



# Red Hat

## EX300 Exam

### Red Hat Certified Engineer - RHCE v7

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# Version: 9.0

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## Question: 1

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### 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.

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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

RHCE Test Configuration Instructions

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Password for both of the two systems is atenorth

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system2.group3.example.com: 172.24.3.10

The subnet mask is 255.255.255.0

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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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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

---

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:

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The subnet mask is 255.255.255.0

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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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Corresponding distribution packages for the testing using operating system Red Hat

Enterprise Linux version can be found in the following link:

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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 -A o pid,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,
rsz'
:wq
source /etc/bashrc
alias //Check if there is qstat
qstat
```

// You need to configure that on both two systems -

---

### Question: 4

---

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 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:

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krishna (password: atenorth)
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sergio (password: atenorth)
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kaito (password: atenorth)
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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 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**

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**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

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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)
```

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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.

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 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 fails
- 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
- 

---

**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

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 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

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

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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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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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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.exmample.com]
postconf -e myorigin=domain11.example.com
systemctl restart postfix
echo aaa | mail -s hello dave
```

Open rhgls.domain11.example.com/received\_mail/11 in a browser

---

**Question: 8**

---

CORRECT TEXT

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```
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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

---

CORRECT TEXT

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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.

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 Multi-User SMB Mounts.

Share the directory /devops through SMB on the system1, 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
```

---

**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:

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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 read 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
systemctl restart firewalld
mkdir -p /protected/project
chown deepak /protected/project/
ll /protected/
chcon -R -t public_content_t /protected/project/
```

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