### **1. How would you create a new user account in Linux?**

sudo useradd -m username

sudo passwd username

### **2. Difference Between Relative and Absolute Paths**

* **Absolute Path:** The complete path from the root directory (/). E.g., /home/user/documents/file.txt
* **Relative Path:** The path relative to the current working directory. E.g., documents/file.txt

### **3. Command to Change File Ownership**

sudo chown new\_owner : new\_group filename

### **4. Schedule a Task to Run Automatically**

crontab -e

Ex:

0 5 \* \* \* /path/to/script.sh (every day at 5 AM)

### **5. Compress and Decompress Files**

* **Compress:**

tar -czvf archive.tar.gz /path/to/directory

* **Decompress:**

tar -xzvf archive.tar.gz

### **6. Purpose of 'grep' Command**

grep 'search\_term' filename

### **7. Check and Manage Running Processes**

* **View running processes:**

top

* **Kill a process:**

kill PID

### **8. Set Up a Basic Firewall Using iptables**

Don’t know

### **9. Check System Resource Usage**

htop

### **10. Create and Manage Symbolic Links**

Don’t know

### **11. Mounting and Unmounting File Systems(should practice)**

* **Mount:**

sudo mount /dev/sdX /mnt

* **Unmount:**

sudo umount /mnt

### **12. Difference Between 'sudo' and 'su'**

* **sudo:** Executes a command as another user (default is root).
* **su:** Switches to another user account entirely.

### **13. Search for Files Larger Than a Specific Size**

find / -type f -size +100M

### **14. Redirect Output to a File and Append**

* **Redirect output:**

command > file.txt

* **Append output:**

command >> file.txt

### **15. View Real-Time Log Entries**

tail -f /var/log/syslog

### **16. Check and Modify File Permissions Recursively**

chmod -R 755 /path/to/directory

### **17. Use 'find' Command to Locate Files**

find /path -name "filename"

### **18. Purpose of '/etc/fstab' File**

Don’t know

### **19. Check and Manage Available Swap Space**

Don’t know

### **20. Use 'tar' for Backup and Restore**

* **Backup:**

tar -cvpzf backup.tar.gz /path/to/directory

* **Restore:**

tar -xvpzf backup.tar.gz -C /destination/path