

## Exam Questions EX200

EX200 Red Hat Certified System Administrator (RHCSA) Exam

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#### NEW QUESTION 1

Configure a cron Task.

User natasha must configure a cron job, local time 14:23 runs and executes: \*/bin/echo hiya every day.

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

```
crontab -e -u natasha 23 14/bin/echo hiya
crontab -l -u natasha // view systemctl enable crond systemctl restart crond
```

#### NEW QUESTION 2

Create a 512M partition, make it as ext4 file system, mounted automatically under /mnt/data and which take effect automatically at boot-start.

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

```
# fdisk /dev/vda
n
+512M
w
# partprobe /dev/vda
# mkfs -t ext4 /dev/vda5
# mkdir -p /data
# vim /etc/fstab
/dev/vda5 /data ext4 defaults 0 0
# mount -a
```

#### NEW QUESTION 3

Configure the FTP service in your system, allow remote access to anonymous login and download the program by this service. Service is still running after system rebooting.

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

```
yum install vsftpd
/etc/init.d/vsftpd start
chkconfig vsftpd on
```

#### NEW QUESTION 4

Configure your Host Name, IP Address, Gateway and DNS.

Host name: station.domain40.example.com

/etc/sysconfig/network

hostname=abc.com

hostname abc.com

IP Address:172.24.40.40/24

Gateway172.24.40.1

DNS:172.24.40.1

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

```
# cd /etc/sysconfig/network-scripts/
# ls
# vim ifcfg-eth0 (Configure IP Address, Gateway and DNS) IPADDR=172.24.40.40 GATEWAY=172.24.40.1
DNS1=172.24.40.1
# vim /etc/sysconfig/network
(Configure Host Name)
HOSTNAME= station.domain40.example.com
OR
Graphical Interfaces:
System->Preference->Network Connections (Configure IP Address, Gateway and DNS) Vim
/etc/sysconfig/network
(Configure Host Name)
```

#### NEW QUESTION 5

Who ever creates the files/directories on a data group owner should automatically be in the same group owner as data.

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

1. chmod g+s /data

2. Verify using: ls -ld /data

Permission should be like this: drwxrws--- 2 root sysadmin 4096 Mar 16 18:08 /data

If SGID bit is set on directory then who every users creates the files on directory group owner automatically the owner of parent directory. To set the SGID bit:

chmod g+s directory To Remove the SGID bit: chmod g-s directory

#### NEW QUESTION 6

You are a System administrator. Using Log files very easy to monitor the system. Now there are 50 servers running as Mail, Web, Proxy, DNS services etc. You want to centralize the logs from all servers into on LOG Server. How will you configure the LOG Server to accept logs from remote host?

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

By default, system accept the logs only generated from local host. To accept the Log from other host configure:

vi /etc/sysconfig/syslog SYSLOGD\_OPTIONS="-m 0 -r"

Where

-m 0 disables 'MARK' messages.

-r enables logging from remote machines

-x disables DNS lookups on messages received with -r  
service syslog restart

#### NEW QUESTION 7

Configure a default software repository for your system.

One YUM has already provided to configure your system on [http://server.domain11.example.com/pub/x86\\_64/Server](http://server.domain11.example.com/pub/x86_64/Server), and can be used normally.

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

Yum-config-manager

--add-repo=<http://content.example.com/rhel7.0/x86-64/dvd>" is to generate a file vim content.example.com\_rhel7.0\_x86\_64\_dvd.repo, Add a line gpgcheck=0

Yumcleanall

Yumrepolist

Almost 4305 packages are right, Wrong Yum Configuration will lead to some following questions cannot be worked out.

#### NEW QUESTION 8

According the following requirements to create user, user group and the group members:

- A group named admin.
  - A user named mary, and belong to admin as the secondary group.
  - A user named alice, and belong to admin as the secondary group.
  - A user named bobby, bobby's login shell should be non-interactive. Bobby not belong to admin as the secondary group.
- Mary, Alice, bobby users must be set "password" as the user's password.

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

see explanation below.

groupadd admin

useradd -G admin mary

useradd -G admin alice

useradd -s /sbin/nologin bobby

echo "password" | passwd --stdin mary

echo "password" | passwd --stdin alice

echo "password" | passwd --stdin bobby

#### NEW QUESTION 9

SIMULATION

Add an additional swap partition of 754 MB to your system.

The swap partition should automatically mount when your system boots.

Do not remove or otherwise alter any existing swap partitions on your system.

- A. Mastered

B. Not Mastered

**Answer:** A

**Explanation:**

```
fdisk -l
fdisk -cu /dev/vda
p n
e or p select e
default (first): enter
default (last): enter n
default(first): enter
default(first): +754M t (1-5)
1: 82 p
w #reboot
#mkswap /dev/vda5
vim /etc/fstab
/dev/vda5 swap swap defaults 0 0
wq
mount -a
swapon -a
swapon -s
```

#### NEW QUESTION 10

Create a logical volume

Create a new logical volume as required:

Name the logical volume as database, belongs to datastore of the volume group, size is 50 PE. Expansion size of each volume in volume group datastore is 16MB.

