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QUESTION 1

SIMULATION

There were two systems:

system1, main system on which most of the configuration take place

system2, some configuration here

Smb multiuser mount

Mount the samba share /opstack permanently beneath /mnt/smbspace on desktopX as a multiuser mount.

The samba share should be mounted with the credentials of frankenstein.

A. explanation

Correct Answer: A

```
yum -y install cifs-utils samba-client
mkdir -p /mnt/smbspace
vim /root/smb-multiuser.txt

username=frankenstein
password=SaniTago
chmod 0600 /root/multiuser.txt
vim /etc/fstab
//server1/cluster /mnt/smbspace cifs defaults,sec =ntlmssp,
credentials=/root/smb-multiuser.txt,multiuser 0 0
```

QUESTION 2

There were two systems: system1, main system on which most of the configuration take place system2, some configuration here

iSCSI Initiator The serverX.example.com provides an iscsi port (3260). Connect the disk with desktopX.example.com and configure filesystem with the following requirements. Create 800 MB partition on iSCSI block device and assign the filesystem as xfs Mount the volume under /mnt/initiator at the system boot time The filesystem should contain the copy of http://station.network0.example.com/pub/iscsi.txt The file should be owned by root with 0644 permission NOTE: the content of the file should not be modified

A. explanation

Correct Answer: A

```
yum install –y iscsi-initiator-utils

vim /etc/iscsi/initiatorname.iscsi
InitiatorName=iqn.2014-11.com.example:desktop1

systemctl start iscsi
systemctl start iscsid

systemctl enable iscsi
systemctl enable iscsid

iscsiadm --mode discoverydb --type sendtargets --portal server1.example.com --discover
iscsiadm --mode node --targetname iqn.2014-11.com.example:server1 --portal server1.example.com:3260 --login
```

Verification:

```
iscsiadm –m session –P 3 (it should show the State: running)
lsblk


fdisk /dev/sdb
Create the partition of 800M

mkfs.xfs /dev/sdb1

mkdir –p /mnt/initiator
mount /dev/sdb1 /mnt/initiator

blkid /dev/sdb1

vim /etc/fstab

UUID=c9213938-6753-4001-b939-4b5720c8ec5e /mnt/initiator xfs _netdev 0 0

cd /mnt/initiator
wget http://station.network0.example.com/pub/iscsi.txt
chown root iscsi.txt
chmod 0644 iscsi.txt
```

QUESTION 3

SIMULATION

Arrange a web service address is: http://serverX.example.com, X is the number of your exam machine. Deploy it in accordance with the following requirements: Download ftp //instructor.example.com/pub/rhce/server.html Cannot do any modification to file document server.html Rename file document server.html as index.html Copy the file document server.html to DocumentRoot

A. explanation

Correct Answer: A

QUESTION 4

SIMULATION

Configure the kernel parameters: rhelblq=1, and it is requested that your kernel parameters can be verified through /proc/cmdline.

A. explanation

Correct Answer: A

```
# vim /boot/grub/grub.conf
      rhelblq=1    (Add to end of the line "kernel....)
Restart
   # cat /proc/cimline
```

QUESTION 5

SIMULATION

Configure cron and don\\'t allow the user tom to use.

A. explanation

Correct Answer: A

```
# useradd tom
# vim /etc/cron.deny
      tom
```

QUESTION 6

SIMULATION

There were two systems:

system1, main system on which most of the configuration take place

system2, some configuration here

Configure NFS mount.

Mount /nfsshare directory on desktopX under /public directory persistently at system boot time.

