generic vmlinuz-3.13.0-32-generic
initrd.img-3.13.0-35-generic vmlinuz-3.13.0-35-generic

```

```

2
ds-ga-1007$ ls /dev
autofs      mcelog      sda5  tty3  tty60  ttyS4
block       mem          sg0   tty30 tty61  ttyS5
bsg         net          sg1   tty31 tty62  ttyS6
btrfs-control network_latency shm     tty32 tty63  ttyS7
bus         network_throughput snapshot tty33 tty7   ttyS8

```

cdrom	null	snd	tty34	tty8	ttyS9
char	port	sr0	tty35	tty9	uhid
console	ppp	stderr	tty36	ttyprintk	uinput
core	psaux	stdin	tty37	ttyS0	urandom
cpu	ptmx	stdout	tty38	ttyS1	vboxguest
cpu_dma_latency	pts	tty	tty39	ttyS10	vboxuser
cuse	ram0	tty0	tty4	ttyS11	vcs
disk	ram1	tty1	tty40	ttyS12	vcs1
dri	ram10	tty10	tty41	ttyS13	vcs2
ecryptfs	ram11	tty11	tty42	ttyS14	vcs3
fb0	ram12	tty12	tty43	ttyS15	vcs4
fd	ram13	tty13	tty44	ttyS16	vcs5
full	ram14	tty14	tty45	ttyS17	vcs6
fuse	ram15	tty15	tty46	ttyS18	vcs7
hidraw0	ram2	tty16	tty47	ttyS19	vcsa
hpet	ram3	tty17	tty48	ttyS2	vcsa1
input	ram4	tty18	tty49	ttyS20	vcsa2
kmsg	ram5	tty19	tty5	ttyS21	vcsa3
log	ram6	tty2	tty50	ttyS22	vcsa4
loop0	ram7	tty20	tty51	ttyS23	vcsa5
loop1	ram8	tty21	tty52	ttyS24	vcsa6
loop2	ram9	tty22	tty53	ttyS25	vcsa7
loop3	random	tty23	tty54	ttyS26	vga_arbiter
loop4	rkill	tty24	tty55	ttyS27	vhci
loop5	rtc	tty25	tty56	ttyS28	vhost-net
loop6	rtc0	tty26	tty57	ttyS29	zero
loop7	sda	tty27	tty58	ttyS3	
loop-control	sda1	tty28	tty59	ttyS30	
mapper	sda2	tty29	tty6	ttyS31	

3:

ds-ga-1007\$ ls /proc

1	1348	1514	1936	25	46	818	execdomains	mtrr
10	1350	1521	1940	26	47	819	fb	net
1041	1352	1530	1947	27	473	828	filesystems	pagetypeinfo
1061	1354	1574	1952	28	474	848	fs	partitions
1079	1359	1579	1974	2813	48	884	interrupts	sched_debug
11	1371	1580	1980	2820	5	9	iomem	schedstat
116	1377	1598	1989	2821	500	928	ioports	scsi
117	1381	16	1996	2873	506	935	ipmi	self
118	1384	1619	2	29	610	936	irq	slabinfo
119	1389	17	20	290	638	946	kallsyms	softirqs
1193	1393	1704	2009	2915	656	947	kcore	stat
12	14	1725	2014	295	68	acpi	keys	swaps
128	1402	1773	2022	3	69	asound	key-users	sys
1284	1403	1775	2027	30	695	buddyinfo	kmsg	sysrq-trigger
129	1408	1777	2049	31	7	bus	kpagecount	sysvipc
1292	1411	1781	21	3115	70	cgroups	kpageflags	timer_list

1297	1451	1787	2140	32	700	cmdline	latency_stats	timer_stats
13	1497	1799	2142	355	753	consoles	loadavg	tty
1302	15	18	22	397	757	cpuinfo	locks	uptime
1313	1502	1837	23	429	762	crypto	mdstat	version
1323	1505	19	24	434	763	devices	meminfo	version_signature
1332	1507	1903	2454	44	766	diskstats	misc	vmallocinfo
1339	1509	1911	2457	441	8	dma	modules	vmstat
1346	1511	1931	2458	456	816	driver	mounts	zoneinfo

find in interrupts

ds-ga-1007\$ cat /proc/interrupts

