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Vendor:RedHat

Exam Code:RHCE

Exam Name:Red Hat Certified Engineer — RHCE

Version:Demo

QUESTION 1

SIMULATION

Make Secondary belongs the jeff and marion users on sysusers group. But harold user should not belongs to sysusers group.

A. explanation

Correct Answer: A

1.

```
usermod -G sysusers jeff
```

2.

```
usermod -G sysuser marion
```

3.

Verify by reading /etc/group file

Note:

Using usermod command we can make user belongs to different group. There are two types of group one primary and another is secondary. Primary group can be only one but user can belong to more than one group as secondary.

`usermod -g groupname username` - To change the primary group of the user. `usermod -G groupname username` - To make user belongs to secondary group.

QUESTION 2

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 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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Configure the Virtual Host.

Expand your web server on the system1, create a virtual host for the site

<http://www.domain11.example.com> then perform the following steps:

- 1.

Set the DocumentRoot to /var/www/virtual from <http://rhgls.domain11.example.com/materials/www.html>

2.

Download a file, rename as index.html, don't modify file index.html content

3.

Put the file index.html under the directory DocumentRoot of Virtual Host

4.

Ensure that user Andy can create files under directory /var/www/virtual

Note: original site <http://system1.domian11.example.com/> must still be able to be accessed.

Name server domain11.example.com provide the domain name resolution for host name of www.domain11.example.com

A. explanation

Correct Answer: A

```
mkdir -p /var/www/ virtual
cd /var/www/ virtual
wget -O index.html
http://rhgls.domain11.example.com/materials/www.html
vim /etc/httpd/conf/httpd.conf
<virtualhost *:80>
documentroot /var/www/virtual
servername www.domain11.example.com
</virtualhost>
setfacl -m u:andy:rwx /var/www/virtual
su andy
touch /var/www/virtual/11.html
```

QUESTION 3

SIMULATION

There were two systems: system1, main system on which most of the configuration take place system2, some configuration here SMTP Configuration. Configure the SMTP mail service on serverX and desktopX which relay the mail only from local system through station.network0.example.com, all outgoing mail have their sender domain as example.com. Ensure that mail should not store locally. Verify the mail server is working by sending mail to a natasha user. Check the mail on both serverX and desktopX with the below URL <http://station.network0.example.com/system1> <http://station.network0.example.com/system2>

A. explanation

Correct Answer: A

```
vim /etc/postfix/main.cf
inet_interfaces = loopback-only

mydestination =
muorigin=example.com
mynetworks = 127.0.0.0/8, [::1]/128
relayhost = [station.network0.example.com]
local_transport = error: local delivery dosabled
```

QUESTION 4

SIMULATION

RHCE Test Configuration Instructions

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

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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:

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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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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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Dynamic WEB content Configure dynamic web content to provide on the system1, as required: Dynamic content provided by a virtual machine named dynamic.domain11.example.com

Virtual host listening on port 8909 Download a script from <http://rhgls.domain11.example.com/materials/webapp.wsgi>, then put it in the right place, don't modify the file content in any situations Dynamically generated web page should be received when clients access <http://dynamic.domain11example.com:8909>. This <http://dynamic.domain11.example.com:8909/> must be able to be accessed by all system of domain11.example.com

A. explanation

Correct Answer: A

```
yum -y install mod_wsgi
vim /etc/httpd/conf/httpd.conf
Listen 80
Listen 8909
    <virtualhost *:8909>
        servername dynamic.domain11.example.com
WSGIScriptAlias //var/www/html/webapp.wsgi // Please note the uppercase letters
</virtualhost>
cd /var/www/html
wget http://rhgls.domain11.example.com/materials/webapp.wsgi
```

Rich Rule

Please enter a rich rule.

For host or network white or blacklisting deactivate the element.

Family:

Element:

Action: with Type:
 With limit: /

Source: inverted

Destination: inverted

Prefix:

Log: Level:

With limit: /

Audit: With limit: /

Cancel

OK

```
systemctl restart firewalld  
semanage port -a -t http_port_t -p tcp 8909  
systemctl restart httpd
```

QUESTION 5

SIMULATION

RHCE Test Configuration Instructions

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Implement/configure a Web Service.