Mount /nfssecure/protected with krb5p secured share on desktopX beneath /secure/protected provided with keytab http://station.network0.example.com/pub/

keytabs/desktopX.keytab

The user harry is able to write files on /secure directory

A. explanation

Correct Answer: A

```
yum install -y nfs-utils
wget -O /etc/krb5.keytab
http://station.network0.example.com/pub/keytabs/desktopX.keytab
systemctl start nfs-secure
systemctl enable nfs-secure

mkdir -p /public
vim /etc/fstab
server1.example.com:/nfsshare /public nfs defaults, sync 0 0
mkdir -p /secure/protected
vim /etc/fstab
server1.example.com:/nfssecure/protected /secure/protected nfs
defaults,v4.2,sec=krb5p,sync 0 0
```

Verification from DesktopX:

```
ssh harry@localhost
cd /secure/protected
echo "Is it writeable?" >>test.txt
```

QUESTION 7

SIMULATION

RHCE Test Configuration Instructions

Information for the two systems you will use in test is the following:

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Password for both of the two systems is atenorth

System\'s IP is provided by DHCP, you can regard it as normal, or you can reset to Static IP in accordance with the following requirements:

system1.group3.example.com: 172.24.3.5

system2.group3.example.com: 172.24.3.10

The subnet mask is 255.255.255.0

Your system is a member of DNS domain group3.example.com. All systems in DNS domain group3.example.com are all in subnet 172.24.3.0/255.255.255.0, the same all systems in this subnet are also in group3.example.com, unless

specialized, all network services required to be configured can be accessed by systems of domain group3.

host.group3.example.com provides a centralized authentication service domain

GROUP3.EXAMPLE.COM, both system1 and system2 have already been pre-configured to be the client for this domain, this domain provides the following user account:

```
krishna (password: atenorth)
sergio (password: atenorth)
kaito (password: atenorth)
```

Firewall is enabled by default, you can turn it off when deemed appropriate, other settings about firewall may be in separate requirements.

Your system will be restarted before scoring, so please ensure that all modifications and service configurations you made still can be operated after the restart without manual intervention, virtual machine instances of all examinations must be

able to enter the correct multi-user level after restart without manual assistance, it will be scored zero if the test using virtual machine system cannot be restarted or be properly restarted.

Corresponding distribution packages for the testing using operating system Red Hat Enterprise Linux version can be found in the following link:

http://server1.group3.example.com/rhel

Part of the requirements include host security, ensure your host security limit does not prevent the request to allow the host and network, although you correctly configured the network service but would have to allow the host or network is

blocked, this also does not score.

You will notice that some requirements which clearly do not allow services be accessed by service domain my133t.org, systems of this domain are in subnet 172.25.1.0/252.255.255.0, and systems of these subnets also belong to my 133t.org

domain.

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Database Query

Use database Contacts on the system1, and use the corresponding SQL to search and answer the following questions:

1.

What\\'s the person name whose password is solicitous?

2.

How many people\\'s names are John and live is Shanghai at the same time?

A. explanation

Correct Answer: A

```
mysql -uroot -p
show tables;        // View the table structure
desc table name;        // View the table field
select bid,password from pass where password='tangerine';

// To find the ID number of password
select * from name where aid='3' ;          // To find the name via password
select * from name where firstname='John';    // To find the people with same
name
select * from loc where loction='Santa Clara';    // To find the people who live
in the same city
```

QUESTION 8

SIMULATION

RHCE Test Configuration Instructions

Information for the two systems you will use in test is the following:

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system1.group3.example.com: 172.24.3.5

system2.group3.example.com: 172.24.3.10 The subnet mask is 255.255.255.0 Your system is a member of DNS domain group3.example.com. All systems in DNS domain group3.example.com are all in subnet 172.24.3.0/255.255.255.0, the same all systems in this subnet are also in group3.example.com, unless

specialized, all network services required to be configured can be accessed by systems of domain group3.

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GROUP3.EXAMPLE.COM, both system1 and system2 have already been pre-configured to be the client for this domain, this domain provides the following user account:

```
krishna (password: atenorth)
sergio (password: atenorth)
kaito (password: atenorth)
```

Firewall is enabled by default, you can turn it off when deemed appropriate, other settings about firewall may be in separate requirements.

