

## Exam Questions EX200

EX200 Red Hat Certified System Administrator (RHCSA) Exam

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#### NEW QUESTION 1

Create the user named eric and deny to interactive login.

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

-  useradd eric
-  passwd eric
-  vi /etc/passwd
-  eric:x:505:505::/home/eric:/sbin/nologin

Which shell or program should start at login time is specified in /etc/passwd file? By default, Redhat Enterprise Linux assigns the /bin/bash shell to the users. To deny the interactive login, you should write /sbin/nologin or /bin/ false instead of login shell.

#### NEW QUESTION 2

Configure the verification mode of your host account and the password as LDAP. And it can login successfully through ldapuser40. The password is set as "password".

And the certificate can be downloaded from <http://ip/dir/ldap.crt>. After the user logs on the user has no host directory unless you configure the autofs in the following questions.

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

```
system-config-authentication
LDAP Server: ldap//instructor.example.com (In domain form, not write IP)
OR
# yum groupinstall directory-client (1.krb5-workstation 2.pam-krb5 3.sssd)
# system-config-authentication
1.User Account Database: LDAP
2. LDAP Search Base DN: dc=example,dc=com
3. LDAP Server: ldap://instructor.example.com (In domain form, not write IP)
4. Download CA Certificate
5. Authentication Method: LDAP password
6. Apply
getent passwd ldapuser40
```



#### NEW QUESTION 3

Your System is going to use as a Router for two networks. One Network is 192.168.0.0/24 and Another Network is 192.168.1.0/24. Both network's IP address has assigned. How will you forward the packets from one network to another network?

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

-  echo "1" >/proc/sys/net/ipv4/ip\_forward
-  vi /etc/sysctl.conf

```
net.ipv4.ip_forward = 1
```

If you want to use the Linux System as a Router to make communication between different networks, you need enable the IP forwarding. To enable on running session just set value 1 to /proc/sys/net/ipv4/ip\_forward. As well as automatically turn on the IP forwarding features on next boot set on /etc/sysctl.conf file.

#### 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**

A YUM repository has been provided at [http://server.domain11.example.com/pub/x86\\_64/Server](http://server.domain11.example.com/pub/x86_64/Server). Configure your system to use this location as a default repository.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
vim/etc/yum.repos/base.repo
[base]
name=base
baseurl= http://server.domain11.example.com/pub/x86_64/Server
gpgcheck=0
enable=1
Save and Exit
Use yum list for validation, the configuration is correct if list the package information. If the Yum configuration is not correct then maybe cannot answer the following questions.
```

**NEW QUESTION 6**

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 7**

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 8**

Configure NTP.  
Configure NTP service, Synchronize the server time, NTP server: [classroom.example.com](http://classroom.example.com)

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

Configure the client:  
Yum -y install chrony  
Vim /etc/chrony.conf  
Add: server classroom.example.com iburst  
Start: systemctl enable chronyd  
systemctl restart chronyd  
Validate: timedatectl status

#### 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

Find the rows that contain abcde from file /etc/testfile, and write it to the file/tmp/testfile, and the sequence is requested as the same as /etc/testfile.

- A. Mastered
- B. Not Mastered

**Answer:** A

##### Explanation:

```
# cat /etc/testfile | while read line;
do
echo $line | grep abcde | tee -a /tmp/testfile
done
OR
grep `abcde` /etc/testfile > /tmp/testfile
```

#### 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 13

The user authentication has been provided by ldap domain in 192.168.0.254. According the following requirements to get ldapuser.  
 -LdapuserX must be able to login your system, X is your hostname number. But the ldapuser's home directory cannot be mounted, until you realize automatically mount by autofs server.  
 - All ldap user's password is "password".

- A. Mastered
- B. Not Mastered

Answer: A

### Explanation:

system-config-authentication &



### NEW QUESTION 17

Make on data that only the user owner and group owner member can fully access.

- A. Mastered
- B. Not Mastered

Answer: A

### Explanation:

▶ chmod 770 /data  
 ▶ Verify using : ls -ld /data Preview should be like: drwxrwx--- 2 root sysadmin 4096 Mar 16 18:08 /data  
 To change the permission on directory we use the chmod command.  
 According to the question that only the owner user (root) and group member (sysadmin) can fully access the directory so: chmod 770 /data

### NEW QUESTION 21

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 24**

Notes:

NFS NFS instructor.example.com:/var/ftp/pub/rhel6/dvd

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

YUM

<http://instructor.example.com/pub/rhel6/dvd>

ldap <http://instructor.example.com/pub/EXAMPLE-CA-CERT> Install dialog package.

yum install dialog


**NEW QUESTION 29**

You have a domain named www.rhce.com associated IP address is 192.100.0.2. Configure the Apache web server by implementing the SSL for encryption communication.


- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

 vi /etc/httpd/conf.d/ssl.conf <VirtualHost 192.100.0.2> ServerName www.rhce.com DocumentRoot /var/www/rhce DirectoryIndex index.html index.htm ServerAdmin webmaster@rhce.com SSLEngine on SSLCertificateFile /etc/httpd/conf/ssl.crt/server.crt SSLCertificateKeyFile /etc/httpd/conf/ssl.key/server.key </VirtualHost>

 cd /etc/httpd/conf 3 make testcert

 Create the directory and index page on specified path. (Index page can download from <ftp://server1.example.com> at exam time)


 service httpd start|restart

 chkconfig httpd on


Apache can provide encrypted communications using SSL (Secure Socket Layer). To make use of encrypted communication, a client must request to https protocol, which is uses port 443. For HTTPS protocol required the certificate file and key file.

**NEW QUESTION 34**

According the following requirements to create a local directory /common/admin.

 This directory has admin group.

 This directory has read, write and execute permissions for all admin group members.

 Other groups and users don't have any permissions.

 All the documents or directories created in the/common/admin are automatically inherit the admin group.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

mkdir -p /common/admin

chgrp admin /common/admin

chmod 2770 /common/admin

**NEW QUESTION 38**

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 40**

Configure a task: plan to run echo hello command at 14:23 every day.

- A. Mastered
- B. Not Mastered



**Answer:** A

**Explanation:**

