

Chapter 2

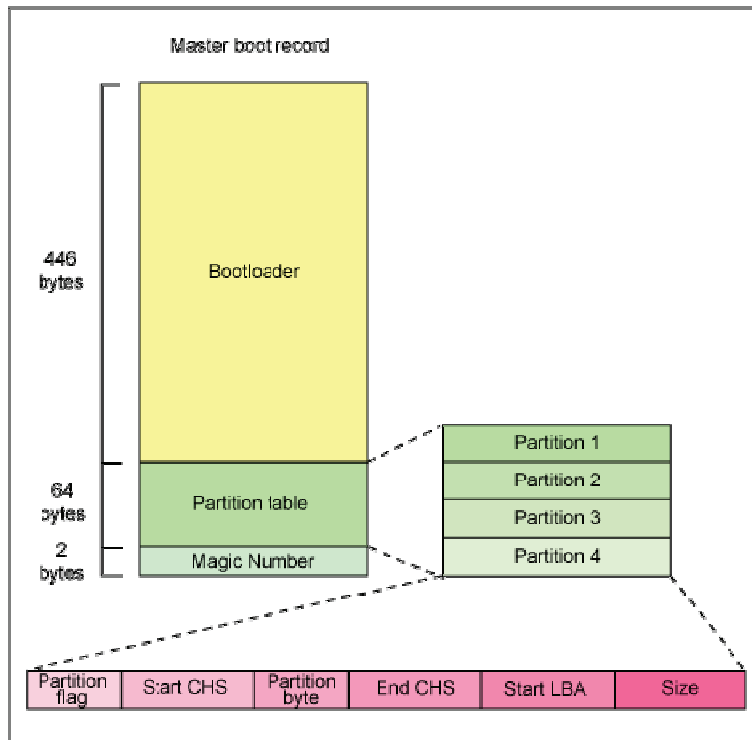
Operate running systems

Boot Sequence

BIOS	Basic Input/Output System executes MBR
MBR	Master Boot Record executes GRUB
GRUB	Grand Unified Bootloader executes Kernel thegeekstuff.com
Kernel	Kernel executes /sbin/init
Init	Init executes runlevel programs
Runlevel	Runlevel programs are executed from /etc/rc.d/rc*.d/

ls /var/log

- Bios
- MBR --> 512 byte
- GRUB



```
[root@rajaopenldap1 log]# vim /etc/grub.conf
```



```
[root@rajaopenldap1 log]# locate vmlinuz
/boot/.vmlinuz-2.6.32-431.20.3.el6.i686.hmac
/boot/.vmlinuz-2.6.32-431.23.3.el6.i686.hmac
/boot/.vmlinuz-2.6.32-431.29.2.el6.i686.hmac
/boot/.vmlinuz-2.6.32-504.1.3.el6.i686.hmac
/boot/.vmlinuz-2.6.32-504.el6.i686.hmac
/boot/vmlinuz-2.6.32-431.20.3.el6.i686
/boot/vmlinuz-2.6.32-431.23.3.el6.i686
/boot/vmlinuz-2.6.32-431.29.2.el6.i686
```

246 RHCSA دستورات، کدها، مثال ها و سناریوهای عملی اجرا شده در مدرک بین‌المللی لینوکس

```
/boot/vmlinuz-2.6.32-504.1.3.el6.i686
```

```
/boot/vmlinuz-2.6.32-504.el6.i686
```

- Kernel
- init
- runlevel

Run Levels

cat /etc/inittab

```
# inittab is only used by upstart for the default runlevel.
```

```
#
```

```
# ADDING OTHER CONFIGURATION HERE WILL  
HAVE NO EFFECT ON YOUR SYSTEM.
```

```
#
```

```
# System initialization is started by /etc/init/rcS.conf
```

```
#
```

```
# Individual runlevels are started by /etc/init/rc.conf
```

```
#
```

```
# Ctrl-Alt-Delete is handled by /etc/init/control-alt-  
delete.conf
```

```
#
```

```
# Terminal gettys are handled by /etc/init/tty.conf and  
/etc/init/serial.conf,
```

```
# with configuration in /etc/sysconfig/init.
```

```
#
```

```
# For information on how to write upstart event handlers,  
or how
```

```
# upstart works, see init(5), init(8), and initctl(8).
```

```
#
```

```
# Default runlevel. The runlevels used are:
```

```
# 0 - halt (Do NOT set initdefault to this)
```

```
# 1 - Single user mode
```

```
# 2 - Multiuser, without NFS (The same as 3, if you do  
not have networking)
```

```
# 3 - Full multiuser mode
```

```
# 4 - unused
```

```
# 5 - X11
```

```
# 6 - reboot (Do NOT set initdefault to this)
```

```
#
```

```
id:5:initdefault:
```

```
SV:123456:respawn:/command/svscanboot
```

```
[root@rajaopenldap1 log]#
```

```
[root@rajaopenldap1 log]# ps -aux | more
```

USER	PID	%CPU	%MEM	VSZ	RSS	TTY	STAT	START	TIME	COMMAND
root	1	0.0	0.1	2948	1328	?	Ss	19:55	0:04	/sbin/init
root	2	0.0	0.0	0	0	?	S	19:55	0:00	[kthreadd]
root	3	0.0	0.0	0	0	?	S	19:55	0:00	[migration/0]
root	4	0.0	0.0	0	0	?	S	19:55	0:00	[ksoftirqd/0]
root	5	0.0	0.0	0	0	?	S	19:55	0:00	[stopper/0]
root	6	0.0	0.0	0	0	?	S	19:55	0:02	[watchdog/0]
root	7	0.0	0.0	0	0	?	S	19:55	0:01	[events/0]

Chapter 2: Operate running systems**249**

```
root      8  0.0  0.0    0    0 ?    S   19:55  0:00
[cgroup]
root      9  0.0  0.0    0    0 ?    S   19:55  0:00
[khelper]
root     10  0.0  0.0    0    0 ?    S   19:55  0:00
[netns]
root     11  0.0  0.0    0    0 ?    S   19:55  0:00
[async/mgr]
root     12  0.0  0.0    0    0 ?    S   19:55  0:00 [pm]
root     13  0.0  0.0    0    0 ?    S   19:55  0:00
[sync_supers]
root     14  0.0  0.0    0    0 ?    S   19:55  0:00 [bdi-
default]
root     15  0.0  0.0    0    0 ?    S   19:55  0:00
[kintegrityd/0]
root     16  0.1  0.0    0    0 ?    S   19:55  0:06
[kblockd/0]
```

```
root@rajaopenldap1 rc5.d]# ls -l
```

```
total 0
```

```
lrwxrwxrwx  1 root root 17 Nov  1  2014 K00ipmievd ->
../init.d/ipmievd
```

```
lrwxrwxrwx 1 root root 22 Mar 5 2014 K01bmc-  
watchdog -> ../init.d/bmc-watchdog
```

```
lrwxrwxrwx 1 root root 14 Nov 1 2014 K01ctdb ->  
../init.d/ctdb
```

```
lrwxrwxrwx 1 root root 14 Nov 1 2014 K01luci ->  
../init.d/luci
```

```
lrwxrwxrwx. 1 root root 21 Oct 28 2012 K01modclusterd  
-> ../init.d/modclusterd
```

```
lrwxrwxrwx. 1 root root 16 Oct 30 2012 K01nagios ->  
../init.d/nagios
```

```
lrwxrwxrwx 1 root root 15 Nov 1 2014 K01numad ->  
../init.d/numad
```

```
lrwxrwxrwx. 1 root root 15 Oct 28 2012 K01ricci ->  
../init.d/ricci
```

```
lrwxrwxrwx. 1 root root 16 Apr 18 2013 K01smartd ->  
../init.d/smartd
```

```
lrwxrwxrwx 1 root root 14 Aug 2 2014 K02npcd ->  
../init.d/npcd
```

```
lrwxrwxrwx. 1 root root 16 Oct 30 2012 K02puppet ->  
../init.d/puppet
```

```
lrwxrwxrwx. 1 root root 16 Oct 30 2012 K03kannel ->  
../init.d/kannel
```

```
[root@rajaopenldap1 rc5.d]# cd ../init.d/
```



```
[root@rajaopenldap1 init.d]# ls
abrt-ccpp      foghorn      netcf-transaction  rpcsvcgssd
abrtcd        functions    netconsole         rstatd
abrt-oops     gatherer     netfs              rsyslog
acpid         gfs2        netlabel           rusersd
.
.
.
```

