

EX300

Red Hat Certified Engineer (RHCE) exam

Version 9.0

QUESTION NO: 1

Create a repository for

<http://station.domain254.example.com/pub/rhel6/dvd>

Answer:

```
[root@krishna ~]# vi /etc/yum.repo.d/sample.repo
[rhec]
baseurl=http://station.domainx.example.com/pub/rhel6/dvd
gpgcheck=0

save& quit
```

```
[root@krishna ~]# yum clean all
[root@krishna ~]# yum list all
```

QUESTION NO: 2

Configure SELINUX

-The machine should be running in enforcing mode

```
[root@krishna ~]# vi /etc/selinux/config
[root@krishna ~]# cat /etc/selinux/config
```

Answer:

This file controls the state of SELinux on the system.

```
# SELINUX= can take one of these three values:
# enforcing - SELinux security policy is enforced.
# permissive - SELinux prints warnings instead of enforcing.
# disabled - No SELinux policy is loaded.
SELINUX=enforcing
# SELINUXTYPE= can take one of these two values:
# targeted - Targeted processes are protected,
# mls - Multi Level Security protection.
SELINUXTYPE=targeted
```

QUESTION NO: 3

Cronfigure Cron deny

```
[root@krishna ~]# yum install cron* -y
```

Answer:

```
Loaded plugins: fastestmirror, refresh-packagekit, security
Loading mirror speeds from cached hostfile
* base: centosmirror.go4hosting.in
* extras: mirrors.digipower.vn
* updates: centosmirror.go4hosting.in
Setting up Install Process
Package crontabs-1.10-33.el6.noarch already installed and latest version
Package cronie-anacron-1.4.4-7.el6.x86_64 already installed and latest version
Package cronie-1.4.4-7.el6.x86_64 already installed and latest version
Resolving Dependencies
```

Transaction Test Succeeded

Running Transaction

```
Installing : cronie-noanacron-1.4.4-7.el6.x86_64          1/1
Verifying  : cronie-noanacron-1.4.4-7.el6.x86_64          1/1
```

Installed:

```
cronie-noanacron.x86_64 0:1.4.4-7.el6
```

Complete!

```
[root@krishna ~]# vi /etc/cron.deny
[root@krishna ~]# cat /etc/cron.deny
```

Lason

```
root@krishna ~]# chkconfig crond on
[root@krishna ~]# service crond restart
Stopping crond:          [ OK ]
Starting crond:         [ OK ]
```

-Configure a cron access Lason should not be allowed to use cron
Note: This restriction must not affect any other user

QUESTION NO: 4

Configure Boot Parameter

-Modify your system ,so that when it boots the parameter.kernstack is set to value of [1].

```
[root@krishna ~]# cat /etc/grub.conf
```

Answer:

```
# grub.conf generated by anaconda
#
# Note that you do not have to rerun grub after making changes to this file
# NOTICE: You have a /boot partition. This means that
#          all kernel and initrd paths are relative to /boot/, eg.
#          root (hd0,0)
#          kernel /vmlinuz-version ro root=/dev/mapper/vg_krishna-lv_root
#          initrd /initrd-[generic-]version.img
#boot=/dev/sda
default=0
timeout=5
splashimage=(hd0,0)/grub/splash.xpm.gz
hiddenmenu
title CentOS (2.6.32-358.23.2.el6.x86_64)
    root (hd0,0)
    kernel /vmlinuz-2.6.32-358.23.2.el6.x86_64 ro root=/dev/mapper/vg_krishna-lv_root
rd_NO_LUKS rd_LVM_LV=vg_krishna/lv_swap rd_NO_MD SYSFONT=latacyrheb-sun16
crashkernel=auto KEYBOARDTYPE=pc KEYTABLE=us rd_LVM_LV=vg_krishna/lv_root
rd_NO_DM LANG=en_US.UTF-8 rhgb quiet
    initrd /initramfs-2.6.32-358.23.2.el6.x86_64.img
```

```
title CentOS (2.6.32-358.el6.x86_64)
    root (hd0,0)
    kernel /vmlinuz-2.6.32-358.el6.x86_64 ro root=/dev/mapper/vg_krishna-lv_root
rd_NO_LUKS rd_LVM_LV=vg_krishna/lv_swap rd_NO_MD SYSFONT=latacyrheb-sun16
crashkernel=auto KEYBOARDTYPE=pc KEYTABLE=us kernstack=1
rd_LVM_LV=vg_krishna/lv_root rd_NO_DM LANG=en_US.UTF-8 rhgb quiet
    initrd /initramfs-2.6.32-358.el6.x86_64.img
```

Note: your changes should be visible from /proc/cmdline.

```
[root@krishna ~]# cat /proc/cmdline
ro root=/dev/mapper/vg_krishna-lv_root rd_NO_LUKS rd_LVM_LV=vg_krishna/lv_swap
rd_NO_MD SYSFONT=latacyrheb-sun16 KEYBOARDTYPE=pc KEYTABLE=us
rd_LVM_LV=vg_krishna/lv_root rd_NO_DM LANG=en_US.UTF-8 rhgb quiet kernstack=1
```

QUESTION NO: 5

Mount An IMAGE FILE

```
[root@krishna ~]# mkdir /mnt/iso
```

-configure your system so that the filesystem image located in /root/test.iso is automatically mount on /mnt/container at system boot time

```
[root@krishna ~]# cat /etc/fstab
```

Answer:

```
#
# /etc/fstab
# Created by anaconda on Mon Dec 31 19:08:36 2001
#
# 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_krishna-lv_root / ext4 defaults 1 1
UUID=01300747-5655-408b-93d2-66c4ced493d6 /boot ext4 defaults 1 2
/dev/mapper/vg_krishna-lv_home /home ext4 defaults 1 2
/dev/mapper/vg_krishna-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/CentOS-6.4-x86_64-bin-DVD1.iso /mnt/iso iso9660 loop 0 0
```

```
[root@krishna ~]# mkdir /mnt/iso
```

```
[root@krishna ~]# mount -a
```

```
[root@krishna ~]# df -h
```

QUESTION NO: 6

Configure a FTP access

-Implement An FTP server for the following requirements.

(i)The FTP server allows anonymous file downloads from /var/ftp/pub

(ii)The clients outside the example.com should not have the anonymous FTP access in your machine

```
[root@krishna ~]# yum install vsftpd* -y
```

Answer:

Loaded plugins: fastestmirror, refresh-packagekit, security

Loading mirror speeds from cached hostfile

* base: centosmirror.go4hosting.in

* extras: mirrors.digipower.vn

* updates: centosmirror.go4hosting.in

Setting up Install Process

Resolving Dependencies

--> Running transaction check

---> Package ftp.x86_64 0:0.17-53.el6 will be installed

--> Finished Dependency Resolution

Transaction Test Succeeded

Running Transaction

Installing : vsftpd-0.17-53.el6.x86_64 1/1

Verifying : vsftpd-0.17-53.el6.x86_64 1/1

Installed: