EX200.exam

Number: EX200
Passing Score: 800
Time Limit: 120 min
File Version: 1

EX200

Red Hat Certified System Administrator -RHCSA



Exam A

QUESTION 1

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.

Correct Answer: See explanation below.

Section: (none) 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 2

SIMULATION

Configure a cron Task.

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

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation: crontab –e –u natasha 23 14/bin/echo hiya crontab -l -u natasha // view systemctlenable crond systemcdlrestart crond

QUESTION 3

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.

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

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

QUESTION 4

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.

Correct Answer: See explanation below.

Section: (none) 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 5

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, Idapuser1 can log into your system, it does not have HOME directory until you finish autofs questions, Idapuser1 password is password.

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation: yum -y install sssd authconfig-gtk krb5-workstation authconfig-gtk // open the graphical interface

Modify user account database to Idap, fill up DN and LDAP SERVER as questions required, use TLS to encrypt connections making tick, write http://

https://www.gratisexam.com/

server.domain11.example.com/pub/EXAMPLE-CA-CERT to download ca, authentication method choose ldap password. You can test if the Idapuser is added by the following command:

Id Idapuser1

Note: user password doesn't not need to set

QUESTION 6

SIMULATION

Configure NTP.

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

Correct Answer: See explanation below.

Section: (none) 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 7

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 IdapuserX. Home directory of IdapuserX is:

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

Home directory of IdapuserX should automatically mount to the IdapuserX of the local /home/guests Home directory's write permissions must be available for users

Idapuser1's password is password

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation: yum install -y autofs mkdir /home/rehome /etc/auto.master /home/rehome/etc/auto.ldap

Keep then exit

cp /etc/auto.misc /etc/auto.ldap /etc/auto.ldap ldapuserX -fstype=nfs,rw server.domain11.example.com:/home/guests/

Keep then exit

systemctl start autofs systemctl enable autofs su - ldapuserX// test

If the above solutions cannot create files or the command prompt is -bash-4.2\$, it maybe exist multi-level directory, this needs to change the server.domain11.example.com:/home/guests/ldapuserX. What is multi-level directory? It means there is a directory of ldapuserX under the /home/guests/ldapuserX in the questions. This directory is the real directory.

QUESTION 8

SIMULATION

Configure a user account.

Create a user iar, uid is 3400. Password is redhat

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation: useradd -u 3400 iar

passwd iar

QUESTION 9

SIMULATION

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.

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

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

QUESTION 10

SIMULATION

Search files.

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

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation: mkdir/root/findfiles

find / -user jack -exec cp -a {} /root/findfiles/ \; Is /root/findresults

QUESTION 11

SIMULATION

Search a String

Find out all the columns that contains the string seismic within /usr/share/dict/words, then copy all these columns to /root/lines.tx in original order, there is no blank line, all columns must be the accurate copy of the original columns.

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation: grep seismic /usr/share/dict/words > /root/lines.txt

QUESTION 12 SIMULATION

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: See explanation below.

Section: (none) Explanation

Explanation/Reference:

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/loca after

If the questions require to use gzip to compress. change –j to –z.

QUESTION 13

SIMULATION

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

https://www.gratisexam.com/

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

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.

QUESTION 14

SIMULATION

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

Host name: dtop5.dn.ws.com IP Address: 172.28.10.5/4 Gateway: 172.28.10.1 DNS: 172.28.10.1

Correct Answer: See explanation below.

Section: (none) Explanation

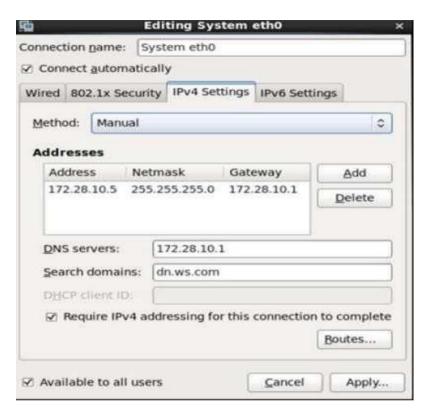
Explanation/Reference:

Explanation:

1. Configure Host Name

vim /etc/sysconfig/network NETWORKING=yes HOSTNAME=dtop5.dn.ws.com GATEWAY=172.28.10.1

2. Configure IP Address, Gateway and DNS Configure the network by Network Manager:



Note: Please remember to choose two options:

Connect automatically Available to all users

Click "Apply", save and exit, and restart your network services:

- # Service network restart
- 3. Validate these profiles:
- a) Check gateway: # vim / etc / sysconfig / network

NETWORKING=yes HOSTNAME=dtop5.dn.ws.com GATEWAY=172.28.10.1

b) Check Host Name: # vim /etc/hosts

172.28.10.5 dtop5.dn.ws.com dtop5 # Added by NetworkManager 127.0.0.1 localhost.localdomain localhost ::1 dtop.dn.ws.com dtop5 localhost6.localdomain6 localhost6

c) Check DNS: # vim /etc/resolv.conf # Generated by NetworkManager Search dn.ws.com Nameserver 172.28.10.1

d) Check Gateway: # vim /etc/sysconfig/network-scripts/ifcfg-eth0

DEVICE="eth0" NM CONTROLLED="yes" ONBOOT=yes TYPE=Ethernet BOOTPROTO=none IPADDR=172.28.10.5 PREFIX=24 GATEWAY=172.28.10.1 DNS1=172.28.10.1 DOMAIN=dn.ws.com **DEFROUTE**=yes IPV4 FAILURE FATAL=yes IPV6INIT=no NAME="System eth0" UUID=5fb06bd0-0bb0-7ffb-45f1-d6edd65f3e03 HWADDR=00:0c:29:0E:A6:C8

QUESTION 15

SIMULATION

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

Correct Answer: See explanation below.

Section: (none)

Explanation

Explanation/Reference: Explanation: # fdisk /dev/sda (check Partition table) (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 8 I 82 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 16 SIMULATION** Please open the ip forward, and take effect permanently. **Correct Answer:** See explanation below. Section: (none) Explanation **Explanation/Reference:** Explanation: vim /etc/sysctl.conf net.ipv4.ip_forward = 1 sysctl –w (takes effect immediately) If no "sysctl.conf" option, use these commands: sysctl –a |grep net.ipv4 sysctl -P net.ipv4.ip_forward = 1

sysctl-w

QUESTION 17

SIMULATION

Open kmcrl value of 5, and can verify in /proc/ cmdline

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation:

vim /boot/grub/grub.conf kernel/vmlinuz-2.6.32-71.el6.x86_64 ro root=/dev/mapper/GLSvg-GLSrootrd_LVM_LV=GLSvg/GLSroot rd_LVM_LV=GLSvg/GLSswaprd_NO_LUKSrd_NO_MDrd_NO_DM LANG=en_US.UTF-8 SYSFONT=latarcyrheb-sun16 KEYBOARDTYPE=pc KEYTABLE=us crashkernel=auto rhgb quiet kmcrl=5

Restart to take effect and verification:

cat /proc/cmdline

ro root=/dev/mapper/GLSvg-GLSroot rd_LVM_LV=GLSvg/GLSroot rd_LVM_LV=GLSvg/GLSswap rd_NO_LUKS rd_NO_MD rd_NO_DM

LANG=en_US.UTF-8 SYSFONT=latarcyrheb-sun16 KEYBOARDTYPE=pc KEYTABLE=us rhgb quiet kmcrl=5

QUESTION 18

SIMULATION

Upgrade the kernel, start the new kernel by default. kernel download from this address: tp://server1.domain10.example.com/pub/update/new.kernel

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation: Download the new kernel file and then install it. [root@desktop8 Desktop]# ls kernel-2.6.32-71.7.1.el6.x86_64.rpm kernel-firmware-2.6.32-71.7.1.el6.noarch.rpm [root@desktop8 Desktop]# rpm -ivh kernel-*

Verify the grub.conf file, whether use the new kernel as the default boot. [root@desktop8 Desktop]# cat /boot/grub/grub.conf default=0 title Red Hat Enterprise Linux Server (2.6.32-71.7.1.el6.x86_64) root (hd0.0)

kernel /vmlinuz-2.6.32-71.7.1.el6.x86 64 ro root=/dev/mapper/vol0-root rd LVM LV=vol0/root rd NO LUKS rd NO MD

rd_NO_DM LANG=en_US.UTF-8 SYSFONT=latarcyrheb-sun16 KEYBOARDTYPE=pc KEYTABLE=us crashkernel=auto rhgb quiet initrd /initramfs-2.6.32-71.7.1.el6.x86_64.img

QUESTION 19

SIMULATION

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.