Sample:

```
[root@rajaopenldap1 init.d]# cat crond
#!/bin/sh
#
# crond      Start/Stop the cron clock daemon.
#
# chkconfig: 2345 90 60
# description: cron is a standard UNIX program that runs
user-specified \
#           programs at periodic scheduled times. vixie cron
adds a \
```

```
#                    number of features to the basic UNIX cron,  
including better \  
  
#                    security and more powerful configuration  
options.  
  
#### BEGIN INIT INFO  
  
# Provides: crond crontab  
  
# Required-Start: $local_fs $syslog  
  
# Required-Stop: $local_fs $syslog  
  
# Default-Start: 2345  
  
# Default-Stop: 90  
  
# Short-Description: run cron daemon  
  
# Description: cron is a standard UNIX program that runs  
user-specified  
  
#                    programs at periodic scheduled times. vixie cron  
adds a  
  
#                    number of features to the basic UNIX cron,  
including better  
  
#                    security and more powerful configuration  
options.  
  
#### END INIT INFO
```

```
[ -f /etc/sysconfig/crond ] || {  
    [ "$1" = "status" ] && exit 4 || exit 6  
}
```

```
RETVAL=0
```

```
prog="crond"
```

```
exec=/usr/sbin/crond
```

```
lockfile=/var/lock/subsys/crond
```

```
config=/etc/sysconfig/crond
```

```
# Source function library.
```

```
./etc/rc.d/init.d/functions
```

```
[ $UID -eq 0 ] && [ -e /etc/sysconfig/$prog ] && .  
/etc/sysconfig/$prog
```

```
start() {
```

```
    if [ $UID -ne 0 ] ; then
```

```
        echo "User has insufficient privilege."
```

```
        exit 4
```

```
    fi
```

```
[ -x $exec ] || exit 5
[ -f $config ] || exit 6
echo -n "Starting $prog: "
daemon $prog $CRONDARGS
retval=$?
echo
[ $retval -eq 0 ] && touch $lockfile
}

stop() {
    if [ $UID -ne 0 ] ; then
        echo "User has insufficient privilege."
        exit 4
    fi
    echo -n "Stopping $prog: "
    if [ -n "`pidfileofproc $exec`" ]; then
        killproc $exec
        RETVAL=3
    else
        failure "$Stopping $prog"
    fi
}
```

```
    retval=$?
    echo
    [ $retval -eq 0 ] && rm -f $lockfile
}

restart() {
    rh_status_q && stop
    start
}

reload() {
    echo -n $"Reloading $prog: "
    if [ -n "`pidfileofproc $exec`" ]; then
        killproc $exec -HUP
    else
        failure $"Reloading $prog"
    fi
    retval=$?
    echo
}
}
```

256 RHCSA بین‌المللی لینوکس در مدرک اجرا شده سناریوهای عملی کدها، مثال‌ها و سناریوهای عملی انجام شده در مدرک بین‌المللی لینوکس RHCSA دستورات، کدها، مثال‌ها و سناریوهای عملی انجام شده در مدرک بین‌المللی لینوکس RHCSA

```
force_reload() {
    # new configuration takes effect after restart
    restart
}

rh_status() {
    # run checks to determine if the service is running or
    use generic status
    status -p /var/run/crond.pid $prog
}

rh_status_q() {
    rh_status >/dev/null 2>&1
}

case "$1" in
    start)
        rh_status_q && exit 0
    $1
    ;;
```

```
stop)
    rh_status_q || exit 0
    $1
    ;;
restart)
    $1
    ;;
reload)
    rh_status_q || exit 7
    $1
    ;;
force-reload)
    force_reload
    ;;
status)
    rh_status
    ;;
condrestart|try-restart)
    rh_status_q || exit 0
    restart
    ;;
```

*)

```
echo "$Usage: $0
{start|stop|status|restart|condrestart|try-restart|reload|force-
reload}"
exit 2
esac
exit $?
```

```
[root@rajaopenldap1 init.d]#
```

service start | stop | restart |...

```
/etc/init.d/httpd restart
```

```
service httpd restart
```

tty

```
ps -aux | grep tty
```

Warning: bad syntax, perhaps a bogus '-'? See
</usr/share/doc/procps-3.2.8/FAQ>

```
root 3447 0.0 0.0 2004 476 tty2 Ss+ 20:01 0:00
/sbin/mingetty /dev/tty2
```



```
root 3449 0.0 0.0 2004 480 tty3 Ss+ 20:01 0:00  
/sbin/mingetty /dev/tty3
```

```
root 3455 0.0 0.0 2004 476 tty4 Ss+ 20:01 0:00  
/sbin/mingetty /dev/tty4
```

```
root 3464 0.0 0.0 2004 476 tty5 Ss+ 20:01 0:00  
/sbin/mingetty /dev/tty5
```

```
root 3468 0.0 0.0 2004 480 tty6 Ss+ 20:01 0:00  
/sbin/mingetty /dev/tty6
```

```
root 3509 1.3 3.3 51496 34332 tty1 Ss+ 20:02  
1:24 /usr/bin/Xorg :0 -br -verbose -audit 4 -auth  
/var/run/gdm/auth-for-gdm-rLXR0g/database -nolisten tcp  
vt1
```

shells

```
[root@rajaopenldap1 init.d]# cat /etc/shells
```

```
/bin/sh
```

```
/bin/bash
```

```
/sbin/nologin
```

```
/bin/tcsh
```