Use ext3 to format this new logical volume, this logical volume should automatically mount to /mnt/database

A. Mastered

B. Not Mastered

**Answer:** A

**Explanation:**

```
fdisk -cu /dev/vda// Create a 1G partition, modified when needed
partx -a /dev/vda
pvcreate /dev/vdax
vgcreate datastore /dev/vdax -s 16M
lvcreate- l 50 -n database datastore
mkfs.ext3 /dev/datastore/database
mkdir /mnt/database
mount /dev/datastore/database /mnt/database/ df -Th
vi /etc/fstab
/dev/datastore /database /mnt/database/ ext3 defaults 0 0 mount -a
Restart and check all the questions requirements.
```

#### NEW QUESTION 10

Configure the system synchronous as 172.24.40.10.

A. Mastered

B. Not Mastered

**Answer:** A

**Explanation:**

Graphical Interfaces:

System-->Administration-->Date & Time

OR

```
# system-config-date
```

#### NEW QUESTION 11

Configure iptables, there are two domains in the network, the address of local domain is 172.24.0.0/16 other domain is 172.25.0.0/16, now refuse domain 172.25.0.0/16 to access the server.

A. Mastered




B. Not Mastered

**Answer:** A

**Explanation:**

below

```
iptables -F
service iptables save
```

-  iptables -A INPUT -s 172.25.0.0/16 -j REJECT
-  service iptables save
-  service iptables restart

#### NEW QUESTION 15

According the following requirements, configure autofs service and automatically mount to user's home directory in the ldap domain.

- Instructor.example.com (192.168.0.254) has shared /home/guests/ldapuserX home directory to your system by over NFS export, X is your hostname number.
- LdapuserX's home directory is exist in the instructor.example.com: /home/ guests/ldapuserX
- LdapuserX's home directory must be able to automatically mount to /home/ guests/ldapuserX in your system.
- Home directory have write permissions for the corresponding user.

However, you can log on to the ldapuser1 - ldapuser99 users after verification. But you can only get your corresponding ldapuser users. If your system's hostname is server1.example.com, you can only get ldapuser1's home directory.

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

- (1)find /etc -size 10k -exec cp {} /tmp/findfiles \;
- (2)find / -user lucy -exec cp -a {} /tmp/findfiles \;

Note: If find users and permissions, you need to use cp - a options, to keep file permissions and user attributes etc.

#### NEW QUESTION 18

Your System is configured in 192.168.0.0/24 Network and your nameserver is 192.168.0.254. Make successfully resolve to server1.example.com.

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

nameserver is specified in question,

1. Vi /etc/resolv.conf  
nameserver 192.168.0.254
2. host server1.example.com

#### NEW QUESTION 20

Create a Shared Directory.

Create a shared directory /home/admins, make it has the following characteristics:

/home/admins belongs to group adminuser

This directory can be read and written by members of group adminuser Any files created in /home/ admin, group automatically set as adminuser.

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

- mkdir /home/admins
- chgrp -R adminuser /home/admins
- chmodg+w /home/admins
- chmodg+s /home/admins

#### NEW QUESTION 25

Upgrading the kernel as 2.6.36.7.1, and configure the system to Start the default kernel, keep the old kernel available.

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

- # cat /etc/grub.conf
- # cd /boot
- # lftp it
- # get dr/dom/kernel-xxxx.rpm
- # rpm -ivh kernel-xxxx.rpm
- # vim /etc/grub.conf default=0

#### NEW QUESTION 26

Configure autofs to automount the home directories of LDAP users as follows: host.domain11.example.com NFS-exports /home to your system.

This filesystem contains a pre-configured home directory for the user ldapuser11 ldapuser11's home directory is host.domain11.example.com /rhome/ldapuser11

ldapuser11's home directory should be automounted locally beneath /rhome as /rhome/ldapuser11

Home directories must be writable by their users ldapuser11's password is 'password'.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
vim /etc/auto.master /rhome /etc/auto.misc
wq!
# vim /etc/auto.misc
ldapuser11 --rw,sync host.domain11.example.com:/rhome/ldpauser11 :wq!
#service autofs restart
service autofs reload
chkconfig autofs on
su -ldapuser11
Login ldapuser with home directory
# exit
```

**NEW QUESTION 30**

Create a volume group, and set 16M as a extends. And divided a volume group containing 50 extends on volume group lv, make it as ext4 file system, and mounted automatically under /mnt/data.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
# pvcreate /dev/sda7 /dev/sda8
# vgcreate -s 16M vg1 /dev/sda7 /dev/sda8
# lvcreate -l 50 -n lvm02
# mkfs.ext4 /dev/vg1/lvm02
# blkid /dev/vg1/lv1
# vim /etc/fstab
# mkdir -p /mnt/data
UUID=xxxxxxx /mnt/data ext4 defaults 0 0
# vim /etc/fstab
# mount -a
# mount
(Verify)
```

