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Red Hat Certified System Administrator - RHCSA

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QUESTION 1

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: Check the anser in explanation.

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

QUESTION 2

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

Correct Answer: Check the anser in explanation.

cd /etc/syscofig/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 3

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.

Correct Answer: Check the anser in 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 4

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: Check the anser in 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 5

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.

Correct Answer: Check the anser in 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

---

QUESTION 6

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

Correct Answer: Check the anser in 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 7

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.

Correct Answer: Check the anser in explanation.

rpm -ivh kernel-firm… rpm -ivh kernel...

QUESTION 8

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: Check the anser in 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 9

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: Check the anser in explanation.

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

ext2online -d /dev/test0/testvolume1

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

QUESTION 10

Create the following users, groups, and group memberships:

A group named adminuser.

A user natasha who belongs to adminuser as a secondary group A user harry who also belongs to adminuser as a secondary group.

A user sarah who does not have access to an interactive shell on the system, and who is not a member of adminuser, natasha, harry, and sarah should all have the password of redhat.

Correct Answer: Check the anser in explanation.

groupadd sysmgrs

useradd -G sysmgrs Natasha

We can verify the newly created user by cat /etc/passwd) # useradd -G sysmgrs harry # useradd -s /sbin/nologin sarrh # passwd Natasha # passwd harry # passwd sarrah

QUESTION 11

Add admin group and set gid=600

Correct Answer: Check the anser in explanation.

groupadd -g 600 admin

QUESTION 12

The system ldap.example.com provides an LDAP authentication service. Your system should bind to this service as follows: The base DN for the authentication service is dc=domain11, dc=example, dc=com LDAP is used to provide both account information and authentication information. The connection should be encrypted using the certificate at http:// host.domain11.example.com/pub/domain11.crt When properly configured, ldapuserX should be able to log into your system, but will not have a home directory until you have completed the autofs requirement. Username: ldapuser11 Password: password

Correct Answer: Check the anser in explanation.

system-config-authentication LDAP user DN=dc=domain11,dc=example,dc=com Server=host.domain11.example.com Certificate= http://host.domain11.example.com/pub/domain11.crt (enter url carefully, there maybe // or ..) LDAP password OK starting sssd

su -ldapuser11 Display Bash prompt #exit

QUESTION 13

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

Correct Answer: Check the anser in 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 14

Part 2 (on Node2 Server)

Task 8 [Tuning System Performance]

Set your server to use the recommended tuned profile

Correct Answer: Check the anser in explanation.

[root@node2 ~]# tuned-adm list [root@node2 ~]# tuned-adm active Current active profile: virtual-guest [root@node2 ~]# tuned-adm recommend virtual-guest [root@node2 ~]# tuned-adm profile virtual-guest [root@node2 ~]# tuned-adm active Current active profile: virtual-guest [root@node2 ~]# reboot [root@node2 ~]# tuned-adm active Current active profile: virtual-guest

QUESTION 15

Configure the permissions of /var/tmp/fstab

Copy the file /etc/fstab to /var/tmp/fstab. Configure the permissions of /var/tmp/fstab so that:

the file /var/tmp/fstab is owned by the root user.

the file /var/tmp/fstab belongs to the group root.

the file /var/tmp/fstab should not be executable by anyone.

the user natasha is able to read and write /var/tmp/fstab.

the user harry can neither write nor read /var/tmp/fstab.

all other users (current or future) have the ability to read /var/tmp/fstab.

Correct Answer: Check the anser in explanation.

cp -a /etc/fstab /var/tmp

cd /var/tmp

ls -l

getfacl /var/tmp/fstab

chmod ugo-x /var/tmp/fstab

[No need to do this, there won\\'t be execute permission for the file by default]

setfacl -m u:natasha:rw /var/tmp/fstab # setfacl -m u:harry:0 /var/tmp/fstab(zero)

[Read permission will be there for all the users, by default. Check it using ls -l /var/tmp/fstab] Verify by [ls -la /var/tmp/fstab]