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation:

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

QUESTION 20

SIMULATION

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: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation:

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

yum list

QUESTION 21

SIMULATION

There are two different networks, 192.168.0.0/24 and 192.168.1.0/24. Your System is in 192.168.0.0/24 Network. One RHEL6 Installed System is going to use as a Router. All required configuration is already done on Linux Server. Where 192.168.0.254 and 192.168.1.254 IP Address are assigned on that Server. How will make successfully ping to 192.168.1.0/24 Network's Host?

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation:

vi /etc/sysconfig/network GATEWAY=192.168.0.254

OR

vi /etc/sysconf/network-scripts/ifcfg-eth0 DEVICE=eth0

BOOTPROTO=static

ONBOOT=ves

IPADDR=192.168.0.?

NETMASK=255.255.255.0

GATEWAY=192.168.0.254

service network restart

Gateway defines the way to exit the packets. According to question System working as a router for two networks have IP Address 192.168.0.254 and 192.168.1.254.

QUESTION 22

SIMULATION

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

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation:

Use fdisk /dev/hda ->To create new partition.

Type n-> For New partition

It will ask for Logical or Primary Partitions. Press I 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.

QUESTION 23

SIMULATION

There are two different networks 192.168.0.0/24 and 192.168.1.0/24. Where 192.168.0.254 and 192.168.1.254 IP Address are assigned on Server. Verify your network settings by pinging 192.168.1.0/24 Network's Host.

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation:

vi /etc/sysconfing/network NETWORKING=yes HOSTNAME=station?.example.com GATEWAY=192.168.0.254

service network restart

2.vi /etc/sysconfig/network-scripts/ifcfg-eth0 DEVICE=eth0 ONBOOT=yes
BOOTPROTO=static
IPADDR=X.X.X.X
NETMASK=X.X.X.X
GATEWAY=192.168.0.254
ifdown eth0
ifup eth0

QUESTION 24

SIMULATION

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 will be acceptable.

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation:

First check the size of Logical Volume: Ivdisplay /dev/vo/myvol Make sure that the filesystem is in a consistent state before reducing: # fsck -f /dev/vo/myvol Now reduce the filesystem by 200MB. # resize2fs /dev/vo/myvol 200M

It is now possible to reduce the logical volume. #Ivreduce /dev/vo/myvol -L 200M Verify the Size of Logical Volume: Ivdisplay /dev/vo/myvol Verify that the size comes in online or not: df -h

QUESTION 25

SIMULATION

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.

Correct Answer: See explanation below.

Section: (none)

Explanation

Explanation/Reference:

Explanation:

lvextend -L+200M /dev/test0/testvolume1 Use lvdisplay /dev/test0/testvolume1)

ext2online -d /dev/test0/testvolume1

Ivextend command is used the increase the size of Logical Volume. Other command Ivresize command also here to resize. And to bring increased size on online we use the ext2online command.

QUESTION 26

SIMULATION

We are working on /data initially the size is 2GB. The /dev/test0/lvtestvolume is mount on /data. Now you required more space on /data but you already added all disks belong to physical volume. You saw that you have unallocated space around 5 GB on your harddisk. Increase the size of lvtestvolume by 5GB.

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation:

Create a partition having size 5 GB and change the syste id '8e'.

use partprobe command

pvcreate /dev/hda9 Suppose your partition number is hda9.

vgextend test0 /dev/hda9 vgextend command add the physical disk on volume group.

lvextend -L+5120M /dev/test0/lvtestvolume verify using lvdisplay /dev/test0/lvtestvolume.

