

**NAME - Montu Jangid**

**Assignment**

**Module: 1 - Linux server - Server Security And Automation**

**Linux Server: Operate Running Systems**

**20. View running processes with ps.**

**Answer - The ps command displays information about currently running processes.**

**To view all processes:- ps -ef**

**To view processes of a specific user:- ps -u  
username**

**21. Terminate processes with kill.**

**Answer - The kill command is used to stop a running process using its PID (Process ID).**

**Steps:**

**1.Find the PID:- ps -ef | grep process\_name**

**2.Kill the process:- kill PID**

**3.Force kill (if not stopping):- kill -9 PID**

**22. Use top or htop to monitor system resources and processes.**

**Answer - Using top**

**Displays:**

- CPU usage**
- Memory usage**
- Running processes**

**Press q to exit.**

**Using htop**

**23. · Configure one of your lab COMPUTERS to boot to the CLI using systemd, and reboot to confirm that you were successful.**

**Answer - Step 1: Set default target to CLI**

**sudo systemctl set-default multi-user.target**

## **Step 2: Reboot the system**

**sudo reboot**

**-> After reboot, the system starts in Command Line Interface (CLI) mode.**

## **Linux Server: Deploy, Configure, and Maintain Systems**

### **38. · Schedule tasks using cron or at.**

**Answer –**

**Using cron**

**Edit crontab:**

**crontab -e**

**Example (run script daily at 5 AM):**

**0 5 \* \* \* /path/script.sh**

**Using at**

**at 10:30 PM**

**Then type command and press Ctrl+D.**

**39. · Use apt or yum (depending on your Linux distribution) to install, update, and remove software packages.**

**Answer –**

**APT (Ubuntu/Debian)**

**sudo apt install package\_name**

**sudo apt update**

**sudo apt upgrade**

**sudo apt remove package\_name**

**YUM (RHEL/CentOS)**

**sudo yum install package\_name**

**sudo yum update**

**sudo yum remove package\_name**

**40. Install all httpd package**

**Answer –**

**sudo yum install httpd**

**or**

**sudo apt install apache2**

## **41. Open kickstart configuration graphically**

**Answer –**

**system-config-kickstart**

**(Requires GUI environment)**

## **42. Configure new kickstart file**

**Answer –**

- Set language**
- Set Keyboard**
- Set root password**
- Disk partitioning**
- Network configuration**
- Package selection**

## **43. Show full configuration of new kickstart file**

**Answer –**

**cat ks.cfg**

#### **44. Validate new kickstart file**

**Answer –**

**ksvalidator ks.cfg**

#### **45. All http on firewall**

**Answer –**

**sudo firewall-cmd --permanent --add-service=http**

#### **46. Reload firewall.**

**Answer –**

**sudo firewall-cmd –reload**

#### **47. Start and restart http**

**Answer –**

**sudo systemctl start httpd**

**sudo systemctl restart httpd**

**sudo systemctl enable httpd**

## **48. Install new foundation using new kickstart file**

**Answer –**

**At boot menu:**

**linux inst.ks=http://server\_ip/ks.cfg**

**This performs automated installation using Kickstart.**

**Linux server - Manage basic networking & Security**

## **49. Use ifconfig or ip to view and configure network interfaces.**

**Answer - View interfaces:**

**ip addr**

**or**

**ifconfig**

## **50. Use ping to test network connectivity.**

**Answer –**

**ping google.com**

**Stop with Ctrl + C.**

## **51. Understand basic firewall configuration using FIREWALL-CMD.**

**Answer - Check firewall status:**

**firewall-cmd –state**

**List services:**

**firewall-cmd --list-all**

## **52. Add ssh services in firewall**

**Answer –**

**sudo firewall-cmd --permanent --add-service=ssh**

**sudo firewall-cmd –reload**

## **53. Graphically manage the firewall**

**Answer –**

**firewall-config**

**54. NO Question**

**55. What is selinux Security**

**Answer –**

**SELinux (Security-Enhanced Linux) is a security mechanism that controls how processes access files, networks, and system resources.**

**Modes:**

- Enforcing – Security rules applied**
- Permissive – Logs violations only**
- Disabled – SELinux off**

**Check status:**

**Sestatus**

**56. How to Set Static IP in Linux?**

**Answer –**

**Edit network file:**

**sudo nano /etc/network/interfaces**

**or (RHEL):**

**sudo nano /etc/sysconfig/network-scripts/ifcfg-  
eth0**

**Example:**

**BOOTPROTO=static**

**IPADDR=192.168.1.100**

**NETMASK=255.255.255.0**

**GATEWAY=192.168.1.1**

**DNS1=8.8.8.8**

**Restart network:**

**sudo systemctl restart network**