Your system will be restarted before scoring, so please ensure that all modifications and service configurations you made still can be operated after the restart without manual intervention, virtual machine instances of all examinations must be able to enter the correct multi-user level after restart without manual assistance, it will be scored zero if the test using virtual machine system cannot be restarted or be properly restarted.

Corresponding distribution packages for the testing using operating system Red Hat Enterprise Linux version can be found in the following link: http://server1.group3.example.com/rhel

Part of the requirements include host security, ensure your host security limit does not prevent the request to allow the host and network, although you correctly configured the network service but would have to allow the host or network is blocked, this also does not score.

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Implement/configure a Web Service.

Configure a site http://systeml. domain11.example.com/ on the system1, then execute the following steps:

(1)

 Download file from http://rhgls.domain11.example.com/materials/station.html and rename this files index.html, don\\'t modify the file contents; (2) Copy the file index.html to your web server\\'s DocumentRoot directory

(3)

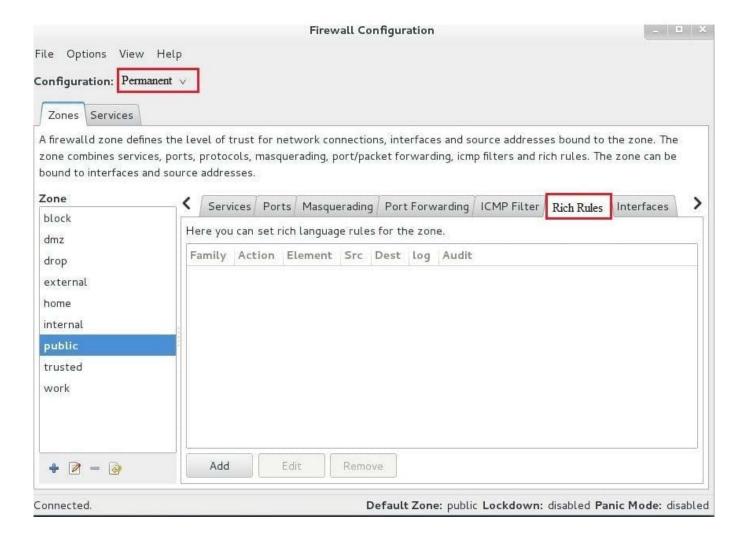 Clients from domain group3.example.com can access to this web service

(4)

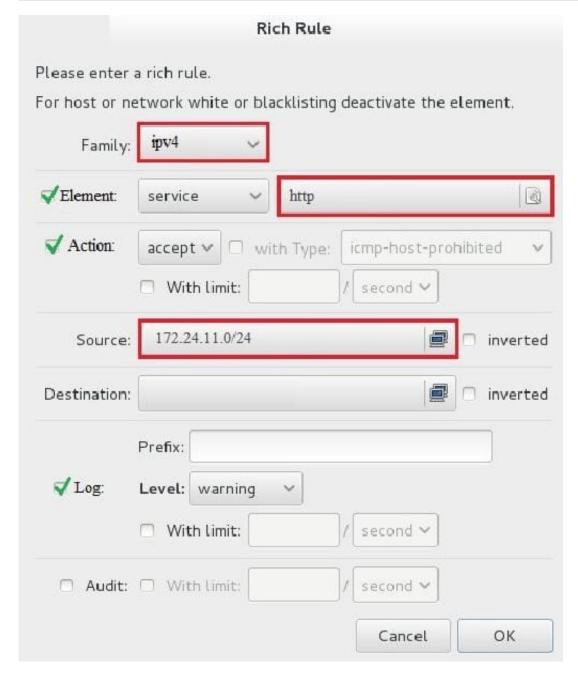 Clients from domain my133t.org deny access to this web service

A.

explanation

Correct Answer: A

```
yum groupinstall web\* -y
systemctl start httpd
systemctl enable httpd
vim /etc/httpd/conf/httpd.conf
/ServerName
ServerName server1.domain11.example.com:80
systemctl restart httpd
wget -O index.html
http://rhgls.domain11.example.com/materials/station.html
firewall-config
```

systemctl restart firewalld

QUESTION 9

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 to 210MB will be acceptable.

