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QUESTION 1

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 2

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 3

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.

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

Correct Answer: Please see explanation

Explanation:

```
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
```



Firewall Configuration

FileOptionsViewHelp

Configuration: Permanent

ZonesServices

A firewall zone defines the level of trust for network connections, interfaces and source addresses bound to the zone. The zone combines services, ports, protocols, masquerading, port/packet forwarding, icmp filters and rich rules. The zone can be bound to interfaces and source addresses.

Zone

blockdmzdropexternalhomeinternalpublictrustedwork

ServicesPortsMasqueradingPort ForwardingICMP FilterRich RulesInterfaces

Here you can set rich language rules for the zone.

Family	Action	Element	Src	Dest	log	Audit
--------	--------	---------	-----	------	-----	-------

AddEditRemove

Connected.Default Zone: publicLockdown: disabledPanic Mode: disabled

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5 / 9



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

Cancel OK

systemctl restart firewalld

QUESTION 4



```
<virtualhost *:80>
documentroot /var/www/html
servername system1.domain11.example.com
</virtualhost>
<virtualhost *:443>
documentroot /var/www/html
servername system1.domain11.example.com
SSLEngine on
SSLCertificateFile /etc/pki/tls/certs/server1.crt
SSLCertificateKeyFile /etc/pki/tls/private/server1.key
SSLCertificateChainFile /etc/pki/tls/certs/domain11.crt
<virtualhost>
systemctl restart httpd
firewall-cmd --add-service=https --permanent
systemctl restart firewalld
```

SIMULATION

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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

Correct Answer: Please see explanation

Explanation:



```
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 5

SIMULATION Configure the web server, which can be accessed by <http://station.domain30.example.com>.

Correct Answer: Please see explanation

Explanation:

```
# yum install -y httpd
# chkconfig httpd on
# cd /etc/httpd/conf/

# vim httpd.conf
    NameVirtualHost 172.24.30.5:80
    <VirtualHost 172.24.30.5:80>
        DocumentRoot /var/www/html/
        ServerName tation.domain30.example.com
    </VirtualHost>
# service httpd restart
```

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