



# EX300<sup>Q&As</sup>

Red Hat Certified Engineer (RHCE)

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## QUESTION 1

### SIMULATION

#### RHCE Test Configuration Instructions

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

system1.group3.example.com: is one of the main sever. system2.group3.example.com: mainly used as a client.  
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

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

for this domain, this domain provides the following user account:

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.

PS: Notice that some test questions may depend on other exam questions, for example, you might be asked to perform a series of restrictions on a user, but this user creation may be required in other questions. For convenient identification, each exam question has some radio buttons to help you identify which questions you have already completed or not



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

#### Configure Security Web Service

Configure a TLS encryption for the site <http://system1.domain11.example.com>, encrypt/, get a signed certificate from <http://host.domain11.example.com/materials/system1.crt>. Get the certificate key from <http://host.domain11.example.com/materials/system1.key>. Get the signature authorization information of the certificate from <http://host.domain11.example.com/materials/domain11.crt>

Correct Answer: Please see explanation

Explanation:

## QUESTION 2

### SIMULATION

Deploying your exam system: link to the iscsi target in the [instructor.example.com](http://instructor.example.com) and distinguish it well, then format as ext3 file system. You must be able to mount the file system of the iscsi target to the /mnt/ iscsi directory in your own system and make this file system can automatically mount (permanently mount) after system restart.

Correct Answer: Please see explanation

Explanation:

```
[root@server1 ~]# iscsiadm --mode discoverydb --type sendtargets --portal
instructor.example.com --discover
192.168.0.254:3260,1 iqn.2010-09.com.example:rdisks.server1
[root@server1 ~]# iscsiadm --mode node -targetname
iqn.2010-09.com.example:rdisks.server1
--portal instructor.example.com --login
Logging in to [iface:default, target:
iqn.2010-09.com.example:rdisks.server1, portal:
192.168.0.254,3260] (multiple)
Login to [iface:default, target:
iqn.2010-09.com.example:rdisks.server1, portal:
192.168.0.254,3260] successful.
```

Note: This part also needs to be formatted and modify /etc/fstab mount -

## QUESTION 3

which questions you have already completed or not completed. Certainly, you do not need to care these buttons if you don't need them.



Configure the SSH Access as required:

Users can visit your two virtual machine systems via clients of domain group3.example.com through SSH remote.

Correct Answer: Please see explanation

Explanation:

Solution 1:

Modify file /etc/hosts.allow Add a line: sshd: 172.24.11. Modify file /etc/hosts.deny Add a line: sshd: 172.25.0.

Both of them need to be configured.

Solution 2:

Add a firewall

firewall-cmd --zone=block --add-source=172.25.11.0/24 --permanent firewall-cmd--reload

Both of them need to be configured

---

#### QUESTION 4

##### 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

Correct Answer: Please see explanation

Explanation:



```
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 5

### SIMULATION

There were two systems:

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

system2, some configuration here

Configure SCSI storage.

Create a new 1 GB target on your serverX.example.com

The block device name should be data\_block

The server should export an iscsi disk called iqn.2014-10.com.example:serverX

This target should only be allowed to desktop

Correct Answer: Please see explanation

Explanation:



```
yum install -y targetcli
systemctl start target
systemctl enable target
firewall-cmd --permanent --add-port=3260/tcp
firewall-cmd -reload

#targetcli
backstores/block/create data-block /dev/sdb1
iscsi/ create iqn.2014-10.com.example:server1
cd iscsi/iqn.2014-10.com.example:server1/tpg1/
acls create iqn.2014-10.com.example:desktop1
luns/ create backstores/block/data_block
portals Server_IP(172.25.x.11) 3260
exit
```

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