



Red-Hat

Exam Questions EX200

EX200 Red Hat Certified System Administrator (RHCSA) Exam

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NEW QUESTION 1

Please open the ip_forward, and take effect permanently.

- A. Mastered
- B. Not Mastered

Answer: A

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

NEW QUESTION 2

Part 1 (on Node1 Server)

Task 15 [Running Containers]

Create a container named logserver with the image rhel8/rsyslog found from the registry registry.domain15.example.com:5000

The container should run as the root less user shangrila. use redhat as password [sudo user] Configure the container with systemd services as the shangrila user using the service name,

"container-logserver" so that it can be persistent across reboot.

Use admin as the username and admin123 as the credentials for the image registry.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
*
[root@workstation ~]# ssh shangrila@node1
[shangrila@node1 ~]$ podman login registry.domain15.example.com:5000
Username: admin
Password:
Login Succeeded!
[shangrila@node1 ~]$ podman pull registry.domain15.example.com:5000/rhel8/rsyslog
[shangrila@node1 ~]$ podman run -d --name logserver registry.domain15.example.com:5000/rhel8/rsyslog
021b26669f39cc42b8e94eab886ba8293d6247bf68e4b0d76db2874aef284d6d
[shangrila@node1 ~]$ mkdir -p ~/.config/systemd/user
[shangrila@node1 ~]$ cd ~/.config/systemd/user
*
[shangrila@node1 user]$ podman generate systemd --name logserver --files --new
/home/shangrila/.config/systemd/user/container-logserver.service
[shangrila@node1 ~]$ systemctl --user daemon-reload
[shangrila@node1 user]$ systemctl --user enable --now container-logserver.service
[shangrila@node1 ~]$ podman ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
7d9f7a8a4d63 registry.domain15.example.com:5000/rhel8/rsyslog:latest /bin/rsyslog.sh 2 seconds ago logserver
[shangrila@node1 ~]$ sudo reboot
[shangrila@node1 ~]$ cd .config/systemd/user
[shangrila@node1 user]$ systemctl --user status
```

NEW QUESTION 3

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

- A. Mastered
- B. Not Mastered

Answer: A

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-*
Preparing... #####
[100%]
1:kernel-firmware
##### [ 50%]
2:kernel
##### [100%]
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
```

NEW QUESTION 4

Set cronjob for user natasha to do /bin/echo hiya at 14:23.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
# crontab -e -u natasha
23 14 * * * /bin/echo hiya
wq!
```

NEW QUESTION 5

Add admin group and set gid=600

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
# groupadd -g 600 admin
```

NEW QUESTION 6

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 7

Part 1 (on Node1 Server)

Task 2 [Installing and Updating Software Packages]

Configure your system to use this location as a default repository: <http://utility.domain15.example.com/BaseOS>

<http://utility.domain15.example.com/AppStream>

Also configure your GPG key to use this location <http://utility.domain15.example.com/RPM-GPG-KEY-redhat-release>

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
* [root@node1 ~]# vim /etc/yum.repos.d/redhat.repo
[BaseOS]
name=BaseOS
baseurl=http://utility.domain15.example.com/BaseOS
```

```
enabled=1
gpgcheck=1
gpgkey=http://utility.domain15.example.com/RPM-GPG-KEY-redhat-release
[AppStream]
name=AppStream
baseurl=http://utility.domain15.example.com/AppStream
enabled=1
gpgcheck=1
gpgkey=http://utility.domain15.example.com/RPM-GPG-KEY-redhat-release
[root@node1 ~]# yum clean all
[root@node1 ~]# yum repolist
[root@node1 ~]# yum list all
```

NEW QUESTION 8

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.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

see explanation below.

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

NEW QUESTION 9

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/ldapuser11 :wq!
#service autofs restart
> service autofs reload
> chkconfig autofs on
> su -ldapuser11
Login ldapuser with home directory
# exit
```

NEW QUESTION 10

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?