A. explanation

Correct Answer: A

```
1. First check the size of Logical Volume: lvdisplay /dev/vo/myvol
2. Make sure that the filesystem is in a consistent state before
reducing:
# fsck -f /dev/vo/myvol
3. Now reduce the filesystem by 200MB.
# resize2fs /dev/vo/myvol 200M
4. It is now possible to reduce the logical volume.
#lvreduce /dev/vo/myvol -L 200M
4. Verify the Size of Logical Volume: lvdisplay /dev/vo/myvol
5. Verify that the size comes in online or not: df -h
```

QUESTION 10

SIMULATION

Add a cron schedule to take full backup of /home on every day at 5:30 pm to /dev/st0 device.

A. explanation

Correct Answer: A

1.

 vi /var/schedule 30 17 * * * /sbin/dump -0u /dev/st0 /dev/hda7

2.

 crontab /var/schedule

3.

 service crond restart

We can add the cron schedule either by specifying the scripts path on /etc/crontab file or by creating on text file on crontab pattern. cron helps to schedule on recurring events. Pattern of cron is: Minute Hour Day of Month Month Day of Week

Commands

0-59 0-23 1-31 1-12 0-7 where 0 and 7 mean Sunday.

Note * means every. To execute the command on every two minutes */2.

QUESTION 11

SIMULATION

RHCE Test Configuration Instructions

Information for the two systems you will use in test is the following:

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Password for both of the two systems is atenorth

System\'s IP is provided by DHCP, you can regard it as normal, or you can reset to Static IP in accordance with the following requirements:

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The subnet mask is 255.255.255.0

Your system is a member of DNS domain group3.example.com. All systems in DNS domain group3.example.com are all in subnet 172.24.3.0/255.255.255.0, the same all systems in this subnet are also in group3.example.com, unless

specialized, all network services required to be configured can be accessed by systems of domain group3.

host.group3.example.com provides a centralized authentication service domain

GROUP3.EXAMPLE.COM, both system1 and system2 have already been pre-configured to be the client for this domain, this domain provides the following user account:

```
krishna (password: atenorth)
sergio (password: atenorth)
kaito (password: atenorth)
```

Firewall is enabled by default, you can turn it off when deemed appropriate, other settings about firewall may be in separate requirements.

Your system will be restarted before scoring, so please ensure that all modifications and service configurations you made still can be operated after the restart without manual intervention, virtual machine instances of all examinations must be able to enter the correct multi-user level after restart without manual assistance, it will be scored zero if the test using virtual machine system cannot be restarted or be properly restarted.

Corresponding distribution packages for the testing using operating system Red Hat Enterprise Linux version can be found in the following link: http://server1.group3.example.com/rhel

Part of the requirements include host security, ensure your host security limit does not prevent the request to allow the host and network, although you correctly configured the network service but would have to allow the host or network is blocked, this also does not score.

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completed. Certainly, you do not need to care these buttons if you don\\'t need them.

Configure Multi-User SMB Mounts.

Share the directory /devops through SMB on the systeml, as required:

1.

 The share name is devops

2.

 The shared directory devops just can be used by clients in domain11.example.com

3.

 The shared directory devop must be able to be browsed

4.

 User silene must be able to access this share through read, access code is redhat

5.

 User akira must be able to access this share through read and write, access code is redhat

6.

