



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

Red Hat Certified Engineer (RHCE)

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**QUESTION 1**

## SIMULATION

In accordance with the following requirements to deploy ssh login service: harry belongs to example.com which can remote login your systems. However, users of remote.test cannot use ssh login to your machine.

A. explanation

Correct Answer: A

```
[root@server1 ~]# grep sshd /etc/hosts.allow
sshd:.example.com
[root@server1 ~]# grep sshd /etc/hosts.deny
sshd:.remote.test
```



Notice:

tcp\_wrappers has two configuration files and their priority level is /etc/hosts.allow->/etc/hosts.deny

---

**QUESTION 2**

## 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.

A. explanation

Correct Answer: A

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 3**



```
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
```



## 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 atenth

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.

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.

Create a script to add users

Create a script named /root/mkusers on the system1, this script can achieve to add local users for the system1, and user names of these users are all from a file which contains the usernames list, and meet the following requirements at the same time:

1.

This script is required to provide a parameter; this parameter is the file which contains the usernames list

2.

This script need provide the following message: Usage /root/mkusers if it does not provide a parameter, then exit and return the corresponding value

3.

This script need provide the following message: Input file not found if it provides a name that does not exist, then exit and return the corresponding value

4.

Create a user shell log into /bin/false

5.

This script does not need to set password for users



6.

You can get the usernames list from the following URL as a test: <http://rhgls.domain11.example.com/materials/userlist>

A. explanation

Correct Answer: A

```
vim mkusers.sh // Please note the white space
#!/bin/bash
if [ $# -eq 0 ];then
    echo 'Usage:/root/mkusers'
    exit 1
fi
if [ ! -f $1 ]; then

    echo 'Input file not found'
    exit

fi
while read line
do
    useradd -s /bin/false $line
done < $1
:wq
chmod +x mkusers.sh
wget http://rhgls.domain11.example.com/materials/userlist
./mkusers.sh userlist
id username // Check whether the user is added
// Then check the result whether meet the requirements of the subject
```



#### QUESTION 4

#### 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.

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krishna (password: atenorth)
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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.

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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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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

A. explanation

Correct Answer: A



```
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 5

### 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

A. explanation

Correct Answer: A

```
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/wsgi.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"
```





</VirtualHos>

<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



Verification from Server2:

**yum install -y elinks**

**links --dump http://wsgil.example.com:8961**

**Should present with the desired page**



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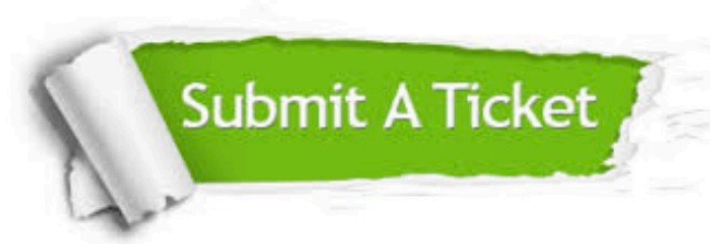
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