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QUESTION 1

SIMULATION

Create the directory /storage and group owner should be the sysusers group.

Correct Answer: Please see explanation

Explanation:

`chgrp sysusers /storage`

Verify using `ls -ld /storage` command.

You should get like `drwxr-x--- 2 root sysusers 4096 Mar 16 17:59 /storage` `chgrp` command is used to change the group ownership of particular files or directory.

Another way you can use the `chown` command.

`chown root:sysusers /storage`

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



```
yum install -y mariadb*
systemctl start mariadb
systemctl enable mariadb
cd /
wget http://rhgls.domain11.example.com/materials/users.mdb
mysql
create database Contacts;
show databases;
use Contacts
source /users.mdb
show tables;

grant select    on Contacts .* to Luigi@'localhost' identified by
'redhat';
exit
mysqladmin -uroot -p password 'redhat'
mysql -uroot -p Enter password redhat
mysql -uLuigi -p Enter password redhat
```

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.

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 in Shanghai at the same time?

Correct Answer: Please see explanation

Explanation:



```
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 4

SIMULATION Prevent Mary from performing user configuration tasks in your system.

Correct Answer: Please see explanation

Explanation:



```
Modify the /etc/cron.deny, add:
[root@server1 ~]# cat /etc/cron.deny
mary
```

Conclusions:

1. I find that it is common to add various service access limits in the exam RHCE. The exercises like: require one network segment can be accessed another network segments can not be accessed, the following are some conclusions for various service:

tcp_wrappers:/etc/hosts.allow,/etc/hosts.deny

tcp_wrappers can filter the TCP\\'s accessing service. TCP whether has the filtering function which depends on this service whether use the function library of tcp_wrappers, or this service whether has the xinetd process of starting function of tcp_wrappers. tcp_wrappers\\'s main configuration file is /etc/hosts.allow,/etc/hosts.deny.

And the priority of the documents in hosts. allow is higher than hosts. deny. Visit will be passed if no match was found.

sshd,vsftpd can use the filtering service of tcp_wrappers.



```
sshd:.example.com 192.168.0. 192.168.0.0/255.255.255.0 150.203.  
EXCEPT 150.203.6.66
```

Configuration example:

Notice: The two configuration files' syntax can refer to hosts_access (5) and hosts_options(5) sshd_config. There are four parameters in this configuration file: DenyUsers, AllowUsers, DenyGroups, AllowGroups, they are used to limit some users or user groups to proceed Remote Login through the SSH. These parameters' priority level is DenyUsers->AllowUsers->DenyGroups->AllowGroups

```
AllowUsers tim rain@192.168.1.121 kim@*.example.com
```

Configuration example:

httpd Service

Through the /etc/httpd/conf/httpd.conf in parameters, can add to control the url access. Just as:

```
<VirtualHost *:80>  
  
DocumentRoot /var/http/virtual  
  
ServerName www1.example.com  
  
<Directory /var/http/virtual/limited>  
  
Options Indexes MultiViews FollowSymlinks  
  
order deny,allow  
  
deny from all  
  
allow from 192.168.0.  
  
</Directory>  
  
</VirtualHost>
```

Notice:

So pay attention, deny's and allow's priority level in order deny,allow is: the backer has the higher priority level. But here, allow's priority has a higher priority level.



nfs Service

nfs service directly control the visits through file /etc/exports, just as:

```
/common *.example.com(rw,sync) 192.168.0.0/24(ro,sync)
```

samba Service

Parameter hosts allow in /etc/samba/smb.conf which is used as Access Control, just as:

```
hosts allow = 192.168.0. 192.168.1.0/255.255.255.0 .example.com
```

2. Paying attention to use Mount parameters: _netdev,defaults when you are mounting iSCSI disk.

3. Stop the NetworkManager

/etc/init.d/NetworkManager stopchkconfig NetworkManager off

4. When you are deploying ifcfg-ethX, add parameters:

PEERDNS=no

5. Empty the firewall in RHCSA?RHCE:

6. Narrow lv steps:

7. Mount the using command - swap which is newly added in /etc/fstab

8. If Verification is not passed when you are installing software, can import public key: rpm import /etc/pki/rpm.../...release and so on. In yum.repo, you also can deploy gpgkey, for example, gpgkey=/etc/pki/rpm.../ ...release

9. When you are using "Find" command to search and keep these files, paying attention to use cp -a to copy files if you use user name and authority as your searching methods.

```
iptables -F
```

```
iptables -X
```

```
iptables -Z
```

```
/etc/init.d/iptables save
```




```
1.umount /dev/mapper/lv  
  
2.e2fsck -f /dev/mapper/lv  
  
3.resize2fs /dev/mapper/lv 100M  
  
4.lvreduce -L 50M /dev/mapper/lv  
  
5.mount -a
```

QUESTION 5

SIMULATION

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Customize the User Environment

Create a custom command on system1 and system2 named as qstat, and this custom command will execute the following command:

```
/bin/ps -Ao pid,tt,user,fname,rsz
```

This command is valid for all users in the system.

Correct Answer: Please see explanation

Explanation:

```
vim /etc/bashrc //Restart remain valid
alias qstat=' /bin/ps -Ao pid, tt, user, fname,
rsx'
:wq
source /etc/bashrc
alias //Check if there is qstat
qstat
```

// You need to configure that on both two systems -

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