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
> vi /etc/sysconfig/network GATEWAY=192.168.0.254
OR
vi /etc/sysconf/network-scripts/ifcfg-eth0 DEVICE=eth0
BOOTPROTO=static
ONBOOT=yes
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.

NEW QUESTION 10

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.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

see explanation below.

- 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.

NEW QUESTION 15

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

- A. Mastered
- B. Not Mastered

Answer: A

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.

NEW QUESTION 16

Part 1 (on Node1 Server)

Task 13 [Archiving and Transferring Files & SELinux]

Create a backup file named /root/backup.tar.bz2. The backup file should contain the content of /usr/local and should be zipped with bzip2 compression format. Furthermore, ensure SELinux is in enforcing mode. If it is not, change SELinux to enforcing mode.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
*
[root@node1 ~]# tar cvf /root/backup.tar /usr/local/
tar: Removing leading `/' from member names
/usr/local/
/usr/local/bin/
/usr/local/etc/
[root@node1 ~]# ls
backup.tar
[root@node1 ~]# file backup.tar
backup.tar: POSIX tar archive (GNU)
[root@node1 ~]# bzip2 backup.tar
[root@node1 ~]# ls
backup.tar.bz2
[root@node1 ~]# file backup.tar.bz2
backup.tar.bz2: bzip2 compressed data, block size = 900k
•
[root@node1 ~]# sestatus
SELinux status: enabled
[root@node1 ~]# cat /etc/selinux/config
SELINUX=enforcing
SELINUXTYPE=targeted
[root@node1 ~]# reboot
### For Checking ###
[root@node1 ~]# sestatus
SELinux status: enabled
```

NEW QUESTION 20

Copy /etc/fstab document to /var/TMP directory. According the following requirements to configure the permission of this document.

- The owner of this document must be root.
- This document belongs to root group.
- User mary have read and write permissions for this document.
- User alice have read and execute permissions for this document.
- Create user named bob, set uid is 1000. Bob have read and write permissions for this document.
- All users has read permission for this document in the system.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
cp /etc/fstab /var/tmp
chown root:root /var/tmp/fstab
chmod a-x /var/tmp/fstab
setfacl -m u:mary:rw /var/tmp/fstab
setfacl -m u:alice:rx /var/tmp/fstab
useradd -u 1000 bob
```

NEW QUESTION 21

Part 1 (on Node1 Server)

Task 4 [Controlling Access to Files]

Create collaborative directory /mnt/shares with the following characteristics:

Group ownership of /mnt/shares should be sharegrp.

The directory should be readable, writable and accessible to member of sharegrp but not to any other user. (It is understood that root has access to all files and directories on the system)

Files created in /mnt/shares automatically have group ownership set to the sharegrp group.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

*

```
[root@node1 ~]# mkdir -p /mnt/shares
[root@node1 ~]# ls -lrt /mnt/
[root@node1 ~]# chgrp sharegrp /mnt/shares/
[root@node1 ~]# chmod 2770 /mnt/shares/
[root@node1 ~]# ls -lrt /mnt/
### For Checking ###
[root@node1 ~]# su - harry
[harry@node1 ~]$ cd /mnt/shares/
[harry@node1 shares]$ touch harry
[harry@node1 shares]$ logout
[root@node1 ~]# su - natasha
[natasha@node1 ~]$ cd /mnt/shares/
[natasha@node1 shares]$ touch natasha
[natasha@node1 shares]$ ls -lrt
-rw-rw-r--. 1 harry sharegrp 0 Mar 21 06:03 harry
-rw-rw-r--. 1 natasha sharegrp 0 Mar 21 06:03 natasha
```

NEW QUESTION 24

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 28

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
8 l
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)
```

NEW QUESTION 30

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.

- 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 31

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.

- A. Mastered
- B. Not Mastered

Answer: A

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
```

NEW QUESTION 32

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 35

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.

