**Practical Task: Red Hat Enterprise Linux Basics**

**Objective:** Demonstrate proficiency in fundamental tasks in Red Hat Enterprise Linux.

**Task 1: Accessing the Command Line**

1. **Access the Terminal:**
   * Open a terminal on your Red Hat Enterprise Linux system.

**Task 2: Managing Files from the Command Line**

1. **File Operations:**
   * Create a directory named "my\_files."
   * Inside "my\_files," create two text files: "file1.txt" and "file2.txt."
   * List the contents of the "my\_files" directory.

**Task 3: Getting Help in Red Hat Enterprise Linux**

1. **Command Documentation:**
   * Use the **man** command to access the manual page for the 'ls' command.
   * Search for information about the 'cp' command using the 'apropos' command.

**Task 4: Creating, Viewing, and Editing Text Files**

1. **Text File Management:**
   * Create a new text file named "notes.txt" using the command line.
   * View the contents of "notes.txt" using the **cat** command.
   * Edit "notes.txt" using the 'nano' or 'vim' text editor.

**Task 5: Managing Local Linux Users and Groups**

1. **User and Group Management:**
   * Create a new user named "testuser."
   * Add "testuser" to the "mygroup" group.
   * Check the user information for "testuser."

**Task 6: Controlling Access to Files**

1. **File Permissions:**
   * Change the permissions of "file1.txt" to allow read and write for the owner.
   * Verify the updated permissions using the **ls** command.

**Task 7: Monitoring and Managing Linux Processes**

1. **Process Management:**
   * Display a list of currently running processes using the **ps** command.
   * Use the **kill** command to terminate a selected process.

**Task 8: Controlling Services and Daemons**

1. **Service Control:**
   * Check the status of the 'sshd' service using the **systemctl** command.
   * Start or stop the 'sshd' service based on its current status.

**Task 9: Configuring and Securing OpenSSH Service**

1. **OpenSSH Configuration:**
   * Edit the 'sshd\_config' file to change the default SSH port.
   * Restart the 'sshd' service to apply the changes.

**Task 10: Analyzing and Storing Logs**

1. **Log Analysis:**
   * Display the last 15 lines of the system log using the **tail** command.
   * Use the **journalctl** command to analyze recent system logs.

**Task 11: Managing Red Hat Enterprise Linux Networking**

1. **Networking Commands:**
   * Check the IP address configuration of all network interfaces using the **ifconfig** or **ip** command.
   * Ping the Google DNS server (8.8.8.8) to test network connectivity.

**Task 12: Archiving and Copying Files Between Systems**

1. **File Archiving and Copying:**
   * Create a compressed archive of the "my\_files" directory using the **tar** command.
   * Copy the archive to another location or system using the **scp** command.

**Task 13: Installing and Updating Software Packages**

1. **Package Management:**
   * Install the 'htop' package using the package manager.
   * Update all installed packages on the system.

**Task 14: Accessing Linux File Systems**

1. **File System Navigation:**
   * Mount a USB drive or another storage device.
   * Display information about mounted file systems using the **df** command.

**Task 15: Analyzing Servers and Getting Support**

1. **System Information and Support:**
   * Use the **uname** command to display basic system information.
   * Generate a system report using the 'sosreport' command for potential troubleshooting.