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QUESTION 1



```
# mkdir -p /www/virtual
# cd /www/virtual
# wget http://ip/dir/example.com
# cp example.com index.html
# se manage fcontext -a -t httpd_sys_content_t '/www (/.*)?'
  restorecon -vRF /www
# vim /etc/httpd/conf/httpd.conf      (Add new VirtualHost)
  <VirtualHost 172.24.30.5:80>
  DocumentRoot /www/virtual/
  ServerName www.domain30.example.com
  </VirtualHost>
# chcon -R --reference=/var/www/html/ /www/
# service httpd restart
```

Use elinks to test.

OR

```
# mkdir -p /www/virtual
# cd /www/virtual
# wget http://ip/dir/example.html
# mv example.html index.html
# chcon -R --reference=/var/www/html/ /www/
# ls -ldZ /www/virtual
# vim /etc/httpd/conf/httpd.conf
  NameVirtualHost *:80
  <VirtualHost *:80>
  DocumentRoot /var/www/html/
  ServerName station.domain30.example.com
  </VirtualHost>
  <VirtualHost *:80>
  DocumentRoot /www/virtual/
  ServerName www.domain30.example.com
  </VirtualHost>
# service httpd restart
```





SIMULATION

Download file from <http://ip/dir/restricted.html>, and the local user harry can access it by <http://station.domain30.example.com/restricted.html>, and cannot be accessed by t3gg.com.

A. explanation

Correct Answer: A

```
# cd /var/www/html
# wget http://ip/dir/restricted.htm
# iptables -A INPUT -s 172.25.0.0/16 -p tcp -dport 80 -j REJECT
# service iptables save
```

OR

```
# yum install httpd
# service httpd restart
# chkconfig httpd on
# cd /var/www/html
# wget http://ip/dir/restricted.html
# iptables -A INPUT 172.25.0.0/16 -p tcp --dport 80 -j REJECT
# service iptables save
# service iptables restart
# elinks http://station.domain30.example.com/restricted.html
```



QUESTION 2

SIMULATION

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

Configure IPv6 network. Configure eth0 with a static IPv6 addresses as follows Configure a Static IPv6 address in serverX as fddb:fe2a:ab1e::c0a8:64/64 Configure a Static IPv6 address in desktopX as fddb:fe2a:ab1e::c0a8:02/64 Both machines are able to communicate within the network fddb:fe2a:ab1e/64 The changes should be permanent even after the reboot

On ServerX:



```
nmcli conn show ----> to find the connection name that attaches to the eth0 interface
```

```
nmcli conn modify "System eth0" ipv6.addresses fddb:fe2a:able::c0a8:64/64
nmcli conn modify "System eth0" connection.autoconnect true
nmcli conn modify "System eth0" ipv6.method manual
```

```
nmcli conn down "System eth0"
nmcli conn up "System eth0"
```



On DesktopX:

```
nmcli conn show ----> to find the connection name that attaches to the eth0 interface
```

```
nmcli conn modify "System eth0" ipv6.addresses fddb:fe2a:able::c0a8:02/64
nmcli conn modify "System eth0" connection.autoconnect true
nmcli conn modify "System eth0" ipv6.method manual
```

```
nmcli conn down "System eth0"
nmcli conn up "System eth0"
```



A. explanation

Correct Answer: A

On ServerX:

```
ping6 -T eth0 ddb:fe2a:able::c0a8: [QR]
```

On DesktopX:

```
ping6 -I eth0 fddb:fe2a:able::c0a8 [QR]
```

QUESTION 3

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

A. explanation

Correct Answer: A



```
# 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=
firewall-cmd --reload
```

QUESTION 4

SIMULATION

Configure the nfs server, share the /common directory to domain30.example.com, and allow client to have the root user right when access as a root user.