 This share permanently mount to system2. domain11.example.com the user /mnt/dev, make user silene as authentication any users can get temporary write permissions from akira

A. explanation

Correct Answer: A

system1

```
mkdir /devops
chcon -R -t samba_share_t /devops/
chmod o+w /devops/
vim /etc/samba/smb.conf
[devops]
        path = /devops
        hosts allow = 172.24.11.
        browseable = yes
        writable = no
        write list = akira
:wq
systemctl restart smb
smbpasswd -a silene
smbpasswd -a akira
```

system2:

```
mkdir /mnt/dev
smbclient -L /system1/ -U silene
vim /etc/fstab
//system1/devops /mnt/dev cifs
defaults,multiuser,username=silene,password=redhat,sec=ntlmssp 0 0
df -hT
```

Switch to user akira on the system2, access to /mnt/dev and view files

su akira cd /mnt/dev ls cifscreds add system1 touch 1

QUESTION 12

SIMULATION

Write a script /root/program. The request is when you input the kernel parameters for script, the script should return to user. When input the user parameters, the script should return to kernel. And when the script has no parameters or the parameters are wrong, the standard error output should be "usage:/root/program kernel|user".

A. explanation

Correct Answer: A

```
# vim /root/program
# !/bin/bash


  if [ $# -ne 1 ];then
    echo "usage:/root/program kernel|user"
  else
      if [ "$1" -eq "kernel"];then
        echo "user"
      elif ["$1" -eq "user"];then
        echo "kernel"
          else
        echo "usage:/root/program kernel|user"
        fi
  fi
```

Test:

```
# chmod a+x /root/program
    .root/program kernel
  ./root/program user
  ./root/program lll
```

QUESTION 13

SIMULATION

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Part of the requirements include host security, ensure your host security limit does not prevent the request to allow the host and network, although you correctly configured the network service but would have to allow the host or network is

blocked, this also does not score.

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Create a script

Create a script named /root/foo.sh on the system1, make it provide the following characteristics:

1.

 When running /root/foo.sh redhat, the output is fedora

2.

 When running /root/foo.sh fedora, the output is redhat

3.

When there is no parameter or parameter is not redhat or fedora, the following information will be generated by the error output: /root/foo.sh redhat:fedora

A. explanation

Correct Answer: A

```
cd ~
vim foo.sh
#~/bin/bash
case $1 in
        redhat)
                echo fedora
                ;;
        fedora)
                echo redhat
                ;;
        *)
                echo 'root/foo.sh redhat:fedora'
esac
:wq
chmod +x foo.sh
./foo.sh redhat
./foo.sh fedora
./foo.sh 1
```

QUESTION 14

SIMULATION

Configure the samba server, share /common, which can be browsed. The user harry can only read it. If it is needed, the password for harry is harryuser.

A. explanation

Correct Answer: A

```
# yum install -y samba samba-common samba-client
# chkconfig smb on
# chkconfig nmb on          (nmb is a dependency of smb to resolve netbios)
# service smb start
# service nmb start


# useradd harry
# smbpasswd -a harry
# mkdir /common
# vim /etc/samba/smb.conf
    [common]
        comment = common
        path = /common
        browseable = yes
        valid user = harry
        read only = yes


testparm
  # getsebool -a |grep samba_share_nfs
  # setsebool -P samba_share_nfs=1
  # chcon -R --reference=/var/spool/samba/ /common/
  # services smb restart
  # mount -t cifs //172.16.30.5/common /mnt -o
  username=harry,password=harryuser
  # smbclient //172.24.50.5/common -U harry
```

QUESTION 15

SIMULATION

According to the following requirements, deploy your ftp login rule:

Users in example.com domain must be able to login to your ftp server as an anonymous user.

But users outside the example.com domain are unable to login to your server

A. explanation

Correct Answer: A

```
[root@server1 ~]# grep vsftpd /etc/hosts.deny
vsftpd: .example.com

[root@server1 ~]# grep vsftpd /etc/hosts.deny
vsftpd:ALL

/etc/vsftpd/vsftpd.conf:
anonymous_enable=YES
```

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