- A. Mastered
- B. Not Mastered

Answer: A

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

NEW QUESTION 36

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 37

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
> if=/dev/zero of=/swapfile bs=1M count=600 mkswap /swapfile
/etc/fstab:
/swapfile swap swap defaults 0 0 mount -a
```

NEW QUESTION 39

Part 1 (on Node1 Server)

Task 10 [Configuring NTP/Time Synchronization]

Configure your system so that it is an NTP client of utility.domain15.example.com

The system time should be set to your (or nearest to you) timezone and ensure NTP sync is configured

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

*

```
[root@node1 ~]# yum install chrony
[root@node1 ~]# vim /etc/chrony.conf
pool utility.domain15.example.com iburst
[root@node1 ~]# systemctl enable chronyd
[root@node1 ~]# systemctl restart chronyd
[root@node1 ~]# systemctl status chronyd
[root@node1 ~]# tzselect
Please identify a location so that time zone rules can be set correctly.
Please select a continent, ocean, "coord", or "TZ".
1) Africa
2) Americas
3) Antarctica
4) Asia
11) TZ - I want to specify the time zone using the Posix TZ format.
#? 4
```

Please select a country whose clocks agree with yours.

```
1) Afghanistan 18) Israel 35) Palestine
2) Armenia 19) Japan 36) Philippines
3) Azerbaijan 20) Jordan 37) Qatar
4) Bahrain 21) Kazakhstan 38) Russia
5) Bangladesh 22) Korea (North) 39) Saudi Arabia
#? 5
```

The following information has been given: Bangladesh

Therefore TZ='Asia/Dhaka' will be used. Is the above information OK?

```
1) Yes
```

```
2) No
```

```
#? 1
```

```
Asia/Dhaka
```

```
[root@node1 ~]# chronyc sources -v
```

```
^? utility.domain15.example> 0 7 0 - +0ns[ +0ns] +/- 0ns
```

NEW QUESTION 42

Part 1 (on Node1 Server)

Task 9 [Managing Files from the Command Line]

Search the string nologin in the /etc/passwd file and save the output in /root/strings

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

*

```
[root@node1 ~]# cat /etc/passwd | grep nologin > /root/strings
[root@node1 ~]# cat /root/strings
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
mail:x:8:12:mail:/var/spool/mail:/sbin/nologin
```

NEW QUESTION 45

Part 1 (on Node1 Server)

Task 5 [Controlling Access to Files with ACLs]

Copy the file /etc/fstab to /var/tmp. Configure the following permissions on /var/tmp/fstab.

The file /var/tmp/fstab is owned by root user
The file /var/tmp/fstab is belongs to the root group
The file /var/tmp/fstab should be executable by anyone
The user harry is able to read and write on /var/tmp/fstab
The user natasha can neither read or write on /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:

```
*
[root@node1 ~]# cp -p /etc/fstab /var/tmp/
[root@node1 ~]# ls -lrt /etc/fstab
[root@node1 ~]# ls -lrt /var/tmp/fstab
[root@node1 ~]# chmod a+x /var/tmp/fstab
[root@node1 ~]# getfacl /var/tmp/fstab
[root@node1 ~]# setfacl -m u:harry:rw- /var/tmp/fstab
[root@node1 ~]# setfacl -m u:natasha:--- /var/tmp/fstab
[root@node1 ~]# getfacl /var/tmp/fstab
getfacl: Removing leading '/' from absolute path names
# file: var/tmp/fstab
# owner: root
# group: root
user::rwx
user:harry:rw-
user:natasha:---
group::r-x
mask::rwx
other::r-x
*
[root@node1 ~]# su - natasha
[natasha@node1 ~]$ cat /var/tmp/fstab
cat: /var/tmp/fstab: Permission denied
```

NEW QUESTION 46

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
> 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

NEW QUESTION 51

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 55

Open `kmcr1` value of 5 , and can verify in `/proc/ cmdline`

- A. Mastered
- B. Not Mastered

Answer: A

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/GLSswprd_NO_LUKSrd_NO_MDrd_NO_DM
LANG=en_US.UTF-8 SYSFONT=latacyrheb-sun16 KEYBOARDTYPE=pc KEYTABLE=us crashkernel=auto rhgb quiet kmcr1=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=latacyrheb-sun16 KEYBOARDTYPE=pc KEYTABLE=us rhgb quiet kmcr1=5
```

