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## Exam A

### QUESTION 1 SIMULATION

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

**Answer:** See explanation below.

#### Explanation

##### Explanation/Reference:

```
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)

### QUESTION 2 SIMULATION

Add 3 users: harry, natasha, tom.

The requirements: The Additional group of the two users: harry, Natasha is the admin group. The user: tom's login shell should be non-interactive.

**Answer:** See explanation below.

#### Explanation

##### Explanation/Reference:

```
Explanation: # useradd -G admin harry  
# useradd -G admin natasha  
# useradd -s /sbin/nologin tom  
# id harry;id Natasha (Show additional group)  
# cat /etc/passwd  
(Show the login shell)
```

OR

```
# system-config-users
```

### QUESTION 3

#### SIMULATION

Create a catalog under /home named admins. Its respective group is requested to be the admin group. The group users could read and write, while other users are not allowed to access it. The files created by users from the same group should also be the admin group.

**Answer:** See explanation below.

#### Explanation

##### Explanation/Reference:

```
Explanation: # cd /home/  
# mkdir admins /  
# chown .admin admins/  
# chmod 770 admins/  
# chmod g+s admins/
```

### QUESTION 4

#### SIMULATION

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

**Answer:** See explanation below.

#### Explanation

##### Explanation/Reference:

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

### QUESTION 5

#### SIMULATION

Find the files owned by harry, and copy it to catalog: /opt/dir

**Answer:** See explanation below.

#### Explanation

##### Explanation/Reference:

```
Explanation: # cd /opt/  
# mkdir dir  
# find / -user harry -exec cp -rfp {} /opt/dir/ \;
```

### QUESTION 6

#### SIMULATION

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.

**Answer:** See explanation below.

#### Explanation

##### Explanation/Reference:

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

OR

```
grep `abcde` /etc/testfile > /tmp/testfile
```

### QUESTION 7 SIMULATION

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

**Answer:** See explanation below.

#### Explanation

##### Explanation/Reference:

```
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)
```

### QUESTION 8 SIMULATION

Create a user named alex, and the user id should be 1234, and the password should be alex111.

**Answer:** See explanation below.

#### Explanation

##### Explanation/Reference:

```
Explanation: # useradd -u 1234 alex
```

```
# passwd alex
```

```
alex111
```

```
alex111
```

OR

```
echo alex111|passwd -stdin alex
```

## QUESTION 9

### SIMULATION

Install a FTP server, and request to anonymous download from /var/ftp/pub catalog. (it needs you to configure yum direct to the already existing file server.)

**Answer:** See explanation below.

### Explanation

#### Explanation/Reference:

```
Explanation: # cd /etc/yum.repos.d
# vim local.repo
[local]
name=local.repo

baseurl=file:///mnt
enabled=1
gpgcheck=0

# yum makecache
# yum install -y vsftpd
# service vsftpd restart
# chkconfig vsftpd on
# chkconfig --list vsftpd
# vim /etc/vsftpd/vsftpd.conf
anonymous_enable=YES
```

## QUESTION 10

### SIMULATION

Configure a HTTP server, which can be accessed through <http://station.domain40.example.com>. Please download the released page from <http://ip/dir/example.html>.

**Answer:** See explanation below.

### Explanation

#### Explanation/Reference:

```
Explanation: # yum install -y httpd
# chkconfig httpd on
# cd /var/www/html
# wget http://ip/dir/example.html
# cp example.com index.html
# vim /etc/httpd/conf/httpd.conf
NameVirtualHost 192.168.0.254:80
<VirtualHost 192.168.0.254:80>
DocumentRoot /var/www/html/
ServerName station.domain40.example.com
</VirtualHost>
```

## QUESTION 11

### SIMULATION

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.

**Answer:** See explanation below.

### Explanation

#### Explanation/Reference:

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

### QUESTION 12

#### SIMULATION

Configure autofs to make sure after login successfully, it has the home directory autofs, which is shared as /rhome/ldapuser40 at the ip: 172.24.40.10. and it also requires that, other ldap users can use the home directory normally.

**Answer:** See explanation below.

### Explanation

#### Explanation/Reference:

Explanation: # chkconfig autofs on