A. explanation

Correct Answer: A

```
# yum install -y nfs
# chkconfig nfs on
# chkconfig ipcbind on
# vim /etc/exports
    /common 172.24.30.0/255.255.255.0(rw,no_root_squash)
# showmount -e 172.16.30.5
# mount -t nfs 172.16.30.5:/common /mnt (Test)
```



QUESTION 5

SIMULATION

You access the iscsi shared storage. The storage server ip is 172.24.30.100. Separate of 1500M space, format as ext3



file system, mount under /mnt/data, and make sure the root-start automatically mount.

A. explanation

Correct Answer: A

```
# yum install -y iscsi*
# chkconfig iscsid on
# iscsiadm -m discovery -t st -p 172.24.30.100
# iscsiadm -m node -T ign.2011 -p 172.24.30.100 -l
# dmesg|tail
# fdisk /dev/sdb9
#
# mkfs.ext3 /dev/sdb9
# cd /mnt
# mkdir data
# blkid /dev/sdb1 (Check UUID number)
# vim /etc/fstab
    UUID=xxxxxxxxxxxxxxxxxxxx /mnt/data ext3 _netdev,defaults 0
# mount -a
# mount
```

OR

```
# vim /dev/fstab
    UUID=xxxxxxxxxxxxxxxxxxxx /mnt/data ext3 defaults 0
# chkconfig netfs2 on
```



QUESTION 6

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.

A. explanation

Correct Answer: A



```
1. vi /etc/sysconfig/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 7

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.

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 8

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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Mount a NFS Share

Mount a NFS Share to system1.domain11.example.com on the system2, as required:

1.

Mount the /public to the directory /mnt/nfsmount

2.

Mount the /protected to the directory /mnt/nfssecure, in a security way, key download from the following URL: http://host.domain11.example.com/materials/nfs_client.keytab

3.

User deepak can create files in /mnt/nfssecure/project

4.

These file systems automatically hang up when the system is started

A. explanation

Correct Answer: A



system2:

```
showmount -e system1
mkdir -p /mnt/nfsmount
vim /etc/fstab
system1:/public /mnt/nfsmount nfs defaults 0 0
mount -a
df -h
```

```
mkdir /mnt/nfssecure
wget -O /etc/krb5.keytab
http://host.domain11.example.com/materials/nfs_client.keytab
vim /etc/fstab
```

system1:

```
/protected /mnt/nfssecure nfs defaults,sec=krb5p,v4.2 0 0
:wq
mount -a
```



QUESTION 9

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.

Configure a Database

Create a Maria DB database named Contacts on system1 and meet the following requirements at the same time:

1.

The database should contain the contents of the database replication, URL for copying files is:
<http://rhgls.domain11.example.com/materials/users.mdb>

2.

Database just can be accessed by localhost

3.

In addition to the root user, this database only can be searched by user Luigi, user's password is redhat



4.

The password for root user is redhat, does not allow empty password

A. explanation

Correct Answer: A

```
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
```



QUESTION 10

SIMULATION

Create the users named jeff, marion, harold.

A. explanation

Correct Answer: A

1.

```
useradd jeff
```

2.



useradd marion

3.

useradd harold

Note:

useradd command is used to create the user.

All user's information stores in /etc/passwd and user's shadow password stores in /etc/shadow.

QUESTION 11

SIMULATION

There were two systems:

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

system2, some configuration here

Configure selinux.

Configure your systems that should be running in Enforcing.

A. explanation

Correct Answer: A

```
# vim /etc/selinux/config  
SELINUX=enforcing
```



After reboot and verify with this command

```
# getenforce
```



QUESTION 12

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

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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.

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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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.

A. explanation

Correct Answer: A



```
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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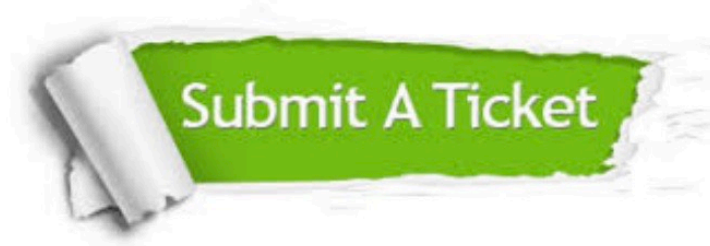
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