EX300 Q&As

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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

SSH configuration.

Configure SSH access on your virtual hosts as follows.

Clients within my22ilt.org should NOT have access to ssh on your systems

Correct Answer: Please see explanation

Explanation:

```
# vim /etc/hosts.deny
sshd: .my22ilt.org
```

Save and Exit (:wq) Then run this:

```
systemctl restart sshd
```

Optional:

```
systemctl enable sshd
firewall-cmd --permanent --add-service=ssh
firewall-cmd --reload
```

Optional:

QUESTION 2

SIMULATION

There were two systems:

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

system2, some configuration here

Webserver.

Implement a webserver for the site http://serverX.example.com

Download the webpage from http://station.network0.example.com/pub/rhce/rhce.html

Rename the downloaded file in to index.html

Copy the file into the document root

Do not make any modification with the content of the index.html

Clients within my22ilt.org should NOT access the webserver on your systems

Correct Answer: Please see explanation

Explanation:

```
yum install httpd httpd-manual

systemctl start httpd
systemctl enable httpd

firewall-cmd --permanent --add-service=http
firewall-cmd –reload


wget http://station.network0.example.com/pub/rhce/rhce.html

mv rhce.html /var/www/html/index.html

cd /etc/httpd/conf.d/

vim server1.conf

<VirtualHost *:80>
ServerAdmin webmaster@server1.example.com
ServerName server1.example.com
DocumentRoot /var/www/html
CustomLog "logs/server1_access_log" combined
ErrorLog "logs/server1_error_log"
</VirtualHost>

<Directory "/var/www/html">
<RequireAll>
        Require all granted
        Require not host my22ilt.org
</RequireAll>
</Directory>


systemctl restart httpd
```

QUESTION 3

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: Please see explanation

Explanation:

```
1. vi /etc/sysconfing/network
NETWORKING=yes
HOSTNAME=station?.example.com
GATEWAY=192.168.0.254
2. service network restart
Or
1. 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
2. ifdown eth0
3. ifup eth0
```

QUESTION 4

SIMULATION

Whoever creates the files/directories on /storage group owner should be automatically should be the same group owner of /storage.

Correct Answer: Please see explanation

Explanation:

1.

chmod g+s /storage

2.

Verify using: ls -ld /storage

Note:

Permission should be like: drwxrws--- 2 root sysusers 4096 Mar 16 18:08 /storage 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 5

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: 172.24.3.5system2.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 SELINUX

Modify the state of selinux to Enforcing mode.

Use VIM /etc/selinux

Correct Answer: Please see explanation

Explanation:

```
getenforce    // View the current SELINUX mode
setenforce  1    // Sets the selinux temporarily to enforcing mode
vim /etc/selinux/config
SELINUX=enforcing
:wq
getenforce
enforcing
```

QUESTION 6

SIMULATION

In accordance with the following requirements, share /common directory through smb service. -- your sub service must be in the SAMBA working-set -- the shared name of common is common -- the common share just can be shared by the customers in the example.com domain -- the common must be available for browsing -- mary must be able to login to the SMB share and for read operation, “password” is the secret code if it need to be verified.

Correct Answer: Please see explanation

Explanation:

```
[root@server1 iscsi]# grep -v "^\s*#" /etc/samba/smb.conf
| grep -v
"^\s*;" | grep -v "^\s*$"
[global]
workgroup = SAMBA
server string = Samba Server Version %v
hosts allow = 127. 192.168.0.
security = user passdb
backend = tdbsam
[common]
comment = Public
Stuff path = /common
public = no
browseable = yes
printable = no read
only = mary

Add SMB Mary users
smbpasswd -a mary
Modify the security context of /common directory
chcon -R -t samba_share_t /common
```

QUESTION 7

SIMULATION

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

Correct Answer: Please see explanation

Explanation:

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

QUESTION 8

SIMULATION

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

Correct Answer: Please see explanation

Explanation:

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

QUESTION 9

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

Correct Answer: Please see explanation

Explanation:

QUESTION 10

SIMULATION

There were two systems:

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

system2, some configuration here

Configure repository.

Create a Repository for your virtual machines. The URL is http://station.network.0.example.com/content/

rhel7.0/x86_64/dvd

Correct Answer: Please see explanation

Explanation:

```
# vim /etc/yum.repos.d/local.repo

[localrepo]
name = Local Repo for RHCE Exam
baseurl = http://station.network0.example.com/content/rhel7.0/x86_64/dvd
gpgcheck = 0
enabled = 1
```

Save and Exit (:wq) Then run this:

```
# yum clean all
# yum repolist
```

QUESTION 11

SIMULATION

There are Mail servers, Web Servers, DNS Servers and Log Server. Log Server is already configured. You should configure the mail server, web server and dns server to send the logs to log server.

