

1. What command would you use to check the current status of SELinux?

```
[moe404@localhost ~]$ sestatus
SELinux status:                enabled
SELinuxfs mount:              /sys/fs/selinux
SELinux root directory:       /etc/selinux
Loaded policy name:            targeted
Current mode:                  enforcing
Mode from config file:         enforcing
Policy MLS status:             enabled
Policy deny_unknown status:    allowed
Memory protection checking:    actual (secure)
Max kernel policy version:     33
[moe404@localhost ~]$
```

2. How can you view the SELinux mode (enforcing, permissive, or disabled)?

```
[moe404@localhost ~]$ getenforce
Enforcing
[moe404@localhost ~]$
```

3. What command would you use to temporarily set SELinux to permissive mode?

```
[moe404@localhost ~]$ sudo setenforce 0
[sudo] password for moe404:
[moe404@localhost ~]$ getenforce
Permissive
[moe404@localhost ~]$
```

4. How do you permanently set SELinux to enforcing mode by editing the configuration file?

```
[moe404@localhost ~]$ sudo nano /etc/selinux/config
[moe404@localhost ~]$ reboot
```

```
#
SELINUX=enforcing
# SELINUXTYPE= can t
```

5. What command would you use to list all SELinux booleans?

```
[moe404@localhost ~]$ sudo getsebool -a
abrt_anon_write --> off
abrt_handle_event --> off
abrt_upload_watch_anon_write --> on
antivirus_can_scan_system --> off
antivirus_use_jit --> off
auditadm_exec_content --> on
```

6. How can you enable a specific SELinux boolean (e.g., httpd_can_network_connect)?

```
[moe404@localhost ~]$ sudo setsebool -P httpd_can_network_connect on
[moe404@localhost ~]$ sudo getsebool httpd_can_network_connect
httpd_can_network_connect --> on
[moe404@localhost ~]$
```

7. What command would you use to check the SELinux context of a file?

```
[moe404@localhost ~]$ touch test.txt
[moe404@localhost ~]$ ls -Z test.txt
unconfined_u:object_r:user_home_t:s0 test.txt
[moe404@localhost ~]$
```

8. How can you change the SELinux context of a file to a specific type (e.g., httpd_sys_content_t)?

```
[moe404@localhost ~]$ sudo chcon -t httpd_sys_content_t test.txt
[moe404@localhost ~]$ ls -Z test.txt
unconfined_u:object_r:httpd_sys_content_t:s0 test.txt
[moe404@localhost ~]$
```

9. What command can be used to restore the default SELinux context of files in a directory?

```
[moe404@localhost ~]$ sudo restorecon -R /home/moe404
[moe404@localhost ~]$ ls -Z test.txt
unconfined_u:object_r:user_home_t:s0 test.txt
[moe404@localhost ~]$
```

10. How do you list all active zones in firewalld?

```
[moe404@localhost ~]$ sudo firewall-cmd --get-active-zones
public
  interfaces: ens33
[moe404@localhost ~]$
```

11. What command would you use to view the current rules in the public zone?

```
[moe404@localhost ~]$ sudo firewall-cmd --zone=public --list-all
public (active)
  target: default
  icmp-block-inversion: no
  interfaces: ens33
  sources:
  services: cockpit dhcpv6-client ssh
  ports:
  protocols:
  forward: yes
  masquerade: no
  forward-ports:
  source-ports:
  icmp-blocks:
  rich rules:
[moe404@localhost ~]$
```

12. How can you add a new service (e.g., HTTP) to the public zone?

```
[moe404@localhost ~]$ sudo firewall-cmd --zone=public --add-service=http --permanent
success
[moe404@localhost ~]$ sudo firewall-cmd --reload
success
```

13. What command removes a service (e.g., HTTPS) from the public zone?

```
[moe404@localhost ~]$ sudo firewall-cmd --zone=public --remove-service=https --permanent
Warning: NOT_ENABLED: https
success
[moe404@localhost ~]$ sudo firewall-cmd --reload
success
```

14. How do you allow a specific port (e.g., 8080) in the public zone?

```
[moe404@localhost ~]$ sudo firewall-cmd --zone=public --add-port=8080/tcp --permanent
success
[moe404@localhost ~]$ sudo firewall-cmd --reload
success
[moe404@localhost ~]$
```

15. How can you view the default zone used by firewalld?

```
[moe404@localhost ~]$ sudo firewall-cmd --get-default-zone
public
[moe404@localhost ~]$
```

16. How to change the GRUB timeout value? How to set the default boot entry in GRUB?

```
[moe404@localhost ~]$ sudo nano /etc/default/grub
[moe404@localhost ~]$
```

```
GNU nano 5.6.1 /etc
GRUB_TIMEOUT=6 #changed it from 5 to 6
GRUB_DISTRIBUTOR="$(sed 's, release .*$,,g'
GRUB_DEFAULT=0 #changed from default to 0
```

17. How to regenerate the GRUB configuration file after modifying /etc/default/grub?

```
[moe404@localhost ~]$ sudo grub2-mkconfig -o /boot/grub2/grub.cfg
Generating grub configuration file ...
Adding boot menu entry for UEFI Firmware Settings ...
done
[moe404@localhost ~]$
```