



Vendor: Red Hat

Exam Code: EX200

Exam Name: Red Hat Certified System Administrator
(RHCSA) EX200 RHEL 10

Version: DEMO

01. Configure Network Settings

Configure node1 with the following network settings:

Hostname: node1.domain250.example.com
IP address: 172.25.250.100
Subnet mask: 255.255.255.0
Gateway: 172.25.250.254

Solution:

Connect to servera via console for IP modification, then check using the ip addr command.
After confirming no issues, SSH to servera for hostname modification. This way, you can copy the hostname to avoid typos.

```
[root@clear ~] nmcli con show
```

```
[root@clear ~] nmcli con mod 'network configuration name' ipv4.method manual ipv4.addresses 172.25.0.25/24 ipv4.gateway 172.25.0.254 ipv4.dns 172.25.0.254 autoconnect yes
```

```
[root@clear ~] nmcli con up 'network configuration name'
```

```
[root@clear ~] ip a
```

```
[root@clear ~] ssh root@172.25.250.100
```

```
[root@clear ~] hostnamectl set-hostname red.lab0.example.com
```

Verification

```
[root@node1 ~] ip a //Check if the IP is correct
```

```
[root@node1 ~] hostname //Check if the hostname is correct
```

02. Configure your system to use the default repositories.

YUM repositories are available from http://content/rhel9.0/x86_64/dvd/BaseOS and http://content/rhel9.0/x86_64/dvd/AppStream. Configure your system to use these locations as default repositories.

Solution:

```
[root@node1 ~]# vim /etc/yum.repos.d/rhcsa.repo
```

```
[Base]
```

```
name=Base
```

```
baseurl=http://content/rhel9.0/x86_64/dvd/BaseOS
```

```
enabled=1
```

```
gpgcheck=no
```

```
[App]
```

```
name=App
```

```
baseurl=http://content/rhel9.0/x86_64/dvd/AppStream
```

```
enabled=1
```

```
gpgcheck=no
```

Verification

```
[root@node1 ~]# yum repoinfo
```

```
[root@node1 ~]# yum -y install vsftpd
```

03. Debugging SELinux

A web server running on non-standard port 82 encounters issues while serving content. Debug and resolve the problem to meet the following conditions:

- The web server on the system can serve HTML files hosted in /var/www/html (Note: Do not delete or modify existing file contents)
- The web server can serve content on port 82
- The web server can start automatically at system boot

Solution:

```
# Check which package provides the semanage command
[root@node1 ~]# yum provides "*/semanage"
```

```
# Install the semanage command
[root@node1 ~]# yum -y install policycoreutils-python-utils
[root@node1 ~]# semanage port -l |grep http
[root@node1 ~]# semanage port -a -t http_port_t -p tcp 82
```

```
# Alternatively, you can use man semanage port, then search for EXAMPLE.
[root@node1 ~]# systemctl restart httpd
[root@node1 ~]# systemctl enable httpd
```

```
# Verification, seeing the source code indicates correctness (mandatory operation)
[root@node1 ~]# curl http://node1.domain250.example.com:82
```

04. Create Logical Volume

According to the given requirements, create a new logical volume:

- Logical volume named "mylv" belonging to the volume group "myvg" with a size of 50 extents.
- Extent size of logical volumes in volume group "myvg" should be 16 MiB.
- Format the new logical volume with the VFAT filesystem.
- The logical volume should be automatically mounted at /mnt/mydata during system startup.

Create the following user accounts, ensuring the checkboxes are enabled:

- Group named sysmgrs
- User natasha, belonging to the sysmgrs group as a secondary group
- User harry, belonging to the sysmgrs group as a secondary group
- User sarah, with no access to interactive shell on the system and not a member of sysmgrs
- Passwords for natasha, harry, and sarah should all be "flectrag".

Solution:

```
# Check the disk layout
[root@node2 ~]# lsblk
```

```
# Partition the disk
[root@node2 ~]# fdisk /dev/vdb
Welcome to fdisk (util-linux 2.37.4).
Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.
```

Command (m for help): n # Add a new partition
Partition type
 p primary (1 primary, 0 extended, 3 free) # Primary partition
 e extended (container for logical partitions) # Extended partition
Select (default p): p
Partition number (2-4, default 2): # Press Enter
First sector (1026048-20971519, default 1026048): # Press Enter

***Note: The partition size must be larger than the total size, it should not be exactly equal to. It is recommended to add an extra 200M.

Last sector, +/-sectors or +/-size{K,M,G,T,P} (1026048-20971519, default 20971519): +1200M
Partition size

Created a new partition 2 of type 'Linux' and of size 512 MiB.

Command (m for help): w # Save and exit
The partition table has been altered.
Syncing disks.

Create volume group and logical volume
[root@node2 ~]# vgcreate -s 16M myvg /dev/vdb4
[root@node2 ~]# lvcreate -l 50 -n mylv myvg

Install vfat support
[root@node2 ~]# yum provides */mkfs.vfat
[root@node2 ~]# yum -y install dosfstools

Format the logical volume with vfat filesystem
[root@node2 ~]# mkfs.vfat /dev/myvg/mylv

Create mount point
[root@node2 ~]# mkdir /mnt/mydata

Update /etc/fstab for automatic mounting
[root@node2 ~]# vim /etc/fstab
/dev/myvg/mylv /mnt/mydata vfat defaults 0 0

Mount the logical volume
[root@node2 ~]# mount -a

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