NEW QUESTION 60

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 63

Configure your system so that it is an NTP client of `server.domain11.example.com`

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
#system-config-date
Note: dialog box will open in that
Check mark Synchronize date and time over network. Remove all the NTP SERVER and click ADD and type server.domain11.example.com
*****And then press ENTER and the press OK*****
```

NEW QUESTION 64

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 65

Add user: user1, set uid=601 Password: redhat
The user's login shell should be non-interactive.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 67

Create a backup file named /root/backup.tar.bz2, which contains the contents of /usr/local, but must use the bzip2 compression.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
cd /usr/local
tar -jcvf /root/backup.tar.bz2*
mkdir /test
tar -jxvf /root/backup.tar.bz2 -C /test/
```

NEW QUESTION 69

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.)

- A. Mastered
- B. Not Mastered

Answer: A

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)
```

NEW QUESTION 70

Part 2 (on Node2 Server)
Task 6 [Implementing Advanced Storage Features]
Add a new disk to your virtual machine with a size of 10 GiB
On this disk, create a VDO volume with a size of 50 GiB and mount it persistently on /vbreed with xfs filesystem

- A. Mastered
- B. Not Mastered

Answer: A

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
```

```
[root@node2 ~]# yum install kmod-kvdo vdo
[root@node2 ~]# systemctl enable --now vdo
[root@node2 ~]# systemctl start vdo
[root@node2 ~]# systemctl status vdo
[root@node2 ~]# vdo create --name=vdo1 --device=/dev/vde --vdoLogicalSize=50G
[root@node2 ~]# vdo stats --hu
Device Size Used Available Use% Space saving%
/dev/mapper/vdo1 10.0G 4.0G 6.0G 40% N/A
[root@node2 ~]# mkfs.xfs -K /dev/mapper/vdo1
*
[root@node2 ~]# lsblk
NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT
vde 252:64 0 10G 0 disk
vdo1 253:4 0 50G 0 vdo
[root@node2 ~]# mkdir /vbread
[root@node2 ~]# blkid
/dev/mapper/vdo1: UUID="1ec7a341-6051-4aed-8a2c-4d2d61833227" BLOCK_SIZE="4096" TYPE="xfs" [root@node2 ~]# vim /etc/fstab
UUID=1ec7a341-6051-4aed-8a2c-4d2d61833227 /vbread xfs defaults,x-systemd.requires=vdo.service 0 0 [root@node2 ~]# mount /dev/mapper/vdo1 /vbread/
[root@node2 ~]# df -hT
Filesystem Type Size Used Avail Use% Mounted on
/dev/mapper/vdo1 xfs 50G 390M 50G 1% /vbread
```

NEW QUESTION 75

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 80

Create a new logical volume according to the following requirements:

The logical volume is named database and belongs to the datastore volume group and has a size of 50 extents. Logical volumes in the datastore volume group should have an extent size of 16 MB.

Format the new logical volume with a ext3 filesystem.

The logical volume should be automatically mounted under /mnt/database at system boot time.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
fdisk -cu /dev/vda
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
```

NEW QUESTION 84

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

➤ `chmod 770 /archive`

➤ Verify using : `ls -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`

NEW QUESTION 88

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.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

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

NEW QUESTION 92

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 95

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.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
> vi /etc/sysconfig/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
```

NEW QUESTION 100

Part 1 (on Node1 Server)

Task 17 [Accessing Linux File Systems]

Find all the files owned by user "alex" and redirect the output to /home/alex/files.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

```
* root@node1 ~]# find / -user alex -type f > /home/alex/files
```

NEW QUESTION 101

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