Configure a site <http://system1.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
```

The screenshot shows the 'Firewall Configuration' window. At the top, the 'Configuration' dropdown is set to 'Permanent'. Below this, there are tabs for 'Zones' and 'Services'. A descriptive paragraph explains that a firewall zone defines trust levels for network connections, interfaces, and source addresses, combining services, ports, protocols, masquerading, port/packet forwarding, ICMP filters, and rich rules.

The 'Zone' list on the left includes: block, dmz, drop, external, home, internal, **public** (highlighted), trusted, and work. The 'Rich Rules' tab is selected, showing a table with columns: Family, Action, Element, Src, Dest, log, and Audit. Below the table are 'Add', 'Edit', and 'Remove' buttons.

At the bottom of the window, the status bar shows: 'Connected.' on the left and 'Default Zone: public Lockdown: disabled Panic Mode: disabled' on the right.

Rich Rule

Please enter a rich rule.
For host or network white or blacklisting deactivate the element.

Family: ipv4 ▾

✓ Element: service ▾ http

✓ Action: accept ▾ with Type: icmp-host-prohibited ▾

With Limit: / second ▾

Source: 172.24.11.0/24 inverted

Destination: inverted

Prefix:

✓ Log: Level: warning ▾

With Limit: / second ▾

Audit: With Limit: / second ▾

systemctl restart firewalld

QUESTION 6

SIMULATION

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

A. explanation

Correct Answer: A

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 7

SIMULATION

Shutdown the `/root/cdrom.iso` under `/opt/data` and set as boot automatically mount.

A. explanation

Correct Answer: A

```
# cd /opt/
# mkdir data
# mount -t iso9660 -o loop /root/cdrom.iso /opt/data
# vim /etc/fstab
    /root/cdrom.iso /opt/data iso9660 defaults,loop 0 0
# mount -a
# mount
```

QUESTION 8

SIMULATION

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Configure IPV6 Address

Configure interface eth0 on your test system, using the following IPV6 addresses: 1) The address of system1 should be 2003:ac18::305/64

(2)

The address of system2 should be 2003:ac18::30a/64

(3)

Both two systems must be able to communicate with systems in network 2003:ac18/64 (4) The address must still take effect after restart

(5)

Both two systems must maintain the current Ipv4 address and can communicate

A.

explanation

Correct Answer: A

```
nmcli con mod eth0 ipv6.addresses "2003:ac18::305/64"  
nmcli con mod eth0 ipv6.method manual  
systemctl restart network
```

```
nmcli con mod eth0 ipv6.addresses "2003:ac18::30a/64"  
nmcli con mod eth0 ipv6.method manual  
systemctl restart network
```

```
ping6 2003:ac18::30a
```

QUESTION 9

SIMULATION

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

Script2. Create a script on serverX called /root/createusers When this script is called with the argument, it should add all the users from the file Download the file from <http://station.network0.example.com/pub/testfile> All users should have the login shell as /bin/false, password not required When this script is called with any other argument, it should print the message as "Input File Not Found" When this script is run without any argument, it should display "Usage:/root/createusers" NOTE: if the users are added no need to delete

A. explanation

Correct Answer: A

```
cd /root
wget [url="http://station.network0.example.com/pub/testfile"]http://station.network0.example.com/pub/testfile[.url]

vim /root/createusers

#!/bin/bash
a=""
case $@ in
    testfile)

        for user in $(cat $1);do
            echo "Adding this user:" $user
            useradd -s /bin/false $user
        done
        ;;
    $a)
        echo "Usage: /root/createusers"
        ;;
    *)
        echo "Input File Not Found"
        ;;
esac

chmod +x /root/createusers
```

QUESTION 10

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 11

SIMULATION

Make on /storage directory that only the user owner and group owner member can fully access.

A. explanation

Correct Answer: A

1.

```
chmod 770 /storage
```

2.

Verify using : `ls -ld /storage`

Note:

Preview should be like: `drwxrwx--- 2 root sysusers 4096 Mar 16 18:08 /storage`

To change the permission on directory we use the `chmod` command. According to the question that only the owner user (root) and group member (sysusers) can fully access the directory so:

```
chmod 770 /archive
```

QUESTION 12

SIMULATION

RHCE Test Configuration Instructions

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Configure Link Aggregation Configure a link between system1.group3.example.com and system2. group3.example.com as required: This link uses interfaces eth1 and eth2 This link still can work when one interface failes This link uses the following address 172.16.3.20/255.255.255.0 on system1 This link uses the following address 172.16.3.25/255.255.255.0 on system2 This link remains normal after the system is restarted

A. explanation

Correct Answer: A

If you forget how to write the name, you can search examples in `/var/share/doc/team-1.9/example_configs/`

```
nmcli connection add con-name team0 type team ifname team0 config
 '{"runner":{"name":"activebackup"}}'
nmcli con modify team0 ipv4.addresses '172.16.11.25/24'
nmcli connection modify team0 ipv4.method manual
nmcli connection add type team-slave con-name team0-p1 ifname eth1
master team0
nmcli connection add type team-slave con-name team0-p2 ifname eth2
master team0
nmcli connection up team0

nmcli con up team0-p1
nmcli con up team0
```