Correct Answer: Please see explanation

Explanation:

According to question, log server is already configured. We have to configure the mail, web and dns server

for log redirection. In mail, web and dns server:

1.

vi /etc/syslog.conf mail.* @logserveraddress

2.

service syslog restart

mail is the facility and * means the priority. It sends logs of mail services into log server.

QUESTION 12

SIMULATION

There were two systems:

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

system2, some configuration here

MariaDB

Restore a database on serverX from the backup file http://classroom.com/pub/rhce/backup.mdb

The database name should be Contacts. It should be access only within the localhost

Set a password for root user as “Postroll”. Other than the root user, the user Andrew is able to read the query from the above mentioned database. The user should be authenticated with the password as “Postroll”.

Correct Answer: Please see explanation

Explanation:

```
yum groupinstall -y mariadb mariadb-client
systemctl start mariadb
systemctl enable mariadb
(We don't need to open firewall port because it says that only
access from localhost)
mysql secure installation
wget http://classroom.example.com/pub/rhce/backup.mdb
mysql -u root -p
CREATE DATABASE Contacts;
CREATE USER andrew@localhost IDENTIFIED BT 'Postroll';
GRANT SELECT ON Contacts.* TO andrew@localhost;
mysql -u root -p Contacts<backup.mdb
```

QUESTION 13

SIMULATION

There were two systems:

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

system2, some configuration here

Dynamic Webpage Configuration.

Configure website http://wsgiX.example.com:8961 on system1 with the documentroot /var/www/scripts

Site should execute webapp.wsgi

Page is already provided on http://classroom.example.com/pub/webapp.wsgi

Content of the script should not be modified

Correct Answer: Please see explanation

Explanation: Verification from Server2:

```
yum install -y mod_wsgi

mkdir –p /var/www/scripts
cd /var/www/scripts
wget http://classroom.example.com/pub/webapp.wsgi
restorecon –Rv /var/www/scripts

vim /etc/httpd/conf/httpd.conf

Listen 8961

vim /etc/httpd/conf.d/wsgi1.conf

<VirtualHost *:8961>
ServerAdmin webmaster@wsgi1.example.com
ServerName wsgi1.example.com
DocumentRoot /var/www/scripts # We don't need it,only testing
WSGIScriptAlias / /var/www/scripts/webapp.wsgi
CustomLog "logs/wsgi_access_log" combined
ErrorLog "logs/wsgi_error_log"
</VirtualHost>

<Directory "/var/www/scripts">
AllowOverride None
# Allow open access:
Require all granted
</Directory>

firewall-cmd --permanent --add-port=8961/tcp
firewall-cmd --reload

semanage port -a -t http_port_t -p tcp 8961

systemctl status httpd
```

```
yum install -y elinks
links --dump http://wsgi1.example.com:8961
Should present with the desired page
```

QUESTION 14

SIMULATION

Give Full Permission to owner user and owner group member but no permission to others on /data.

Correct Answer: Please see explanation

Explanation:

We can change the permission of file/directory either character symbol method or numeric method. Permission: r-Read w-Write x-Execute Permission Category u- Owner User g- Owner Group o- Others Operators + -> Add the Permissions - ->Remove the Permissions = ->Assign the Permissions Numeric Method: 4 -> Read 2 -> Write 1 -> Execute Total: 7, total for owner user, owner group member and for others: 777

1.

chmod u+rwx /data

2.

chmod g+rwx /data

3.

chmod o-rwx /data or chmod 770 /data

4.

Verify the /data: ls -ld /data 5 .You will get drwxrwx---

QUESTION 15

SIMULATION

There were two systems:

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

system2, some configuration here

Customize the User Environment

Create a command called qstat on both serverX and desktop.

It should be able to execute the following command (ps –eo pid, tid, class, rtprio, ni, pri, psr, pcpu, stat, wchan:14, comm).

The command should be executable by all users.

Correct Answer: Please see explanation

Explanation:

```
vim/etc/bashrc
alias qstat='ps -eo pid,tid,class,rtprio,ni,pri,psr,pcpu,stat,wchan:14,comm'
source /etc/bashrc
```