Red Hat

EX300 Exam

Red Hat Certified Engineer - RHCE v7

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Version: 9.0

Question: 1

CORRECT TEXT

RHCE Test Configuration Instructions

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

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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:

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krishna (password: atenorth)

sergio  (password: atenorth)

kaito   (password: atenorth)
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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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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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Configure SELINUX

Modify the state of selinux to Enforcing mode.

Use VIM /etc/selinux

Answer:

```
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: 2

CORRECT TEXT

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Configure the SSH Access as required:

Users can visit your two virtual machine systems via clients of domain group3.example.com through SSH remote.

Answer:

Solution 1:
Modify file /etc/hosts.allow
Add a line: sshd: 172.24.11.

Modify file /etc/hosts.deny
Add a line: sshd: 172.25.0.
Both of them need to be configured.
Solution 2:
Add a firewall
firewall-cmd –zone=block --add-source=172.25.11.0/24 --permanent firewall-cmd –reload
Both of them need to be configured

Question: 3

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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 - Aopid,tt,user,fname,rsz

This command is valid for all users in the system.

Answer:

```
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 -

Question: 4

CORRECT TEXT

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Configure port forwarding on the system1, as required:

1. The systems in the network 172.24.11.0/24, local port 5423 for accessing system1 will be forwarded to 80

(2) This setting must be permanent

	Answer:

Use Graphical interface to configure
Use firewall-config to open the Graphical interface in CLI
Adjust the configuration: drop-down menu to permanent
Add a strategy to the public area of the "Port Forwarding"

Port Forwarding

Please select the source and destination options according to your needs.

Source

Protocol: tcp ⌄

Port / Port Range: 5423

Destination

If you enable local forwarding, you have to specify a port. This port has to be different to the source port.

☑ Local forwarding

☐ Forward to another port

IP address:

Port / Port Range: 80

Cancel   OK

systemctl restart firewalld.service // Reload the firewall strategy

Question: 5

CORRECT TEXT
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Configure Link Aggregation

Configure a link between systeml.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 systeml
- 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
-

Answer:

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
```

Question: 6

CORRECT TEXT

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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

Answer:

Solution:

```
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: 7

CORRECT TEXT

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Configure the Local Mail Service

Configure the mail service on system1 and system2, as required:

1. These systems do not accept external sending mails

2. Any mails sent locally are automatically routed to rhgls.domain11.example.com

3. Mails sent from these systems will be displayed from rhgls.domain11.example.com

4. You can send mail to local user 'arthur' to test your configuration system rhgls.domain11.example.com

5. You have already configured this user's mail to the following URL rhgls.domain11.example.com/received_mail/11

	Answer:

solution

```
postconf -e local_transport=err:XX
vim /etc/postfix/main.cf
relayhost=[rhgls.domain11.exmaple.com]
postconf -e myorigin=domain11.example.com
systemctl restart postfix
echo aaa | mail -8 hello dave
```

Open rhgls.domain11.example.com/received_mail/11 in a browser

Question: 8

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Share directories via SMB.

Configure the SMB service on the system1.

Your SMB server must be a member of the STAFF Working Group.

Share the folder /common and the name must be common.

Only clients of domain11.example.com can access the common share.

Common must be able to browse.

User Andy must be able to read the content of the share, if necessary, verification code is redhat.

Answer:

system1:

```
yum -y install samba samba-client
firewall-cmd --add-service=samba --permanent
firewall-cmd --add-service=mountd -permanent
systemctl restart firewalld
vim /etc/samba/smb.conf
workgroup = STAFF
[common]
        path = /common
        hosts allow = 172.24.11.
        browseable = yes
:wq
mkdir /common
chcon -R -t samba_share_t  /common/
smbpasswd -a andy
systemctl start smb
systemctl enable samba
```

system2:

```
yum install -y cifs-utils samba-client
```

Question: 9

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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 Multi-User SMB Mounts.

Share the directory /devops through SMB on the systeml, as required:

1. The share name is devops

2. The shared directory devops just can be used by clients in domain11.example.com

3. The shared directory devop must be able to be browsed

4. User silene must be able to access this share through read, access code is redhat

5. User akira must be able to access this share through read and write, access code is redhat
6. This share permanently mount to system2. domain11.example.com the user /mnt/dev, make user silene as authentication any users can get temporary write permissions from akira

_____   **Answer:**

system1:

```
mkdir /devops
chcon -R -t samba_share_t /devops/
chmod o+w /devops/
vim /etc/samba/smb.conf
[devops]
        path = /devops
        hosts allow = 172.24.11.
        browseable = yes
        writable = no
        write list = akira
:wq
systemctl restart smb
smbpasswd -a silene
smbpasswd -a akira
```

system2:

```
mkdir /mnt/dev
smbclient -L /system1/ -U silene
vim /etc/fstab
//system1/devops /mnt/dev cifs
defaults,multiuser,username=silene,password=redhat,sec=ntlmssp 0 0
df -hT
```

Switch to user akira on the system2, access to /mnt/dev and view files
suakira cd /mnt/dev
lscifscreds add
system1 touch 1

https://www.certkillers.net

Question: 10

CORRECT TEXT

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.

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 NFS service

Configure the NFS service on the system1, as required:

1. Share the directory /public in read only way, just can be accessed by systems in domain11.example.com at the same time.

2. Share the directory /protected in rad and write way, Kerberos security encryption required, you can use the key provided by the following URL:

http://host.domain11.example.com/materials/nfs_server.keytab

3. The directory /protected should contain the sub directory named project and the owner name is deepak;

4. User deepak can access /protected/project in read and write ways

Answer:

system1:

```
vim /etc/exports
/protected 172.24.11.0/24(rw,sync,sec=krb5p)
/public 172.24.11.0/24(ro,sync)
wget -O /etc/krb5.keytab
http://host.domain11.example.com/materials/nfs_server.keytab
vim /etc/sysconfig/nfs
RPCNFSDARGS="-V 4.2 "
:wq
systemctl restart nfs
systemctl start nfs-secure-server
systemctl enable nfs-secure-server
exportfs -ra
showmount -e
firewall-cmd --add-service=nfs -permanent
firewall-cmd --add-service=rpc-bind -permanent
firewall-cmd --add-service=mountd-permanent
systemc    tl restart fiewalld
mkdir -p /protected/project
chown deepak /protected/project/
ll /protected/
chcon -R -t public_content_t /protected/project/
```

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