

# Lab one : Basic Shell Commands and Bash Usage in RHEL 9

## Section 1: Logging in and Accessing the System

### 1. Login Task (GUI):

- Open the terminal in the GUI of your RHEL 9 system.
- **Question:** What command do you use to open a terminal in RHEL via the GUI?
- **Answer:**
  - ❖ **ctrl + Alt + t**
  - ❖ **or write command in terminal : gnome-terminal**

### 2. Login Task (SSH):

- From another system, SSH into the RHEL machine.
- **Question:** What command did you use to SSH into the system, and what was the IP address of your RHEL machine?
- **Answer:**
  - ❖ **To know users of system use command:**

**ls /home/**

- ❖ **To know IP address use command :  
hostname -I or ip a**
- ❖ **To change password of user use  
command:  
passwd ubuntu**
- ❖ **To SSH into the system use command:  
sudo(for root access) ssh username@IP  
address  
sudo ssh ubuntu@172.30.1.2**

## **Section 2: Understanding Bash Shell**

### **3. Check Default Shell:**

- Run the command to check which shell you are currently using.
- **Question:** What is the command to check the current shell? What output did you get?
- **Answer:**
  - ❖ **To check the current shell use  
command:  
echo \$0**
  - ❖ **output: -bash**

#### 4. Bash Commands:

- Run the command `echo $SHELL` to ensure you're using the bash shell.
- **Question:** Is `/bin/bash` shown in your output? If not, which shell are you using?
- **`/usr/bin/zsh`**

### Section 3: Running Simple Commands

#### 5. Working Directory:

- Use a command to check your current working directory.
- **Question:** What command did you use, and what directory are you in right now?
- **`pwd`**
- **`/home/abdallah-shehawe`**

#### 6. List Files:

- Run a command to list all files in the `/home` directory.
- **`ls /home`**
- **Question:** Which files and folders are present in `/home`?
- **`ls /home`**
- **`abdallah-shehawe`**

## 7. Display Date:

- Run a command to show the current date and time.
- **date**
- **Question:** What is the output of the date command?
- **Fri Nov 28 06:50:49 PM EET 2025**

## Section 4: Learning Command Syntax

### 8. Command with Options:

- Use the ls command with options to display detailed information about the files in /etc.
- **Question:** What is the command you used to list files in long format? How many files or directories are listed in /etc?
- **ls -l /etc**
- **2112**

## Section 6: Using Terminal Shortcuts

### 9. Interrupt Process:

- Run the sleep 100 command, then use a keyboard shortcut to stop the process.
- **Question:** Which shortcut did you use to interrupt the sleep command?
- **Ctrl + c**

## 10. Clear Terminal:

- Use the shortcut to clear the terminal screen.
- **Question:** What is the shortcut to clear the terminal?
- **Ctrl + l**

## 11. Command Autocompletion:

- Type hos in the terminal and press Tab to auto-complete it to hostname.
- **Question:** Did the Tab key auto-complete the command for you?
- **yes**

## Bonus Tasks

## 12. Command History:

- Use the keyboard shortcut to browse through the previous commands you've entered.

- **Question:** What shortcut allows you to view and re-run previous commands?
- **Ctrl + R**

### 13. **Log Out:**

- Use a terminal shortcut to log out of your current session.
- **Question:** Which shortcut did you use to log out of the session?
- Ctrl + D**