QUESTION 27

SIMULATION

One Domain RHCE is configured in your lab, your domain server is server1.example.com. nisuser2001, nisuser2002, nisuser2003 user are created on your server 192.168.0.254:/rhome/stationx/nisuser2001. Make sure that when NIS user login in your system automatically mount the home directory. Home directory is separately shared on server /rhome/stationx/ where x is your Station number.

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation:

use the authconfig --nisserver=<NIS SERVER> --nisdomain=<NIS DOMAIN> -- update

Example: authconfig --niserver=192.168.0.254 --nisdomain=RHCE --update or system-config-authentication

Click on Enable NIS

Type the NIS Domain: RHCE

Type Server 192.168.0.254 then click on next and ok

You will get a ok message.

Create a Directory /rhome/stationx where x is your station number.

vi /etc/auto.master and write at the end of file /rhome/stationx /etc/auto.home --timeout=60

vi /etc/auto.home and write

* -rw,soft,intr 192.168.0.254:/rhome/stationx/&

Note: please specify your station number in the place of x.

Service autofs restart

Login as the nisuser2001 or nisuser2002 on another terminal will be Success. According to question, RHCE domain is already configured. We have to make a client of RHCE domain and automatically mount the home directory on your system. To make a member of domain, we use the authconfig with option or system-config authentication command. There a are lots of authentication server i.e NIS, LDAB, SMB etc. NIS is a RPC related Services, no need to configure the DNS, we should specify the NIS server address.

Here Automount feature is available. When user tried to login, home directory will automatically mount. The automount service used the /etc/auto.master file. On

/etc/auto.master file we specified the mount point the configuration file for mount point.

QUESTION 28

SIMULATION

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

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation:

chmod 770 /data

Verify using: Is -Id /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

QUESTION 29

SIMULATION

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

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation:

1. chmod g+s /data

2. Verify using: Is -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

QUESTION 30

SIMULATION

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?

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

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.

QUESTION 31

SIMULATION

Create the user named eric and deny to interactive login.

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

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.

QUESTION 32

SIMULATION

/data Directory is shared from the server1.example.com server. Mount the shared directory that:

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation:

1. vi /etc/auto.master /mnt /etc /auto.misc --timeout=50 vi /etc/auto.misc data -rw,soft,intr server1.example.com:/data service autofs restart chkconfig autofs on

When you mount the other filesystem, you should unmount the mounted filesystem, Automount feature of linux helps to mount at access time and after certain seconds, when user unaccess the mounted directory, automatically unmount the filesystem.

/etc/auto.master is the master configuration file for autofs service. When you start the service, it reads the mount point as defined in /etc/auto.master.

QUESTION 33

SIMULATION

One Logical Volume named Iv1 is created under vg0. The Initial Size of that Logical Volume is 100MB. Now you required the size 500MB. Make successfully the size of that Logical Volume 500M without losing any data. As well as size should be increased online.

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation: The LVM system organizes hard disks into Logical Volume (LV) groups. Essentially, physical hard disk partitions (or possibly RAID arrays) are set up in a bunch of equal sized chunks known as Physical Extents (PE). As there are several other concepts associated with the LVM system, let's start with some basic definitions:

Physical Volume (PV) is the standard partition that you add to the LVM mix. Normally, a physical volume is a standard primary or logical partition. It can also be a RAID array.

Physical Extent (PE) is a chunk of disk space. Every PV is divided into a number of equal sized PEs. Every PE in a LV group is the same size. Different LV groups can have different sized PEs.

Logical Extent (LE) is also a chunk of disk space. Every LE is mapped to a specific PE.

Logical Volume (LV) is composed of a group of LEs. You can mount a file system such as /home and /var on an LV.

Volume Group (VG) is composed of a group of LVs. It is the organizational group for LVM. Most of the commands that you'll use apply to a specific VG.

Verify the size of Logical Volume: lvdisplay /dev/vg0/lv1

Verify the Size on mounted directory: df -h or df -h mounted directory name

Use: lvextend -L+400M /dev/vg0/lv1

ext2online -d /dev/vg0/lv1 to bring extended size online.

Again Verify using Ivdisplay and df -h command.