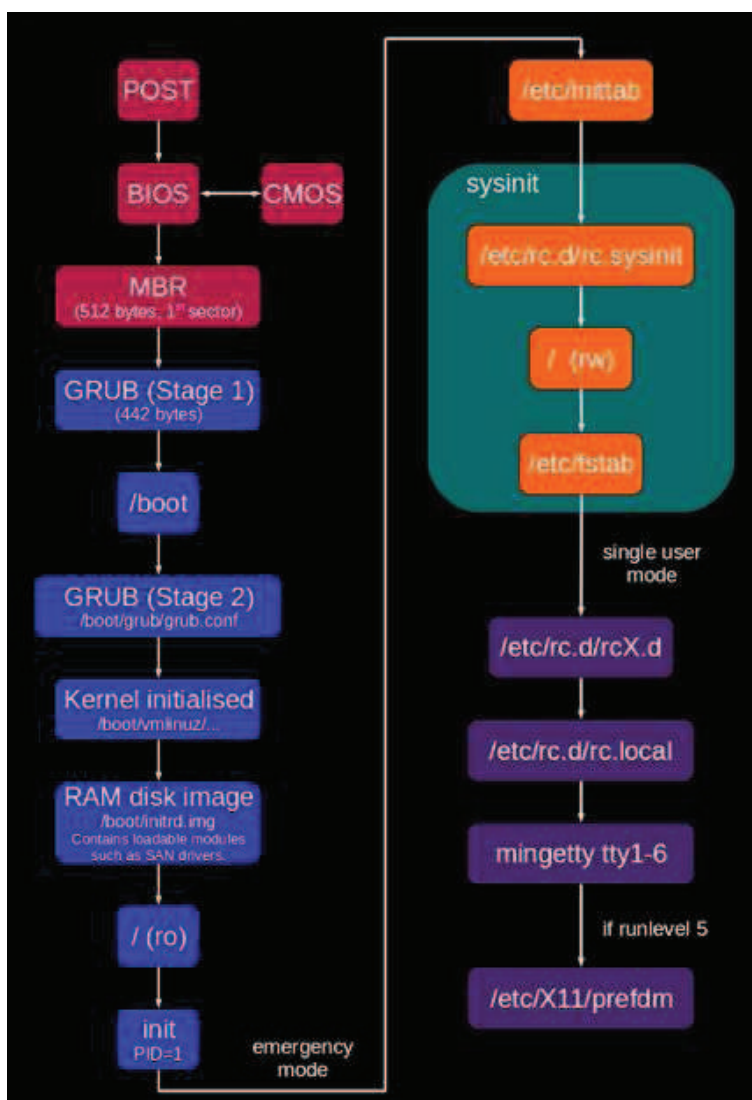
```
/bin/csh
```

```
/bin/zsh
```

```
/bin/mksh
```

/bin/ksh

/bin/dash



rc.sysinit

https://www.centos.org/docs/5/html/Installation_Guide-en-US/s1-boot-init-shutdown-process.html

When the init command starts, it becomes the parent or grandparent of all of the processes that start up automatically on the system. First, it runs the `/etc/rc.d/rc.sysinit` script, which sets the environment path, starts swap, checks the file systems, and executes all other steps required for system initialization. For example, most systems use a clock, so `rc.sysinit` reads the `/etc/sysconfig/clock` configuration file to initialize the hardware clock. Another example is if there are special serial port processes which must be initialized, `rc.sysinit` executes the `/etc/rc.serial` file.

fstab

```
[root@rajaopenldap1 init.d]# cat /etc/fstab
```

```
#
```

```
# /etc/fstab
```

```
# Created by anaconda on Sun Oct 28 18:24:52 2012
```

```
#
```

```

# Accessible filesystems, by reference, are maintained
under '/dev/disk'

# See man pages fstab(5), findfs(8), mount(8) and/or
blkid(8) for more info

#
/dev/mapper/vg_linuxcent-lv_root /                ext4
defaults      1 1

UUID=c048dae4-8232-45b3-aa6b-bf0b6449a980 /boot
ext4 defaults 1 2

/dev/mapper/vg_linuxcent-lv_swap swap           swap
defaults      0 0

tmpfs          /dev/shm          tmpfs defaults 0
0

devpts          /dev/pts          devpts
gid=5,mode=620 0 0

sysfs          /sys          sysfs defaults 0 0

proc          /proc          proc defaults 0 0

[root@rajaopenldap1 init.d]#

```

rc.local

```

[root@rajaopenldap1 init.d]# cat /etc/rc.d/rc.local
#!/bin/sh

```

```
#  
# This script will be executed *after* all the other init  
scripts.  
# You can put your own initialization stuff in here if you  
don't  
# want to do the full Sys V style init stuff.  
  
touch /var/lock/subsys/local  
exec /command/svscanboot &  
/usr/local/bin/spamd -d -r /var/run/spamd.pid  
/usr/share/squid/squid-start &  
[root@rajaopenldap1 init.d]#
```

etc/X11/prefdm

In runlevel 5, the `/etc/inittab` runs a script called `/etc/X11/prefdm`. The `prefdm` script executes the preferred X display manager[15] — `gdm`, `kdm`, or `xdm`, depending on the contents of the `/etc/sysconfig/desktop` file

```
##### getty
```

```
init      --->      rc.local      ---->      getty:1-  
login(authentication,authorization), 2-provide shell for  
users(bash,sh,korn,tsh,...) /etc/passwd :login:/bin/bash , 3-  
bashrc , bash_profile 4- prompt
```

```
[root@rajaopenldap1 init.d]# echo $SHELL
```

```
/bin/bash
```

/boot directory

```
[root@rajaopenldap1 init.d]# ls -l /boot/
```

```
total 173297
```

```
-rw-r--r-- 1 root root 109958 Jun 20 2014 config-2.6.32-  
431.20.3.el6.i686
```

```
-rw-r--r-- 1 root root 109958 Jul 31 2014 config-2.6.32-  
431.23.3.el6.i686
```

```
-rw-r--r-- 1 root root 109958 Sep 10 2014 config-  
2.6.32-431.29.2.el6.i686
```

```
-rw-r--r-- 1 root root 111011 Nov 11 2014 config-  
2.6.32-504.1.3.el6.i686
```

```
-rw-r--r-- 1 root root 111007 Oct 15 2014 config-2.6.32-  
504.el6.i686
```

```
drwxr-xr-x. 3 root root 1024 Oct 28 2012 efi
-rw-r--r--. 1 root root 166756 Jul 20 2011 elf-
memtest86+-4.10
drwxr-xr-x. 2 root root 1024 May 13 21:26 grub
-rw----- 1 root root 16340763 Jul 20 2014 initramfs-
2.6.32-431.20.3.el6.i686.img
-rw----- 1 root root 16341163 Aug 2 2014 initramfs-
2.6.32-431.23.3.el6.i686.img
-rw----- 1 root root 16352954 Sep 10 2014 initramfs-
2.6.32-431.29.2.el6.i686.img
-rw----- 1 root root 19561320 Dec 6 2014 initramfs-
2.6.32-504.1.3.el6.i686.img
-rw----- 1 root root 19538062 Nov 1 2014 initramfs-
2.6.32-504.el6.i686.img
drwx-----. 2 root root 12288 Oct 28 2012 lost+found
-rw-r--r--. 1 root root 165080 Jul 20 2011 memtest86+-
4.10
-rw-r--r--. 1 root root 53491161 Mar 6 2014 rear-
initrd.cgz
-rwxr-xr-x 1 root root 3919456 Oct 16 2013 rear-kernel
-rw-r--r-- 1 root root 190237 Jun 20 2014 symvers-
2.6.32-431.20.3.el6.i686.gz
```

```
-rw-r--r-- 1 root root 190258 Jul 31 2014 symvers-2.6.32-431.23.3.el6.i686.gz
-rw-r--r-- 1 root root 190278 Sep 10 2014 symvers-2.6.32-431.29.2.el6.i686.gz
-rw-r--r-- 1 root root 196522 Nov 11 2014 symvers-2.6.32-504.1.3.el6.i686.gz
-rw-r--r-- 1 root root 196522 Oct 15 2014 symvers-2.6.32-504.el6.i686.gz
-rw-r--r-- 1 root root 1983932 Jun 20 2014 System.map-2.6.32-431.20.3.el6.i686
-rw-r--r-- 1 root root 1984106 Jul 31 2014 System.map-2.6.32-431.23.3.el6.i686
-rw-r--r-- 1 root root 1984106 Sep 10 2014 System.map-2.6.32-431.29.2.el6.i686
-rw-r--r-- 1 root root 2001727 Nov 11 2014 System.map-2.6.32-504.1.3.el6.i686
-rw-r--r-- 1 root root 2001727 Oct 15 2014 System.map-2.6.32-504.el6.i686
-rwxr-xr-x 1 root root 4006368 Jun 20 2014 vmlinuz-2.6.32-431.20.3.el6.i686
-rwxr-xr-x 1 root root 4005728 Jul 31 2014 vmlinuz-2.6.32-431.23.3.el6.i686
-rwxr-xr-x 1 root root 4006304 Sep 10 2014 vmlinuz-2.6.32-431.29.2.el6.i686
```



```
-rwxr-xr-x 1 root root 4027744 Nov 11 2014 vmlinuz-  
2.6.32-504.1.3.el6.i686
```

```
-rwxr-xr-x 1 root root 4027488 Oct 15 2014 vmlinuz-  
2.6.32-504.el6.i686
```

```
[root@rajaopenldap1 init.d]#
```