```
# which echo
# crontab -e
23 14 * * * /bin/echo hello
# crontab -l (Verify)
```

**NEW QUESTION 41**

Update the kernel from ftp://instructor.example.com/pub/updates. According the following requirements:

-  The updated kernel must exist as default kernel after rebooting the system.
-  The original kernel still exists and is available in the system.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
rpm -ivh kernel-firm...
rpm -ivh kernel...
```


**NEW QUESTION 45**

A YUM source has been provided in the http://instructor.example.com/pub/rhel6/dvd  
Configure your system and can be used normally.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
 /etc/yum.repos.d/base.repo
[base]
name=base
baseurl=http://instructor.example.com/pub/rhel6/dvd
gpgcheck=0
yum list
```

**NEW QUESTION 50**

Configure a task: plan to run echo "file" command at 14:23 every day.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
(a) Created as administrator
# crontab -u natasha -e
23 14 * * * /bin/echo "file"
(b)Created as natasha
# su - natasha
$ crontab -e
23 14 * * * /bin/echo "file"
```

**NEW QUESTION 54**

In the system, mounted the iso image /root/examine.iso to/mnt/iso directory. And enable automatically mount (permanent mount) after restart system.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
mkdir -p /mnt/iso
/etc/fstab:
/root/examine.iso /mnt/iso iso9660 loop 0 0 mount -a
mount | grep examine
```

**NEW QUESTION 59**

Locate all the files owned by ira and copy them to the / root/findresults directory.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
# find / -user ira > /root/findresults (if /root/findfiles is a file)
# mkdir -p /root/findresults
# find / -user ira -exec cp -a {} /root/findresults\; [ if /root/findfiles is a directory] ls /root/findresults
```

**NEW QUESTION 60**

Download ftp://192.168.0.254/pub/boot.iso to /root, and mounted automatically under /media/cdrom and which take effect automatically at boot-start.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
# cd /root; wget ftp://192.168.0.254/pub/boot.iso
# mkdir -p /media/cdrom
# vim /etc/fstab
/root/boot.iso /media/cdrom iso9660 defaults,loop 0 0
# mount -a
mount [-t vfstype] [-o options] device dir
```

**NEW QUESTION 61**

Search files.  
Find out files owned by jack, and copy them to directory /root/findresults

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

```
mkdir/root/findfiles
find / -user jack -exec cp -a {} /root/findfiles/ \; ls /root/findresults
```

**NEW QUESTION 66**

Make a swap partition having 100MB. Make Automatically Usable at System Boot Time.

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

see explanation below.

- ▶ Use fdisk /dev/hda ->To create new partition.
- ▶ Type n-> For New partition
- ▶ It will ask for Logical or Primary Partitions. Press l for logical.
- ▶ It will ask for the Starting Cylinder: Use the Default by pressing Enter Key.
- ▶ Type the Size: +100M ->You can Specify either Last cylinder of Size here.
- ▶ Press P to verify the partitions lists and remember the partitions name. Default System ID is 83 that means Linux Native.
- ▶ Type t to change the System ID of partition.
- ▶ Type Partition Number
- ▶

Type 82 that means Linux Swap.

- ▶ Press w to write on partitions table.
- ▶ Either Reboot or use partprobe command.
- ▶ mkswap /dev/hda? ->To create Swap File system on partition.
- ▶ swapon /dev/hda? ->To enable the Swap space from partition.
- ▶ free -m ->Verify Either Swap is enabled or not.
- ▶ vi /etc/fstab/dev/hda? swap swap defaults 0 0
- ▶ Reboot the System and verify that swap is automatically enabled or not.

#### NEW QUESTION 68

Create a collaborative directory/home/admins with the following characteristics: Group ownership of /home/admins is adminuser  
The directory should be readable, writable, and accessible to members of adminuser, but not to any other user. (It is understood that root has access to all files and directories on the system.)  
Files created in /home/admins automatically have group ownership set to the adminuser group

- 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 73

Binding to an external validation server.  
System server.domain11.example.com provides a LDAP validation service, your system should bind to this service as required:  
Base DN of validation service is dc=example,dc=com  
LDAP is used for providing account information and validation information Connecting and using the certification of  
<http://server.domain11.example.com/pub/EXAMPLE-CA-CERT> to encrypt  
After the correct configuration, ldapuser1 can log into your system, it does not have HOME directory until you finish autofs questions, ldapuser1 password is password.

- A. Mastered
- B. Not Mastered

**Answer:** A

#### Explanation:

```
yum -y install sssd authconfig-gtk krb5-workstation authconfig-gtk // open the graphical interface
Modify user account database to ldap, fill up DN and LDAP SERVER as questions required, use TLS to encrypt connections making tick, write
http://server.domain11.example.com/pub/EXAMPLE-CA-CERT to download ca, authentication method choose ldap password.
You can test if the ldapuser is added by the following command:
Id ldapuser1
Note: user password doesn't not need to set
```

#### NEW QUESTION 75

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 80

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