QUESTION 34

SIMULATION

Create one partitions having size 100MB and mount it on data.

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation:

- 1. Use fdisk /dev/hda to create new partition.
- 2. Type n For New partitions.
- 3. It will ask for Logical or Primary Partitions. Press I for logical.

- 4. It will ask for the Starting Cylinder: Use the Default by pressing Enter Kev.
- 5. Type the Size: +100M you can specify either Last cylinder of size here.
- 6. Press P to verify the partitions lists and remember the partitions name.
- 7. Press w to write on partitions table.
- 8. Either Reboot or use partprobe command.
- 9. Use mkfs -t ext3 /dev/hda?

OR

mke2fs -j /dev/hda? To create ext3 filesystem.

vi /etc/fstab

Write:

/dev/hda? /data ext3 defaults 1 2

Verify by mounting on current Sessions also: mount /dev/hda? /data

QUESTION 35

SIMULATION

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: See explanation below.

Section: (none) Explanation

Explanation/Reference:

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 queit s
- 4. System will boot on Single User mode.
- 5. Use passwd command to change.
- 6. Press ctrl+d

QUESTION 36

SIMULATION

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?

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

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

QUESTION 37

SIMULATION

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.

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation: nameserver is specified in question,

1. Vi /etc/resolv.conf

nameserver 192.168.0.254

2. host server1.example.com

QUESTION 38

SIMULATION

One Package named zsh is dump on ftp://server1.example.com under /pub/updates directory and your FTP server is 192.168.0.254. Install the package zsh.

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation:

rpm -ivh ftp://server1/example.com/pub/updates/zsh-*

or

Login to ftp server: ftp ftp://server1.example.com using anonymous user.

Change the directory: cd pub and cd updates

Download the package: mget zsh-* Quit from the ftp prompt: bye

Install the package rpm -ivh zsh-*

Verify either package is installed or not : rpm -q zsh

QUESTION 39

SIMULATION

Some users home directory is shared from your system. Using showmount -e localhost command, the shared directory is not shown. Make access the shared users home directory.

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation:

Verify the File whether Shared or not?: cat /etc/exports

Start the nfs service: service nfs start

Start the portmap service: service portmap start

Make automatically start the nfs service on next reboot: chkconfig nfs on

Make automatically start the portmap service on next reboot: chkconfig portmap on

Verify either sharing or not: showmount -e localhost Check that default firewall is running on system?

If running flush the iptables using iptables -F and stop the iptables service.

QUESTION 40

SIMULATION

Add a new logical partition having size 100MB and create the data which will be the mount point for the new partition.

Correct Answer: See explanation below.

Section: (none)

Explanation

Explanation/Reference:

Explanation:

- 1. Use fdisk /dev/hda-> To create new partition.
- 2. Type n -> For New partitions
- 3. It will ask for Logical or Primary Partitions. Press I for logical.
- 4. It will ask for the Starting Cylinder: Use the Default by pressing Enter Keys
- 5. Type the size: +100M you can specify either Last cylinder of size here.
- 6. Press P to verify the partitions lists and remember the partitions name.
- 7. Press w to write on partitions table.
- 8. Either Reboot or use partprobe command.
- 9. Use mkfs -t ext3 /dev/hda?

OR

- 1. mke2fs -j /dev/hda? ->To create ext3 filesystem.
- 2. vi /etc/fstab
- 3. Write:

/dev/hda? /data ext3 defaults 0 0

4. Verify by mounting on current sessions also:

mount /dev/hda? /data

QUESTION 41

SIMULATION

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: See explanation below.

Section: (none) Explanation

Explanation/Reference:

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.html 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.

QUESTION 42

SIMULATION

There is a server having 172.24.254.254 and 172.25.254.254. Your System lies on 172.24.0.0/16. Make successfully ping to 172.25.254.254 by Assigning following IP: 172.24.0.x where x is your station number.

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation:

Use netconfig command

Enter the IP Address as given station number by your examiner: example: 172.24.0.1

Enter Subnet Mask

Enter Default Gateway and primary name server

press on ok

ifdown eth0

ifup eth0

verify using ifconfig

In the lab server is playing the role of router, IP forwarding is enabled. Just set the Correct IP and gateway, you can ping to 172.25.254.254.