**NEW QUESTION 35**

Create a 2G swap partition which take effect automatically at boot-start, and it should not affect the original swap partition.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
# fdisk /dev/sda
p
(check Partition table)
n
(create new partition: press e to create extended partition, press p to create the main partition, and the extended partition is further divided into logical partitions)
Enter
+2G
t
l
W
partx -a /dev/sda
partprobe
mkswap /dev/sda8
Copy UUID
swapon -a
vim /etc/fstab
UUID=XXXXX swap swap defaults 0 0
(swapon -s)
```

**NEW QUESTION 40**

Add a swap partition.

Adding an extra 500M swap partition to your system, this swap partition should mount automatically when the system starts up. Don't remove and modify the existing swap partitions on your system.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
fdisk -cu /dev/vda// in the way of expanding the partition, don't make main partition
partx -a /dev/vda
mkswap /dev/vdax
swapon /dev/vdax
swapon -s
vi /etc/fstab
/dev/vdaxswapswapdefaults0 0
mount -a
```

**NEW QUESTION 42**

Resize the logical volume vo and its filesystem to 290 MB. Make sure that the filesystem contents remain intact.

Note: Partitions are seldom exactly the same size requested, so a size within the range of 260 MB to 320 MiB is acceptable.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
df -hT
lvextend -L +100M /dev/vg0/vo
lvscan
xfs_growfs /home/ // home is LVM mounted directory
Note: This step is only need to do in our practice environment, you do not need to do in the real exam
resize2fs /dev/vg0/vo // Use this comand to update in the real exam
df -hT
OR
e2fsck -f/dev/vg0/vo
umount /home
resize2fs /dev/vg0/vo required partition capacity such as 100M
lvreduce -l 100M /dev/vg0/vo mount
/dev/vg0/vo /home
df -Ht
```

**NEW QUESTION 43**

Configure the permissions of /var/tmp/fstab

Copy the file /etc/fstab to /var/tmp/fstab. Configure the permissions of /var/tmp/fstab so that:

- the file /var/tmp/fstab is owned by the root user.
- the file /var/tmp/fstab belongs to the group root.
- the file /var/tmp/fstab should not be executable by anyone.
- the user natasha is able to read and write /var/tmp/fstab.
- the user harry can neither write nor read /var/tmp/fstab.
- all other users (current or future) have the ability to read /var/tmp/fstab.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
cp -a /etc/fstab /var/tmp
cd /var/tmp
ls -l
getfacl /var/tmp/fstab
chmod ugo-x /var/tmp/fstab
[ No need to do this, there won't be execute permission for the file by default]
# setfacl -m u:natasha:rw /var/tmp/fstab # setfacl -m u:harry:0 /var/tmp/fstab(zero)
[Read permission will be there for all the users, by default. Check it using ls -l /var/tmp/fstab] Verify by [ ls -la /var/tmp/fstab]
```

**NEW QUESTION 44**

One Logical Volume named /dev/test0/testvolume1 is created. The initial Size of that disk is 100MB now you required more 200MB. Increase the size of Logical Volume, size should be increase on online.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
lvextend -L+200M /dev/test0/testvolume1 Use lvdisplay /dev/test0/testvolume1
ext2online -d /dev/test0/testvolume1
lvextend command is used the increase the size of Logical Volume. Other command lvresize command also here to resize. And to bring increased size on online we use the ext2online command.
```

**NEW QUESTION 49**

One Logical Volume is created named as myvol under vo volume group and is mounted. The Initial Size of that Logical Volume is 400MB. Make successfully that

the size of Logical Volume 200MB without losing any data. The size of logical volume 200MB to 210MB will be acceptable.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

- ▶ First check the size of Logical Volume: `lvdisplay /dev/vol/myvol`
- ▶ Make sure that the filesystem is in a consistent state before reducing:  
`# fsck -f /dev/vol/myvol`
- ▶ Now reduce the filesystem by 200MB.  
`# resize2fs /dev/vol/myvol 200M`
- ▶ It is now possible to reduce the logical volume. `#lvreduce /dev/vol/myvol -L 200M`
- ▶ Verify the Size of Logical Volume: `lvdisplay /dev/vol/myvol`
- ▶ Verify that the size comes in online or not: `df -h`

**NEW QUESTION 54**

Your System is going use as a router for 172.24.0.0/16 and 172.25.0.0/16. Enable the IP Forwarding.

1. `echo "1" >/proc/sys/net/ipv4/ip_forward`
2. `vi /etc/sysctl.conf net.ipv4.ip_forward=1`

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

`/proc` is the virtual filesystem, containing the information about the running kernel.

To change the parameter of running kernel you should modify on `/proc`. From Next reboot the system, kernel will take the value from `/etc/sysctl.conf`.

**NEW QUESTION 57**

Create a user alex with a userid of 3400. The password for this user should be redhat.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

- ▶ `useradd -u 3400 alex`
- ▶ `passwd alex`
- ▶ `su -alex`

**NEW QUESTION 58**

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