Runlevels

```
[root@rajaopenldap1 init.d]# who -r
```

```
run-level 5 2016-05-13 19:51
```

```
# Default runlevel. The runlevels used are:
```

```
# 0 - halt (Do NOT set initdefault to this)
```

```
# 1 - Single user mode
```

```
# 2 - Multiuser, without NFS (The same as 3, if you do  
not have networking)
```

```
# 3 - Full multiuser mode
```

```
# 4 - unused
```

```
# 5 - X11
```

```
# 6 - reboot (Do NOT set initdefault to this)
```

```
#
```

268 RHCSA بین‌المللی لینوکس در مدرک اجرا شده در سناریوهای عملی کدها، مثال‌ها و سناریوهای عملی انجام شده در مدرک بین‌المللی لینوکس RHCSA، دستورات، کدها، مثال‌ها و سناریوهای عملی

```
[root@rajaopendap1 init.d]# runlevel
```

```
N 5
```

```
[root@rajaopendap1 init.d]#init 3
```

```
[root@rajaopendap1 ~]# runlevel
```

```
3 5
```

```
[root@rajaopendap1 ~]# who -r
```

```
run-level 5 2016-05-13 22:54 last=3
```

```
[root@rajaopendap1 ~]#
```

/etc/inittab

```
id:runlevel(s):action:process
```

```
id:5:initdefault:
```

```
# System initialization.
```

```
si::sysinit:/etc/rc.d/rc.sysinit
```

```
si:0123456:sysinit:/etc/rc.d/rc.sysinit
```

```
# Run gettys in standard runlevels
1:2345:respawn:/sbin/mingetty tty1
2:2345:respawn:/sbin/mingetty tty2
3:2345:respawn:/sbin/mingetty tty3
4:2345:respawn:/sbin/mingetty tty4
5:2345:respawn:/sbin/mingetty tty5
6:2345:respawn:/sbin/mingetty tty6
```

actions:

```
respawn
sysinit
initdefault
boot
once
wait
ctrlaltdel
```

services and runlevels

```
system-config-services
ls -l /etc/rc.d/rc2.d -- runlevel 2 services
```

```
[root@rajaopenldap1 ~]# chkconfig --list
MailScanner    0:off  1:off  2:off  3:off  4:off  5:off
6:off
NetworkManager 0:off  1:off  2:on   3:on   4:on   5:on
6:off
abrt-ccpp      0:off  1:off  2:off  3:on   4:off  5:on
6:off
abrt-oops      0:off  1:off  2:off  3:on   4:off  5:on
6:off
abrttd         0:off  1:off  2:off  3:on   4:off  5:on  6:off
acpid          0:off  1:off  2:on   3:on   4:on   5:on  6:off
amtu           0:off  1:off  2:off  3:off  4:off  5:off  6:off
apcupsd        0:off  1:off  2:off  3:off  4:off  5:off
6:off
arptables_jf   0:off  1:off  2:off  3:off  4:off  5:off
6:off
arpwatch       0:off  1:off  2:off  3:off  4:off  5:off
6:off
atd             0:off  1:off  2:off  3:on   4:on   5:on  6:off
auditd         0:off  1:off  2:on   3:on   4:on   5:on  6:off
autofs         0:off  1:off  2:off  3:on   4:on   5:on  6:off
```

Chapter 2: Operate running systems**271**

avahi-daemon 0:off 1:off 2:off 3:on 4:on 5:on
6:off

bacula-fd 0:off 1:off 2:off 3:off 4:off 5:off
6:off

bgpd 0:off 1:off 2:off 3:off 4:off 5:off 6:off

blk-availability 0:off 1:on 2:on 3:on 4:on
5:on 6:off

bluetooth 0:off 1:off 2:off 3:on 4:on 5:on
6:off

bmc-watchdog 0:off 1:off 2:off 3:off 4:off 5:off
6:off

cachefilesd 0:off 1:off 2:on 3:on 4:on 5:on
6:off

capi 0:off 1:off 2:off 3:off 4:off 5:off 6:off

```
[root@rajaopenldap1 ~]# chkconfig --list sshd
```

```
sshd 0:off 1:off 2:on 3:on 4:on 5:on 6:off
```

```
chkconfig httpd on --level 35
```

```
chkconfig httpd off --level 35
```

type of services

service sshd

Usage: /etc/init.d/sshd {start|stop|restart|reload|force-reload|condrestart|try-restart|status}

--bus example

1. init.d (Standalone)
2. inetd --> xinetd

```
[root@rajaopenldap1 xinetd.d]# cat telnet
```

```
# default: on
```

```
# description: The telnet server serves telnet sessions; it uses \
```

```
# unencrypted username/password pairs for authentication.
```

```
service telnet
```

```
{
```

```
    disable = no
```

```
    flags = REUSE
```

```
    socket_type = stream
```

```
    wait = no
```

```
    user = root
```

```
server    = /usr/sbin/in.telnetd
log_on_failure += USERID
}
```

pstree

same user and group id

```
groupadd -g 50 apache
useradd -u 50 -g 50 -s /sbin/nologin -d /var/www
```

```
apache:x:48:48:Apache:/var/www:/sbin/nologin
```

```
[root@rajaopenldap1 xinetd.d]# cat /etc/group | grep
apache
```

```
apache:x:48:
```

reboot ,halt , poweroff

```
shutdown -r now
```

OR

```
shutdown -r +0
```

halt

poweroff

shutdown -h now

OR

shutdown -h +0

[root@rajaopenldap1 xinetd.d]# last

```
root pts/2 :0.0 Fri May 13 23:19 still
logged in
root pts/1 192.168.1.8 Fri May 13 23:16 still
logged in
root pts/0 :0.0 Fri May 13 23:10 still
logged in
root tty1 :0 Fri May 13 23:00 still logged
in
root tty1 Fri May 13 22:54 - 23:00
(00:06)
root pts/1 :0.0 Fri May 13 21:18 - 21:18
(00:00)
root pts/1 :0.0 Fri May 13 21:15 - 21:15
(00:00)
```


Chapter 2: Operate running systems

275

root pts/0 :0.0 Fri May 13 21:08 - 22:51
(01:43)

root tty1 :0 Fri May 13 19:58 - 22:51
(02:52)

reboot system boot 2.6.32-504.1.3.e Fri May 13 19:51 -
23:40 (03:48)

root pts/0 :0.0 Tue May 10 15:29 - down
(00:31)

root tty1 :0 Tue May 10 15:27 - down
(00:33)

reboot system boot 2.6.32-504.1.3.e Tue May 10 15:21 -
16:01 (00:39)

root pts/0 :0.0 Sat May 7 16:07 - down
(02:53)

root tty1 :0 Sat May 7 16:05 - down
(02:56)

reboot system boot 2.6.32-504.1.3.e Sat May 7 15:38 -
19:01 (03:22)

.

.