```

CPU0
0:   57 IO-APIC-edge  timer
1:  2196 IO-APIC-edge  i8042
8:    0 IO-APIC-edge  rtc0
9:    0 IO-APIC-fasteoi acpi
12: 15397 IO-APIC-edge  i8042
14: 34012 IO-APIC-edge  ata_piix
15:    0 IO-APIC-edge  ata_piix
19: 17462 IO-APIC-fasteoi eth0
20: 23418 IO-APIC-fasteoi vboxguest
21: 14353 IO-APIC-fasteoi ahci, snd_intel8x0
22:   32 IO-APIC-fasteoi ohci_hcd:usb1
NMI:    0 Non-maskable interrupts
LOC: 1006672 Local timer interrupts
SPU:    0 Spurious interrupts
PMI:    0 Performance monitoring interrupts
IWI: 26606 IRQ work interrupts
RTR:    0 APIC ICR read retries
RES:    0 Rescheduling interrupts
CAL:    0 Function call interrupts
TLB:    0 TLB shootdowns
TRM:    0 Thermal event interrupts
THR:    0 Threshold APIC interrupts
MCE:    0 Machine check exceptions
MCP:  116 Machine check polls
ERR:    0
MIS:    0

```

find in devices

ds-ga-1007\$ cat /proc/devices

Character devices:

```

1 mem
4 /dev/vc/0
4 tty
4 ttyS
5 /dev/tty
5 /dev/console

```

5 /dev/ptmx
5 ttyprintk
6 lp
7 vcs
10 misc
13 input
21 sg
29 fb
99 ppdev
108 ppp
116 alsa
128 ptm
136 pts
180 usb
189 usb_device
216 rfcomm
226 drm
251 hidraw
252 bsg
253 watchdog
254 rtc

Block devices:

1 ramdisk
259 blkext
7 loop
8 sd
9 md
11 sr
65 sd
66 sd
67 sd
68 sd
69 sd
70 sd
71 sd
128 sd
129 sd
130 sd
131 sd
132 sd
133 sd
134 sd
135 sd
252 device-mapper
253 virtblk
254 mdp

cpu info

```
ds-ga-1007$ cat /proc/cpuinfo
```

```
processor      : 0
vendor_id     : GenuineIntel
cpu family    : 6
model         : 69
model name    : Intel(R) Core(TM) i5-4258U CPU @ 2.40GHz
stepping      : 1
microcode     : 0x19
cpu MHz       : 2402.846
cache size    : 6144 KB
physical id   : 0
siblings      : 1
core id       : 0
cpu cores     : 1
apicid        : 0
initial apicid : 0
fpu           : yes
fpu_exception : yes
cpuid level   : 5
wp            : yes
flags         : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush
mmx fxsr sse sse2 syscall nx rdtscp lm constant_tsc rep_good nopl pni monitor ssse3 lahf_lm
bogomips      : 4805.69
clflush size  : 64
cache_alignment : 64
address sizes  : 39 bits physical, 48 bits virtual
power management:
```

mem info

```
ds-ga-1007$ cat /proc/meminfo
```

```
MemTotal:      4048368 kB
MemFree:       2933032 kB
Buffers:       59700 kB
Cached:        462364 kB
SwapCached:      0 kB
Active:        630708 kB
Inactive:      376436 kB
Active(anon):   485820 kB
Inactive(anon): 5288 kB
Active(file):   144888 kB
Inactive(file): 371148 kB
Unevictable:    16 kB
Mlocked:       16 kB
SwapTotal:     4193276 kB
SwapFree:      4193276 kB
```

Dirty: 0 kB
Writeback: 0 kB
AnonPages: 485092 kB
Mapped: 131924 kB
Shmem: 6032 kB
Slab: 43732 kB
SReclaimable: 25296 kB
SUnreclaim: 18436 kB
KernelStack: 2576 kB
PageTables: 24852 kB
NFS_Unstable: 0 kB
Bounce: 0 kB
WritebackTmp: 0 kB
CommitLimit: 6217460 kB
Committed_AS: 2505820 kB
VmallocTotal: 34359738367 kB
VmallocUsed: 55892 kB
VmallocChunk: 34359678343 kB
HardwareCorrupted: 0 kB
AnonHugePages: 198656 kB
HugePages_Total: 0
HugePages_Free: 0
HugePages_Rsvd: 0
HugePages_Surp: 0
Hugepagesize: 2048 kB
DirectMap4k: 42944 kB
DirectMap2M: 4151296 kB

uptime

ds-ga-1007\$ cat /proc/uptime
35058.93 32970.14

proc for

ds-ga-1007\$ cd /home

ds-ga-1007\$ pwd

/home