

# RHCE Practice Exam #01

These tasks are taken from the objectives Red Hat has publicly posted and should therefore approximate the type of tasks one might find on the RHCE exam. It is expressly NOT based on actual contents of a Red Hat Exam.

You should configure your physical server and three virtual machines as follows:

## Systems Configuration

	Physical Host	vm1	vm2	vm3
Hostname	s<x>host.linux-acc.local	s<x>server.linux-acc.local	s<x>client.linux-acc.local	s<x>untrusted.linux-acc.local
IP Address	192.168.5.<x>0	192.168.5.<x>1	192.168.5.<x>2	DHCP
Def. GW	192.168.4.1	192.168.4.1	192.168.4.1	192.168.4.1

Networks:

### Local network

192.168.4.0/22 (255.255.252.0), GW 192.168.4.0, DNS 192.168.7.254

### Trusted subnet

192.168.5.0/24 (255.255.255.0)

### Untrusted subnet

192.168.4.0/24 (255.255.255.0)

## Untrusted VM Configuration

On the untrusted host, use DHCP networking and install/configure only that components that are required for testing prohibited access to the services described below.

## Configuration Common to both the Server and Client VMs

### • Create Users:

- ford (UID=1005)
- carter (UID=1006)
- reagan (UID=1007)
- clinton (UID=1008)

### • Create Groups:

- presidents (GID=1000; members=ford, carter, reagan, clinton)
- republicans (GID=1001; members=ford, reagan)
- democrats (GID=1002; members=carter, clinton)

## Server Configuration

- SELinux should run in Enforcing mode.
- SSH connections should be allowed from throughout the 192.168.4.0/22 network.

- For all other services, connections should be allowed from addresses within the trusted network (192.168.5.0/24), but disallowed from 192.168.4.0/24.
- Configure an SMTP server that allows connections from the trusted subnet.
- Connect to the iSCSI target provided by the target portal at 192.168.5.200.
- Partition the iSCSI disk
- Configure this virtual machine to boot to a command-line only.
- Add add'l swap space
- Create a PV, VG, and LV
- Create directories:

`/share/presidents`

- All four users must be able to write here.
- This directory must be owned by root and the group presidents.
- Only users in this group should have any access to the directory.
- Files created here should be owned by the group presidents.
- Users should not be able to delete files they did not create.
- This directory should have an SELinux fcontext that will permit it to be shared by multiple services.

`/share/presidents/republicans`

- This directory should be owned by root and the group republicans.
- Files created here should be owned by the group republicans.
- Only users in this group should have any access to the directory.
- Users should not be able to delete files they did not create.
- This directory should have an SELinux fcontext that will permit it to be shared by multiple services.

`/share/presidents/democrats`

- This directory should be owned by root and the group democrats.
- Files created here should be owned by the group democrats.
- Only users in this group should have any access to the directory.
- Users should not be able to delete files they did not create.
- This directory should have an SELinux fcontext that will permit it to be shared by multiple services.

## Client Configuration

Mount an NFS share from the server

Mount a SAMBA share from the server

Configure this virtual machine to boot to the Gnome GUI.