.

init 0 == halt

```
init 6 == reboot
```

shutdown switches

```
ca::ctrlaltdel:/sbin/shutdown -t3 -r now
```

modules --remove needs for recompiling kernel

```
lsmod
```

```
[root@rajaopenldap1 xinetd.d]# cat /proc/modules
```

```
ip_set 26232 0 - Live 0xf7e5d000
```

```
nfnetlink 3180 1 ip_set, Live 0xf7e38000
```

```
ebtable_nat 1469 0 - Live 0xf8894000
```

```
ebtables 15176 1 ebtable_nat, Live 0xf888a000
```

```
ipt_MASQUERADE 1822 3 - Live 0xf886f000
```

```
iptables_nat 4954 1 - Live 0xf8865000
```

```
nf_nat 19222 2 ipt_MASQUERADE,iptables_nat, Live  
0xf8857000
```

```
xt_CHECKSUM 947 1 - Live 0xf880a000
```

```
iptables_mangle 2641 1 - Live 0xf8802000
```

```
tun 13150 1 - Live 0xf87eb000
```

```
bridge 67525 0 - Live 0xf87cb000
```

Chapter 2: Operate running systems

277

autofs4 20629 3 - Live 0xf87a7000

target_core_iblock 9191 0 - Live 0xf8797000

target_core_file 8898 0 - Live 0xf878b000

target_core_pscsi 15267 0 - Live 0xf877e000

target_core_mod 265036 3

target_core_iblock,target_core_file,target_core_pscsi,

Live 0xf8721000

configfs 22634 2 target_core_mod, Live 0xf86c1000

bnx2fc 79081 0 - Live 0xf869c000

cnic 47179 1 bnx2fc, Live 0xf866d000

uio 7822 1 cnic, Live 0xf8656000

fcoe 19570 0 - Live 0xf8646000

libfcoe 46951 2 bnx2fc,fcoe, Live 0xf8627000

.

.

.

modprobe --search and install modules

```
[root@rajaopenldap1 xinetd.d]# locate msdos.ko
```

```
/lib/modules/2.6.32-
```

```
431.20.3.el6.i686/kernel/fs/fat/msdos.ko
```

```
/lib/modules/2.6.32-  
431.23.3.el6.i686/kernel/fs/fat/msdos.ko  
  
/lib/modules/2.6.32-  
431.29.2.el6.i686/kernel/fs/fat/msdos.ko  
  
/lib/modules/2.6.32-  
504.1.3.el6.i686/kernel/fs/fat/msdos.ko  
  
/lib/modules/2.6.32-504.el6.i686/kernel/fs/fat/msdos.ko  
  
^C  
  
[root@rajaopenldap1 xinetd.d]# ^C  
  
[root@rajaopenldap1 xinetd.d]# lsmod | grep msdos  
  
[root@rajaopenldap1 xinetd.d]# modprobe msdos  
  
[root@rajaopenldap1 xinetd.d]# lsmod | grep msdos  
  
msdos          6582  0  
fat            47017  1 msdos
```

insmod

```
# insmod /lib/modules/2.6.11/kernel/fs/fat/fat.ko  
  
# insmod /lib/modules/2.6.11/kernel/fs/fat/msdos.ko  
  
  
  
# modprobe msdos
```

LOG in Linux

start,stop,modification, fail, success,etc written in logs.

log folder: /var/log

LogRotate

```
[root@rajaopenldap1 Desktop]# ls /var/log
```

```
aide          iptraf        secure-20160616
amanda        ircd          secure-20160622
anaconda.ifcfg.log  kannel       secure.back
anaconda.log    lastlog      setroubleshoot
anaconda.program.log  libvirt     spice-vdagent.log
anaconda.storage.log  luci        spooler
anaconda.syslog    mail         spooler-20160601
anaconda.xlog     maillog      spooler-20160606
anaconda.yum.log   maillog-20160601  spooler-
20160616
audit         maillog-20160606  spooler-20160622
bacula        maillog-20160616  squid
boot.log      maillog-20160622  srp_daemon.log
btmptmp      mailman        sssd
btmptmp-20160622  messages      stap-server
clamav        messages-20160601  systemtap.log
```

```

cluster      messages-20160606 tallylog
conman       messages-20160616 tomcat6
conman.old   messages-20160622 trace-cmd.log
ConsoleKit   mysqld.log    ttywatch
cron         nagios        tuned
cron-20160601 ntpstats     vbox
cron-20160606 piranha      vtund
cron-20160616                               pm-powersave.log
wpa_supplcant.log
cron-20160622 pnp4nagios   wtmp
cups         ppp          wtmp-20020101
dirsrv       prelink      Xorg.0.log
dmesg        preupgrade   Xorg.0.log.old
dmesg.old    puppet      Xorg.1.log
dracut.log   qmail        Xorg.1.log.old
dracut.log-20130417 quagga       Xorg.2.log
dracut.log-20140101 radius       Xorg.9.log
dracut.log-20150103 rear         yum.log
exim         sa           yum.log-20020101
fax          samba        yum.log-20140101
gdm          sa-update.log yum.log-20150103

```

Chapter 2: Operate running systems

281

hp secure yum.log-20160107

httpd secure-20160601

ibacm.log secure-20160606

[root@rajaopenldap1 Desktop]#

important log file

File	Program	Where ^a	Freq ^b	Systems ^c	Contents
acpid	acpid	F	64k	RZ	Power-related events
auth.log	sudo, etc. ^d	S	M	U	Authorizations
apache2/*	httpd (v2)	F	D	ZU	Apache HTTP server logs (v2)
apt*	APT	F	M	U	Aptitude package installations
boot.log	rc scripts	F ^e	M	R	Output from system startup scripts
boot.msg	kernel	H	-	Z	Dump of kernel message buffer
cron, cron/log	cron	S	W	RAH	cron executions and errors
cups/*	CUPS	F	W	ZRU	Printing-related messages (CUPS)
daemon.log	various	S	W	U	All daemon facility messages
debug	various	S	D	U	Debugging output
dmesg	kernel	H	-	RU	Dump of kernel message buffer
dpkg.log	dpkg	F	M	U	Package management log
faillog ^d	login	H	W	RZU	Unsuccessful login attempts
httpd/*	httpd	F	D	R	Apache HTTP server logs (in /etc)
kern.log	kernel	S	W	U	All kern facility messages
lastlog	login	H	-	RZ	Last login time per user (binary)
mail*	mail-related	S	W	all	All mail facility messages
messages	various	S	W	RZUS	The main system log file
rpm_pkgs	cron.daily	H	D	R	List of installed RPM packages
samba/*	smbd, etc.	F	W	-	Samba (Windows/CIFS file-sharing)
secure	sshd, etc.	S	M	R	Private authorization messages
suolog	su	F	-	SAH	su successes and failures
syslog*	various	S	W	SUH	The main system log file
warn	various	S	W	Z	All warning/error-level messages
wpars/*	wpar	F	-	A	Workload partition events
wtmp	login	H	M	all	Login records (binary)
xen/*	Xen	F	1m	RZU	Xen virtual machine information
Xorg.n.log	Xorg	F	W	RS	X Windows server errors
yum.log	yum	F	M	R	Package management log

messages

Jun 22 17:21:47 rajaopenldap1 avahi-daemon[2179]:
Invalid response packet from h
ost 192.168.7.213.

Jun 22 17:21:47 rajaopenldap1 avahi-daemon[2179]:
Invalid response packet from h
ost 192.168.7.213.

Jun 22 17:21:47 rajaopenldap1 avahi-daemon[2179]:
Invalid response packet from h
ost 192.168.7.213.

