

EX200^{Q&As}

Red Hat Certified System Administrator - RHCSA

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QUESTION 1

According to 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.

Correct Answer: Check the answer in explanation.

```
mkdir -p /common/admin chgrp admin /common/admin chmod 2770 /common/admin
```

QUESTION 2

Part 2 (on Node2 Server)

Task 7 [Implementing Advanced Storage Features]

Create a thin-provisioned filesystem with the name think_fs from a pool think_pool using the devices.

The filesystem should be mounted on /strav and must be persistent across reboot

Correct Answer: Check the answer in explanation.

```
* [root@node2 ~]# lsblk NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT vdd 252:48 0 5G 0 disk vde 252:64 0 10G 0 disk vdo1 253:4 0 50G 0 vdo /vbreed [root@node2 ~]# yum install stratis* -y [root@node2 ~]# systemctl enable --now stratisd.service [root@node2 ~]# systemctl start stratisd.service [root@node2 ~]# systemctl status stratisd.service [root@node2 ~]# stratis pool create think_pool /dev/vdd [root@node2 ~]# stratis pool list Name Total Physical Properties think_pool 5 GiB / 37.63 MiB / 4.96 GiB ~Ca,~Cr
```

```
* [root@node2 ~]# stratis filesystem create think_pool think_fs [root@node2 ~]# stratis filesystem list Pool Name Name Used Created Device UUID think_pool think_fs 546 MiB Mar 23 2021 08:21 /stratis/think_pool/think_fs ade6fdaab06449109540c2f3fdb9417d [root@node2 ~]# mkdir /strav [root@node2 ~]# lsblk [root@node2 ~]# blkid /dev/mapper/stratis-1-91ab9faf36a540f49923321ba1c5e40d-thin-fs- ade6fdaab06449109540c2f3fdb9417d: UUID="ade6fdaa-b064-4910-9540-c2f3fdb9417d" BLOCK_SIZE="512" TYPE="xfs"
```

```
* [root@node2 ~]# vim /etc/fstab UUID=ade6fdaa-b064-4910-9540-c2f3fdb9417d /strav xfs defaults,x-systemd.requires=stratisd.service 0 0 [root@node2 ~]# mount /stratis/think_pool/think_fs /strav/ [root@node2 ~]# df -hT /dev/mapper/stratis-1-91ab9faf36a540f49923321ba1c5e40d-thin-fs- ade6fdaab06449109540c2f3fdb9417d xfs 1.0T 7.2G 1017G 1% /strav
```

QUESTION 3

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.

Correct Answer: Check the anser in 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 4

Part 1 (on Node1 Server)

Task 8 [Managing Local Users and Groups]

Create a user fred with a user ID 3945. Give the password as iamredhatman

Correct Answer: Check the anser in explanation.

```
* [root@node1 ~]# useradd -u 3945 fred [root@node1 ~]# echo "iamredhatman" | passwd --stdin fred Changing password for user fred. passwd: all authentication tokens updated successfully
```

QUESTION 5

You are new System Administrator and from now you are going to handle the system and your main task is Network monitoring, Backup and Restore. But you don't know the root password. Change the root password to redhat and login in default Runlevel.

Correct Answer: Check the anser in explanation.

When you Boot the System, it starts on default Runlevel specified in /etc/inittab:

Id?:initdefault:

When System Successfully boot, it will ask for username and password. But you don't know the root's password. To change the root password you need to boot the system into single user mode. You can pass the kernel arguments from the

boot loader.

1.

Restart the System.

2.

You will get the boot loader GRUB screen.

3.

Press a and type 1 or s for single mode ro root=LABEL=/ rhgb quiet s

4.

System will boot on Single User mode.

5.

Use passwd command to change.

6.

Press ctrl+d

QUESTION 6

Create a backup

Create a backup file named /root/backup.tar.bz2, contains the content of /usr/local, tar must use bzip2 to compress.

Correct Answer: Check the answer in explanation.

```
cd /usr/local tar -jcvf /root/backup.tar.bz2
```

mkdir /test tar -jxvf /root/backup.tar.bz2 -C /test// Decompression to check the content is the same as the /usr/local after
If the questions require to use gzip to compress. change -j to -z.

QUESTION 7

SELinux must run in force mode.

Correct Answer: Check the answer in explanation.

```
/etc/sysconfig/selinux SELINUX=enforcing
```

QUESTION 8

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.

Correct Answer: Check the answer in 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 9

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.

Correct Answer: Check the answer in explanation.

```
vi /etc/httpd/conf.d/ssl.conf 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
```

```
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.

QUESTION 10

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

Correct Answer: Check the anser in 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 11

Notes:

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

Correct Answer: Check the anser in explanation.

YUM http://instructor.example.com/pub/rhel6/dvd ldap http://instructor.example.com/pub/EXAMPLE-CA-CERT Install dialog package. yum install dialog

QUESTION 12

Download the document from ftp://instructor.example.com/pub/testfile, find all lines containing [abcde] and redirect to /MNT/answer document, then rearrange the order according the original content.

Correct Answer: Check the anser in explanation.

```
Download the file to /tmp first grep [abcde] /tmp/testfile > /mnt/answer
```

QUESTION 13

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.

Correct Answer: Check the anser in 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/and # service autofs stop #  
server autofs start # showmount -e 172.24.40.10 # su - ldapuser40
```

QUESTION 14

Configure

your web services, download from <http://instructor.example.com/pub/serverX.html> And the services must be still running after system rebooting.

Correct Answer: Check the answer in explanation.

```
cd /var/www/html wget http://instructor.example.com/pub/serverX.html mv serverX.html index.html /etc/init.d/httpd  
restart chkconfig httpd on
```

QUESTION 15

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

Correct Answer: Check the answer in explanation.

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

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