QUESTION 43

SIMULATION

Successfully resolve to server1.example.com where your DNS server is 172.24.254.254.

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation:

vi /etc/resolv.conf

nameserver 172.24.254.254 host server1.example.com

On every clients, DNS server is specified in /etc/resolv.conf. When you request by name it tries to resolv from DNS server.

QUESTION 44

SIMULATION

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

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

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.

QUESTION 45

SIMULATION

Who ever creates the files/directories on archive group owner should be automatically should be the same group owner of archive.

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation:

chmod g+s /archive

Verify using: Is -Id /archive Permission should be like:

drwxrws--- 2 root sysuser 4096 Mar 16 18:08 /archive

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

QUESTION 46

SIMULATION

Make on /archive directory that only the user owner and group owner member can fully access.

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation:

chmod 770 /archive

Verify using: Is -ld /archive Preview should be like: drwxrwx--- 2 root sysuser 4096 Mar 16 18:08 /archive

To change the permission on directory we use the chmod command. According to the question that only the owner user (root) and group member (sysuser) can fully access the directory so: chmod 770 /archive

QUESTION 47

SIMULATION

Notes:

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

YUM: http://instructor.example.com/pub/rhel6/dvd

Idap: http://instructor.example.com/pub/EXAMPLE-CA-CERT

Install dialog package.

Correct Answer: yum install dialog

Section: (none) Explanation

Explanation/Reference:

QUESTION 48

SIMULATION

SELinux must run in force mode.

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation: /etc/sysconfig/selinux

SELINUX=enforcing

QUESTION 49

SIMULATION

The firewall must be open.

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation: /etc/init.d/iptables start

iptables -F iptables -X iptables -Z /etc/init d/ipta

/etc/init.d/iptables save chkconfig iptables on

QUESTION 50

SIMULATION

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

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation: /etc/fstab:

/root/examine.iso /mnt/iso iso9660 loop 0 0 mount -a

mount | grep examine

QUESTION 51

SIMULATION

Configure your NFS services. Share the directory by the NFS Shared services.

Correct Answer: See explanation below.

Section: (none)

Explanation

Explanation/Reference:

Explanation: /etc/init.d/rpcbind start /etc/init.d/nfslock start /etc/init.d/nfs start chkconfig rpcbind on chkconfig nfslock on chkconfig nfs on showmount -e localhost

QUESTION 52

SIMULATION

- 1. Find all sizes of 10k file or directory under the /etc directory, and copy to /tmp/findfiles directory.
- 2. Find all the files or directories with Lucy as the owner, and copy to /tmp/findfiles directory.

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

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.

QUESTION 53

SIMULATION

There is a local logical volumes in your system, named with common and belong to VGSRV volume group, mount to the /common directory. The definition of size is 128 MB.

Requirement:

Extend the logical volume to 190 MB without any loss of data. The size is allowed between 160-160 MB after extending.

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation: lvextend -L 190M /dev/mapper/vgsrv-common resize2fs /dev/mapper/vgsrv-common

https://www.gratisexam.com/

QUESTION 54

SIMULATION

There is a local logical volumes in your system, named with shrink and belong to VGSRV volume group, mount to the /shrink directory. The definition of size is 320 MB.

Requirement:

Reduce the logical volume to 220 MB without any loss of data. The size is allowed between 200-260 MB after reducing.

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation: cd;umount /shrink e2fsck -f /dev/mapper/vgsrv-shrink resize2fs /dev/mapper/vgsrv-shrink 220M lvreduce -L 220M /dev/mapper/vgsrv-shrink mount -a

QUESTION 55

SIMULATION

Create a swap space, set the size is 600 MB, and make it be mounted automatically after rebooting the system (permanent mount).

Correct Answer: See explanation below.

Section: (none) Explanation

Explanation/Reference:

Explanation:

if=/dev/zero of=/swapfile bs=1M count=600 mkswap /swapfile

/etc/fstab:

/swapfile swap swap defaults 0 0 mount -a