Jun 22 17:21:59 rajaopenldap1 dhclient[2237]:
DHCPREQUEST on eth5 to 192.168.119
.254 port 67 (xid=0x9624157)

Jun 22 17:21:59 rajaopenldap1 dhclient[2237]:
DHCPACK from 192.168.119.254 (xid=
0x9624157)

Jun 22 17:21:59 rajaopenldap1 NetworkManager[2166]:
<info> (eth5): DHCPv4 state
changed renew -> renew

Jun 22 17:21:59 rajaopenldap1 NetworkManager[2166]:
<info> address 192.168.119
.135

284 RHCSA دستورات، کدها، مثال ها و سناریوهای عملی اجرا شده در مدرک بین‌المللی لینوکس

```
Jun 22 17:21:59 rajaopenldap1 NetworkManager[2166]:  
<info> prefix 24 (255.255.
```

```
255.0)
```

```
Jun 22 17:21:59 rajaopenldap1 NetworkManager[2166]:  
<info> gateway 192.168.119
```

```
.2
```

```
Jun 22 17:21:59 rajaopenldap1 NetworkManager[2166]:  
<info> nameserver '192.168
```

```
.119.2'
```

```
Jun 22 17:21:59 rajaopenldap1 NetworkManager[2166]:  
<info> domain name 'locald
```

```
omain'
```

```
Jun 22 17:21:59 rajaopenldap1 dhclient[2237]: bound to  
192.168.119.135 -- renewa
```

```
Initializing cgroup subsys cpuset
```

```
Initializing cgroup subsys cpu
```

```
Linux version 2.6.32-504.1.3.el6.i686  
(mockbuild@c6b9.bsys.dev.centos.org) (gcc
```

```
version 4.4.7 20120313 (Red Hat 4.4.7-11) (GCC) ) #1  
SMP Tue Nov 11 16:30:09 UTC
```

```
2014
```

```
KERNEL supported cpus:
```

Intel GenuineIntel

AMD AuthenticAMD

NSC Geode by NSC

Cyrix CyrixInstead

Centaur CentaurHauls

Transmeta GenuineTMx86

Transmeta TransmetaCPU

UMC UMC UMC UMC

BIOS-provided physical RAM map:

BIOS-e820: 0000000000000000 - 000000000009f800
(usable)

BIOS-e820: 000000000009f800 - 00000000000a0000
(reserved)

BIOS-e820: 00000000000ca000 - 00000000000cc000
(reserved)

BIOS-e820: 00000000000dc000 - 00000000000100000
(reserved)

BIOS-e820: 00000000000100000 - 00000000003fef0000
(usable)

BIOS-e820: 00000000003fef0000 - 00000000003feff000
(ACPI data)

BIOS-e820: 00000000003feff000 - 00000000003ff00000
(ACPI NVS)

```
BIOS-e820: 000000003ff00000 - 0000000040000000  
(usable)
```

```
--More--
```

```
[root@rajaopendap1 log]# cat cron | more
```

```
Jun 22 17:21:13 rajaopendap1 run-  
parts(/etc/cron.daily)[6518]: finished logrota
```

```
te
```

```
Jun 22 17:21:13 rajaopendap1 run-  
parts(/etc/cron.daily)[5395]: starting makewha
```

```
tis.cron
```

```
Jun 22 17:22:02 rajaopendap1 CROND[7037]: (root)  
CMD (echo 3 > /proc/sys/vm/dro
```

```
p_caches)
```

```
Jun 22 17:22:02 rajaopendap1 CROND[7036]: (root)  
CMD (/usr/share/squid/squid-ch
```

```
eck >/dev/null 2>&1)
```

```
Jun 22 17:23:02 rajaopendap1 CROND[7650]: (root)  
CMD (/usr/share/squid/squid-ch
```

```
eck >/dev/null 2>&1)
```

```
Jun 22 17:23:02 rajaopendap1 CROND[7651]: (root)  
CMD (echo 3 > /proc/sys/vm/dro
```

```
p_caches)
```

```
[root@rajaopenldap1 log]# cat maillog | more
Jun 23 04:01:28 rajaopenldap1 update.bad.phishing.sites:
Delaying cron job up to
    600 seconds
Jun 22 17:44:12 rajaopenldap1 update.virus.scanners:
Delaying cron job up to 600
    seconds
Jun 22 17:51:43 rajaopenldap1 update.virus.scanners:
Found clamav installed
Jun 22 17:51:43 rajaopenldap1 update.virus.scanners:
Running autoupdate for clam
    av
Jun 22 17:51:44 rajaopenldap1 ClamAV-
autoupdate[20712]: ClamAV updater /usr/loca
l/bin/freshclam cannot be run
Jun 22 17:51:45 rajaopenldap1 update.virus.scanners:
Found generic installed
Jun 22 17:51:45 rajaopenldap1 update.virus.scanners:
Running autoupdate for gene
    ric
```

```
[root@rajaopenldap1 log]# cd httpd/
[root@rajaopenldap1 httpd]# pwd
/var/log/httpd
[root@rajaopenldap1 httpd]# ls
access_log          error_log-20160622  ssl_error_log-
20160601
access_log-20140830 rc-error_log        ssl_error_log-
20160606
access_log-20140901 rc_log              ssl_error_log-
20160616
access_log-20141016 ssl_access_log      ssl_error_log-
20160622
access_log-20160221          ssl_access_log-20130602
ssl_request_log
error_log                ssl_access_log-20130609
ssl_request_log-20130602
error_log-20160601        ssl_access_log-20130616
ssl_request_log-20130609
error_log-20160606        ssl_access_log-20140720
ssl_request_log-20130616
error_log-20160616                ssl_error_log
ssl_request_log-20140720
[root@rajaopenldap1 httpd]#
```

```
[root@rajaopenldap1 httpd]# cat ssl_error_log
[Wed Jun 22 17:20:31 2016] [warn] RSA server certificate
is a CA certificate (BasicConstraints: CA == TRUE !?)
[Wed Jun 22 18:17:36 2016] [warn] RSA server certificate
is a CA certificate (BasicConstraints: CA == TRUE !?)
[Wed Jun 22 18:17:45 2016] [warn] RSA server certificate
is a CA certificate (BasicConstraints: CA == TRUE !?)
[root@rajaopenldap1 httpd]#
```

```
[root@rajaopenldap1 log]# cat secure | more
Jun 22 18:17:02 rajaopenldap1 runuser:
pam_unix(runuser:session): session opened
for user ldap by (uid=0)
Jun 22 18:17:04 rajaopenldap1 runuser:
pam_unix(runuser:session): session closed
for user ldap
Jun 22 18:17:16 rajaopenldap1 runuser:
pam_unix(runuser:session): session opened
for user uidd by (uid=0)
Jun 22 18:17:16 rajaopenldap1 runuser:
pam_unix(runuser:session): session closed
for user uidd
```

Jun 22 18:19:37 rajaopenldap1 polkitd(authority=local):
Registered Authenticatio

n Agent for session /org/freedesktop/ConsoleKit/Session1
(system bus name :1.38

[/usr/libexec/polkit-gnome-authentication-agent-1], object
path /org/gnome/Polic

yKit1/AuthenticationAgent, locale en_US.UTF-8)

Jun 22 18:27:07 rajaopenldap1 pam: gdm-password:
pam_unix(gdm-password:session):

session opened for user root by (uid=0)

Jun 22 18:27:07 rajaopenldap1 polkitd(authority=local):
Unregistered Authenticat

ion Agent for session
/org/freedesktop/ConsoleKit/Session1 (system bus name
:1.3

8, object path
/org/gnome/PolicyKit1/AuthenticationAgent, locale
en_US.UTF-8) (d

isconnected from bus)