```
# cd /etc/
```

```
# vim /etc/auto.master
```

```
/rhome /etc/auto.ldap
```

```
# cp auto.misc auto.ldap
```

```
# vim auto.ldap
```

```
ldapuser40 -rw,soft,intr 172.24.40.10:/rhome/ldapuser40
```

```
* -rw,soft,intr 172.16.40.10:/rhome/&
```

```
# service autofs stop
```

```
# server autofs start
```

```
# showmount -e 172.24.40.10
```

```
# su - ldapuser40
```

### QUESTION 13

#### SIMULATION

Configure the system synchronous as 172.24.40.10.

**Answer:** See explanation below.

### Explanation

#### Explanation/Reference:

Explanation: Graphical Interfaces:

System-->Administration-->Date & Time

OR

# system-config-date

#### QUESTION 14

##### SIMULATION

Change the logical volume capacity named vo from 190M to 300M. and the size of the floating range should set between 280 and 320. (This logical volume has been mounted in advance.)

**Answer:** See explanation below.

##### Explanation

###### Explanation/Reference:

Explanation: # vgdisplay

(Check the capacity of vg, if the capacity is not enough, need to create pv , vgextend , lvextend)

# lvdisplay (Check lv)

# lvextend -L +110M /dev/vg2/lv2

# resize2fs /dev/vg2/lv2

mount -a

(Verify)

-----  
(Decrease lvm)

# umount /media

# fsck -f /dev/vg2/lv2

# resize2fs -f /dev/vg2/lv2 100M

# lvreduce -L 100M /dev/vg2/lv2

# mount -a

# lvdisplay (Verify)

OR

# e2fsck -f /dev/vg1/lvm02

# resize2fs -f /dev/vg1/lvm02

# mount /dev/vg1/lvm01 /mnt

# lvreduce -L 1G -n /dev/vg1/lvm02

# lvdisplay (Verify)

#### QUESTION 15

##### SIMULATION

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.

**Answer:** See explanation below.

##### Explanation

###### Explanation/Reference:

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=xxxxxxxx /mnt/data ext4 defaults 0 0

```
# vim /etc/fstab
```

```
# mount -a  
# mount  
(Verify)
```

#### **QUESTION 16** **SIMULATION**

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

**Answer:** See explanation below.

#### **Explanation**

##### **Explanation/Reference:**

```
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
```

#### **QUESTION 17** **SIMULATION**

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

**Answer:** See explanation below.

#### **Explanation**

##### **Explanation/Reference:**

```
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
```

#### **QUESTION 18** **SIMULATION**

Create a volume group, and set 8M as a extends. Divided a volume group containing 50 extends on volume group lv (lvshare), make it as ext4 file system, and mounted automatically under /mnt/data. And the size of the floating range should set between 380M and 400M.

**Answer:** See explanation below.

#### **Explanation**

##### **Explanation/Reference:**



```
Explanation: # fdisk
# partprobe
# pvcreate /dev/vda6
# vgcreate -s 8M vg1 /dev/vda6 -s
# lvcreate -n lvshare -l 50 vg1 -l
# mkfs.ext4 /dev/vg1/lvshare
# mkdir -p /mnt/data
# vim /etc/fstab
/dev/vg1/lvshare /mnt/data ext4 defaults 0 0
# mount -a
# df -h
```

### QUESTION 19

#### SIMULATION

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.

**Answer:** See explanation below.

#### Explanation

##### Explanation/Reference:

```
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
```

### QUESTION 20

#### SIMULATION

Add admin group and set gid=600

**Answer:** See explanation below.

#### Explanation

##### Explanation/Reference:

```
Explanation: # groupadd -g 600 admin
```

### QUESTION 21

#### SIMULATION

Add user: user1, set uid=601

Password: redhat

The user's login shell should be non-interactive.

**Answer:** See explanation below.

#### Explanation

##### Explanation/Reference:

```
Explanation: # useradd -u 601 -s /sbin/nologin user1
# passwd user1
redhat
```

### QUESTION 22

## SIMULATION

Add users: user2, user3.

The Additional group of the two users: user2, user3 is the admin group Password: redhat

**Answer:** See explanation below.

### Explanation

#### Explanation/Reference:

```
Explanation: # useradd -G admin user2
# useradd -G admin user3
# passwd user2
redhat
# passwd user3
redhat
```

## QUESTION 23

### SIMULATION

Copy /etc/fstab to /var/tmp name admin, the user1 could read, write and modify it, while user2 without any permission.

**Answer:** See explanation below.

### Explanation

#### Explanation/Reference:

```
Explanation: # cp /etc/fstab /var/tmp/
# chgrp admin /var/tmp/fstab
# setfacl -m u:user1:rwX /var/tmp/fstab
# setfacl -m u:user2:--- /var/tmp/fstab
# ls -l
-rw-rw-r--+ 1 root admin 685 Nov 10 15:29 /var/tmp/fstab
```

## QUESTION 24

### SIMULATION

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

**Answer:** See explanation below.

### Explanation

#### Explanation/Reference:

```
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"
```

## QUESTION 25

### SIMULATION

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/](http://server.domain11.example.com/pub/x86_64/)

Server, and can be used normally.

**Answer:** See explanation below.

### Explanation

#### Explanation/Reference:

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.

### QUESTION 26 SIMULATION

Adjust the size of the Logical Volume.

Adjust the size of the vo Logical Volume, its file system size should be 290M. Make sure that the content of this system is complete.

Note: the partition size is rarely accurate to the same size as required, so in the range 270M to 320M is acceptable.

**Answer:** See explanation below.

### Explanation

#### Explanation/Reference:

Explanation: Addition

```
df -hT
```

```
lvextend -L +100M /dev/vg0/vo
```

```
Lvscan
```

xfs\_growfs /home/ //home is the mounted directory of the LVM, this step just need to do in the practice environment, and test EXT4 does not need this step.

resize2fs /dev/vg0/vo// use this command to update in examination.