Jun 22 18:28:07 rajaopenldap1 polkitd(authority=local):
Registered Authenticatio

n Agent for session /org/freedesktop/ConsoleKit/Session2
(system bus name :1.61


```
[/usr/libexec/polkit-gnome-authentication-agent-1], object  
path /org/gnome/Polic
```

```
yKit1/AuthenticationAgent, locale en_US.UTF-8)
```

```
[root@rajaopenldap1 log]#
```

```
[root@rajaopenldap1 log]# cat boot.log | more
```

```
Welcome to CentOS
```

```
Starting udev: udevd[477]: NAME="%k" is superfluous  
and breaks kernel supplied n
```

```
ames, please remove it from /etc/udev/rules.d/60-  
legousbtower.rules:1
```

```
udev[477]: NAME="%k" is superfluous and breaks  
kernel supplied names, please re
```

```
move it from /etc/udev/rules.d/60-legousbtower.rules:1
```

```
udev[477]: GOTO 'pulseaudio_check_usb' has no  
matching label in: '/lib/udev/rul
```

```
es.d/90-pulseaudio.rules'
```

```
udev[477]: GOTO 'pulseaudio_check_usb' has no  
matching label in: '/lib/udev/rul
```

```
es.d/90-pulseaudio.rules'
```

[OK]

Setting hostname rajaopenldap1.raja.internal: [OK]

Setting up Logical Volume Management: 2 logical volume(s) in volume group "vg_linuxcent" now active

[OK]

Checking filesystems

/dev/mapper/vg_linuxcent-lv_root: clean, 589461/1150560 files, 4300242/4597760 b

locks

/dev/sda1: recovering journal

/dev/sda1: clean, 67/128016 files, 200462/512000 blocks

[root@rajaopenldap1 log]# cat mysqld.log | more

121104 15:48:01 mysqld_safe Starting mysqld daemon with databases from /var/lib/

mysql

121104 15:48:01 InnoDB: Initializing buffer pool, size = 8.0M

121104 15:48:01 InnoDB: Completed initialization of buffer pool

InnoDB: The first specified data file ./ibdata1 did not exist:

InnoDB: a new database to be created!

121104 15:48:01 InnoDB: Setting file ./ibdata1 size to 10 MB

InnoDB: Database physically writes the file full: wait...

121104 15:48:02 InnoDB: Log file ./ib_logfile0 did not exist: new to be created

InnoDB: Setting log file ./ib_logfile0 size to 5 MB

InnoDB: Database physically writes the file full: wait...

121104 15:48:02 InnoDB: Log file ./ib_logfile1 did not exist: new to be created

InnoDB: Setting log file ./ib_logfile1 size to 5 MB

InnoDB: Database physically writes the file full: wait...

InnoDB: Doublewrite buffer not found: creating new

InnoDB: Doublewrite buffer created

InnoDB: Creating foreign key constraint system tables

294 RHCSA بین‌المللی لینوکس در مدرک اجرا شده سناریوهای عملی کدها، مثال‌ها و سناریوهای عملی انجام شده در مدرک بین‌المللی لینوکس RHCSA دستورات، کدها، مثال‌ها و سناریوهای عملی انجام شده در مدرک بین‌المللی لینوکس RHCSA

utmp

wtmp

last, lastb

dmessg

dmesg option

time device name: message

```
[root@rajaopenldap1 log]# dmesg | grep -i eth0
```

```
eth0: registered as PCnet/PCI II 79C970A
```

```
udev: renamed network interface eth0 to eth5
```

```
[root@rajaopenldap1 log]#
```

```
[root@rajaopenldap1 log]# dmesg | grep -i Memory
```

```
initial memory mapped : 0 - 01000000
```

```
init_memory_mapping:          0000000000000000-  
00000000375fe000
```

```
crashkernel=auto resulted in zero bytes of reserved  
memory.
```

PM: Registered nosave memory: 00000000009f000 -
00000000000a0000

PM: Registered nosave memory: 0000000000a0000 -
00000000000ca000

PM: Registered nosave memory: 0000000000ca000 -
00000000000cc000

PM: Registered nosave memory: 0000000000cc000 -
00000000000dc000

PM: Registered nosave memory: 0000000000dc000 -
0000000000100000

Memory: 1010368k/1048576k available (4516k kernel
code, 37220k reserved, 2582k data, 532k init, 141256k
highmem)

virtual kernel memory layout:

please try 'cgroup_disable=memory' option if you don't
want memory cgroups

Initializing cgroup subsys memory

Freeing initrd memory: 19102k freed

Non-volatile memory driver v1.3

crash memory driver: version 1.1

Freeing unused kernel memory: 532k freed

```
#####logger
```

```
[root@rajaopenldap1 Desktop]# logger 'test for logger'
```

```
[root@rajaopenldap1 Desktop]# tail -n1 /var/log/messages
```

```
Jun 23 15:45:38 rajaopenldap1 root: test for logger
```

```
[root@rajaopenldap1 Desktop]#
```

logrotate service

```
[root@rajaopenldap1 Desktop]# cd /etc/cron.daily
```

```
[root@rajaopenldap1 cron.daily]# ls
```

```
00webalizer      cyrus-imapd      makewhatis.cron  
update_phishing_sites
```

```
0logwatch       exim-tidydb      mlocate.cron  
update_spamassassin
```

```
certwatch       freshclam        prelink
```

```
clean.quarantine greylist-tidy.sh readahead.cron
```

```
cups            logrotate        tmpwatch
```

```
[root@rajaopenldap1 cron.daily]# cat logrotate
```

```
#!/bin/sh
```

```
/usr/sbin/logrotate /etc/logrotate.conf >/dev/null 2>&1
```

```
EXITVALUE=$?
```

```
if [ $EXITVALUE != 0 ]; then
    /usr/bin/logger -t logrotate "ALERT exited abnormally
with [$EXITVALUE]"
fi
exit 0
[root@rajaopenldap1 cron.daily]#

[root@rajaopenldap1 cron.hourly]# cd /etc/logrotate.d/
[root@rajaopenldap1 logrotate.d]# ls
aide      freshclam  mailman    psacct     stap-server
apcupsd   httpd      mgetty    puppet     syslog
bacula    iptraf     mysqld    quagga     tomcat6
clamav    iscsiuiolog nagios     radiusd    trace-cmd
cman      kadmind    named     samba      ttywatch
conman    kannel     numad     sec        vsftpd
cups      krb5kdc    opensm    setroubleshoot
wpa_supplicant

cyrus-imapd libvirtd  piranha   squid      yum
dracut     libvirtd.lxc pnp4nagios srp_daemon
exim      luci      ppp       sssd
[root@rajaopenldap1 logrotate.d]# cat squid
```

```
/var/log/squid/*.log {
    weekly
    rotate 5
    compress
    notifempty
    missingok
    sharedscripts
    postrotate
        # Asks squid to reopen its logs. (log_rotate 0 is set in
        squid.conf)
        # errors redirected to make it silent if squid is not
        running
        /usr/sbin/squid -k rotate 2>/dev/null
        # Wait a little to allow Squid to catch up before the
        logs is compressed
        sleep 1
    endscript
}
[root@rajaopenldap1 logrotate.d]# cat ppp
# Logrotate file for ppp RPM
```



```
/var/log/ppp/connect-errors {  
    missingok  
    compress  
    notifempty  
    daily  
    rotate 5  
    create 0600 root root  
}
```

```
[root@rajaopenldap1 logrotate.d]#
```

```
[root@rajaopenldap1 logrotate.d]# cat /etc/logrotate.conf
```

```
# see "man logrotate" for details
```

```
# rotate log files weekly
```

```
weekly
```

```
# keep 4 weeks worth of backlogs
```

```
rotate 4
```

```
# create new (empty) log files after rotating old ones
```

```
create
```

300 RHCSA بین‌المللی لینوکس در مدرک اجرا شده سناریوهای عملی کدها، مثال‌ها و سناریوهای عملی انجام شده در مدرک بین‌المللی لینوکس RHCSA 300 دستورات، کدها، مثال‌ها و سناریوهای عملی انجام شده در مدرک بین‌المللی لینوکس RHCSA 300

```
# use date as a suffix of the rotated file
```

```
dateext
```

```
# uncomment this if you want your log files compressed
```

```
#compress
```

```
# RPM packages drop log rotation information into this  
directory
```

```
include /etc/logrotate.d
```

```
# no packages own wtmp and btmp -- we'll rotate them  
here
```

```
/var/log/wtmp {
```

```
    monthly
```

```
    create 0664 root utmp
```

```
        minsize 1M
```

```
    rotate 1
```

```
}
```

```
/var/log/btmp {
```

```
    missingok
```

```
monthly
create 0600 root utmp
rotate 1
}

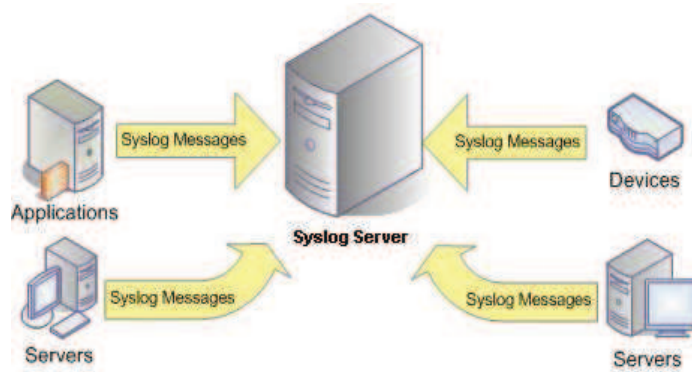
# system-specific logs may be also be configured here.
[root@rajaopenldap1 logrotate.d]#

[root@rajaopenldap1 logrotate.d]# cat syslog
/var/log/cron
/var/log/maillog
/var/log/messages
/var/log/secure
/var/log/spooler
{
    sharedscripts
    postrotate
        /bin/kill -HUP `cat /var/run/syslogd.pid 2>
/dev/null` 2> /dev/null || true
    endsript
}
```

```
[root@rajaopenldap1 logrotate.d]#
```

```
man logrotate
```

```
syslog server
```



```
[root@rajaopenldap1 etc]# yum search syslog
```

```
Loaded plugins: aliases, changelog, downloadonly, fastestmirror, kabi, presto, refresh-
```

```
          : packagekit, security, tmrepo, verify, versionlock
```

```
Loading support for CentOS kernel ABI
```

```
Loading mirror speeds from cached hostfile
```

```
* base: mirrors.coreix.net
```

```
* epel: mirror01.idc.hinet.net
```

```
* extras: mirrors.coreix.net
```

* remi: mirrors.neterra.net

* rpmforge: mirror.vit.com.tr

* rpmfusion-free-updates: kartolo.sby.datautama.net.id

* rpmfusion-nonfree-updates:
kartolo.sby.datautama.net.id

* updates: mirrors.coreix.net

=====
Matched: syslog
=====

golang-github-hashicorp-go-syslog-devel.i686 : Golang
syslog wrapper, cross-compile friendly

pcp-pmda-rsyslog.i686 : Performance Co-Pilot (PCP)
metrics for Rsyslog

perl-Logger-Syslog.noarch : Wrapper for syslog

perl-POE-Component-Server-Syslog.noarch : Syslog
services for POE

perl-Parse-Syslog.noarch : Parse Unix syslog files

perl-Parse-Syslog-Mail.noarch : Parse mailer logs from
syslog

perl-Sys-Syslog.i686 : Perl interface to the UNIX
syslog(3) calls

perl-Tie-Syslog.noarch : Tie a filehandle to Syslog

perl-Unix-Syslog.i686 : Syslog module for perl

rsyslog-gnutls.i686 : TLS protocol support for rsyslog

rsyslog-gssapi.i686 : GSSAPI authentication and encryption support for rsyslog

rsyslog-mysql.i686 : MySQL support for rsyslog

rsyslog-pgsql.i686 : PostgreSQL support for rsyslog

rsyslog-relp.i686 : RELP protocol support for rsyslog

rsyslog-snmp.i686 : SNMP protocol support for rsyslog

rsyslog7-elasticsearch.i686 : Elasticsearch output module for rsyslog

rsyslog7-gnutls.i686 : TLS protocol support for rsyslog

rsyslog7-gssapi.i686 : GSSAPI authentication and encryption support for rsyslog

rsyslog7-mysql.i686 : MySQL support for rsyslog

rsyslog7-pgsql.i686 : PostgreSQL support for rsyslog

rsyslog7-relp.i686 : RELP protocol support for rsyslog

rsyslog7-snmp.i686 : SNMP protocol support for rsyslog

sblim-cmpi-syslog.i686 : SBLIM syslog instrumentation

sblim-cmpi-syslog-test.i686 : SBLIM Syslog Instrumentation Testcases

syslog-ng.i686 : Next-generation syslog server

syslog-ng-devel.i686 : Development files for syslog-ng

syslog-ng-libdbi.i686 : libdbi support for syslog-ng

uwsgi-logger-rsyslog.i686 : uWSGI - rsyslog logger plugin

uwsgi-logger-syslog.i686 : uWSGI - syslog logger plugin

eventlog.i686 : Syslog-ng v2/v3 support library

eventlog-devel.i686 : Syslog-ng v2/v3 support library development files

eventlog-static.i686 : Syslog-ng v2/v3 support static library files

nodejs-ain2.noarch : A Node.js module for syslog logging (and a continuation of ain)

perl-SyslogScan.noarch : Parse system logs

petit.noarch : Log analysis tool for syslog, Apache and raw log files

rsyslog.i686 : Enhanced system logging and kernel message trapping daemons

rsyslog7.i686 : Enhanced system logging and kernel message trapping daemon

snoopy.i686 : A preload library to send shell commands to syslog

Name and summary matches only, use "search all" for everything.

```
[root@rajaopenldap1 etc]# service rsyslog status
```

```
[root@rajaopenldap1 etc]# Running...
[root@rajaopenldap1 etc]#
[root@rajaopenldap1 etc]#
[root@rajaopenldap1 etc]#
[root@rajaopenldap1 etc]# vim rsyslog.conf
```

My sample of syslog

```
local4.notice                /var/log/mytest
```

```
[root@rajaopenldap1 etc]# /var/log/mytest
bash: /var/log/mytest: No such file or directory
[root@rajaopenldap1 etc]# touch /var/log/mytest
[root@rajaopenldap1 etc]# service rsyslog restart
Shutting down system logger:                [ OK ]
Starting system logger:                      [ OK ]
[root@rajaopenldap1 etc]#
[root@rajaopenldap1 etc]# /var/log/mytest
bash: /var/log/mytest: Permission denied
[root@rajaopenldap1 etc]# cat /var/log/mytest
[root@rajaopenldap1 etc]# logger -p local4.notice 'this is a
test for syslog'
```



```
[root@rajaopenldap1 etc]# cat /var/log/mytest
```

```
Jun 23 18:48:03 rajaopenldap1 root:
```

```
Jun 23 18:48:41 rajaopenldap1 root: this is a test for  
syslog
```

```
[root@rajaopenldap1 etc]#
```