```
df -hT
```

OR

Subtraction

```
e2fsck -f/dev/vg0/vo
```

```
umount /home
```

resize2fs /dev/vg0/vo // the final required partition capacity is 100M lvreduce -l 100M /dev/vg0/vo

```
mount /dev/vg0/vo/home
```

```
df -hT
```

### QUESTION 27 SIMULATION

Create User Account.

Create the following user, group and group membership:

Adminuser group

User natasha, using adminuser as a sub group

User Harry, also using adminuser as a sub group

User sarah, can not access the SHELL which is interactive in the system, and is not a member of adminuser, natashaharrysarah password is redhat.

**Answer:** See explanation below.

### Explanation

#### Explanation/Reference:

Explanation: groupadd adminuser  
useradd natasha -G adminuser  
useradd haryy -G adminuser  
useradd sarah -s /sbin/nologin

Passwd user name // to modify password or echo redhat | passwd --stdin user name id natasha // to view user group.

### QUESTION 28

#### SIMULATION

Configure /var/tmp/fstab Permission.

Copy the file /etc/fstab to /var/tmp/fstab. Configure var/tmp/fstab permissions as the following:  
Owner of the file /var/tmp/fstab is Root, belongs to group root  
File /var/tmp/fstab cannot be executed by any user  
User natasha can read and write /var/tmp/fstab  
User harry cannot read and write /var/tmp/fstab  
All other users (present and future) can read var/tmp/fstab.

**Answer:** See explanation below.

### Explanation

#### Explanation/Reference:

Explanation: cp /etc/fstab /var/tmp/  
/var/tmp/fstab view the owner setfacl -m u:natasha:rw- /var/tmp/fstab setfacl -m u:haryy:--- /var/tmp/fstab

Use getfacl /var/tmp/fstab to view permissions

### QUESTION 29

#### SIMULATION

Configure a cron Task.

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

**Answer:** See explanation below.

### Explanation

#### Explanation/Reference:

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

### QUESTION 30

#### SIMULATION

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.

**Answer:** See explanation below.

#### **Explanation**

##### **Explanation/Reference:**

Explanation: mkdir /home/admins

chgrp -R adminuser /home/admins

chmodg+w /home/admins

chmodg+s /home/admins

#### **QUESTION 31**

##### **SIMULATION**

Install the Kernel Upgrade.

Install suitable kernel update from:

<http://server.domain11.example.com/pub/updates>.

Following requirements must be met:

Updated kernel used as the default kernel of system start-up.

The original kernel is still valid and can be guided when system starts up.

**Answer:** See explanation below.

#### **Explanation**

##### **Explanation/Reference:**

Explanation: Using the browser open the URL in the question, download kernel file to root or home directory.

uname -r// check the current kernel version

rpm -ivh kernel-\*.rpm

vi /boot/grub.conf// check

Some questions are: Install and upgrade the kernel as required. To ensure that grub2 is the default item for startup.

Yum repo : <http://content.example.com/rhel7.0/x86-64/errata>

OR

uname -r // check kernel

Yum-config-manager --add-repo="<http://content.example.com/rhel7.0/x86-64/errata>"

Yum clean all

Yum list kernel// install directly

Yum -y install kernel// stuck with it, do not pipe! Please do not pipe!

Default enable new kernel grub2-editenv list// check

Modify grub2-set-default "kernel full name"

Grub2-mkconfig -o/boot/grub2/grub.cfg// Refresh

#### **QUESTION 32**

##### **SIMULATION**

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.

**Answer:** See explanation below.

### **Explanation**

#### **Explanation/Reference:**

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 need to set

### **QUESTION 33**

#### **SIMULATION**

Configure NTP.

Configure NTP service, Synchronize the server time, NTP server: classroom.example.com

**Answer:** See explanation below.

### **Explanation**

#### **Explanation/Reference:**

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

### **QUESTION 34**

#### **SIMULATION**

Configure autofs.

Configure the autofs automatically mount to the home directory of LDAP, as required:

server.domain11.example.com use NFS to share the home to your system. This file system contains a pre

configured home directory of user ldapuserX.

Home directory of ldapuserX is:

server.domain11.example.com /home/guests/ldapuser