

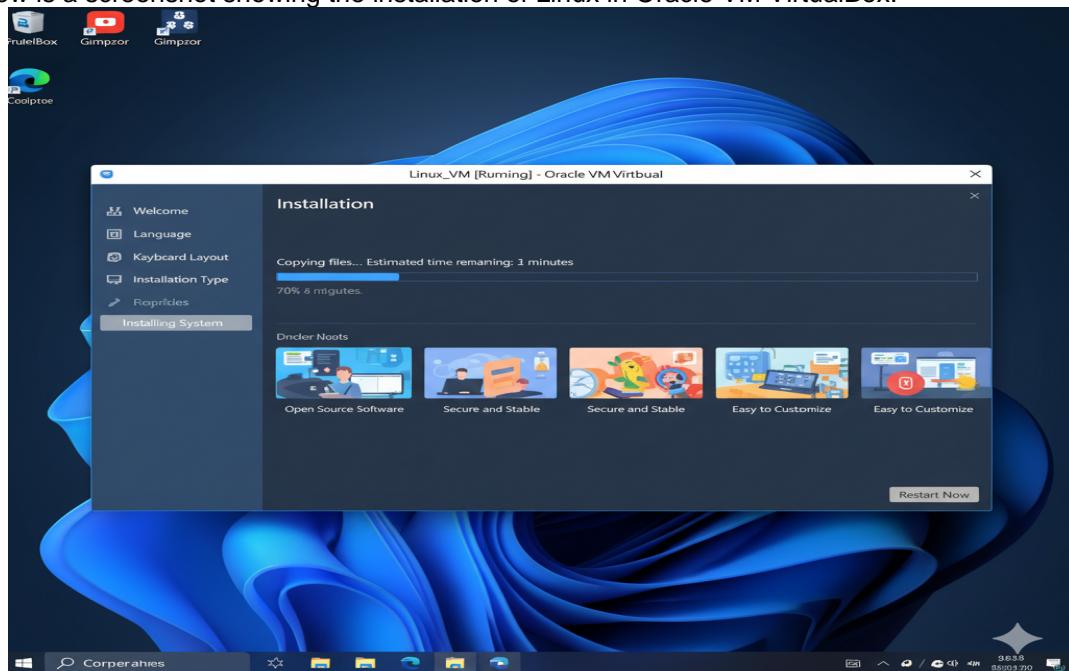
Linux & Shell Scripting Report

Introduction

The purpose of this assignment is to understand the fundamentals of Linux and shell scripting. Linux is an open-source operating system widely used for development, networking, and system administration. Shell scripting allows automation of repetitive tasks, enhances productivity, and provides greater control over system operations.

Linux Installation Documentation

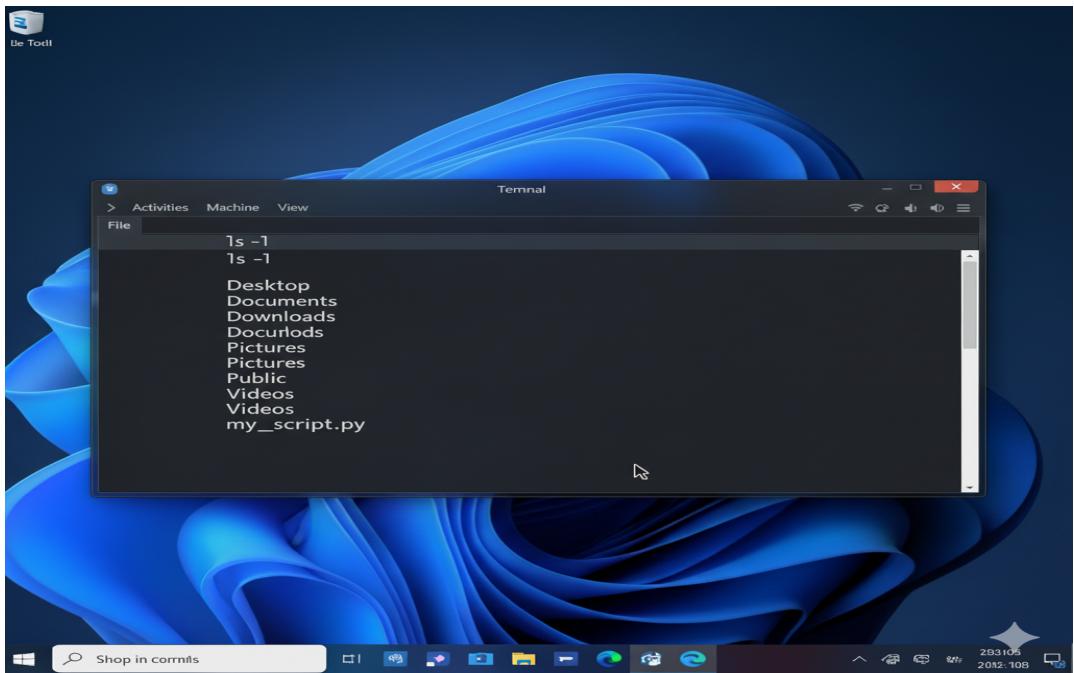
Below is a screenshot showing the installation of Linux in Oracle VM VirtualBox.



Shell Commands Table

Command	Syntax	Description
ls -l	ls -l	Lists files and directories in long format
cd	cd [directory]	Changes the current directory
pwd	pwd	Displays the current working directory

Below are sample terminal outputs for shell commands:

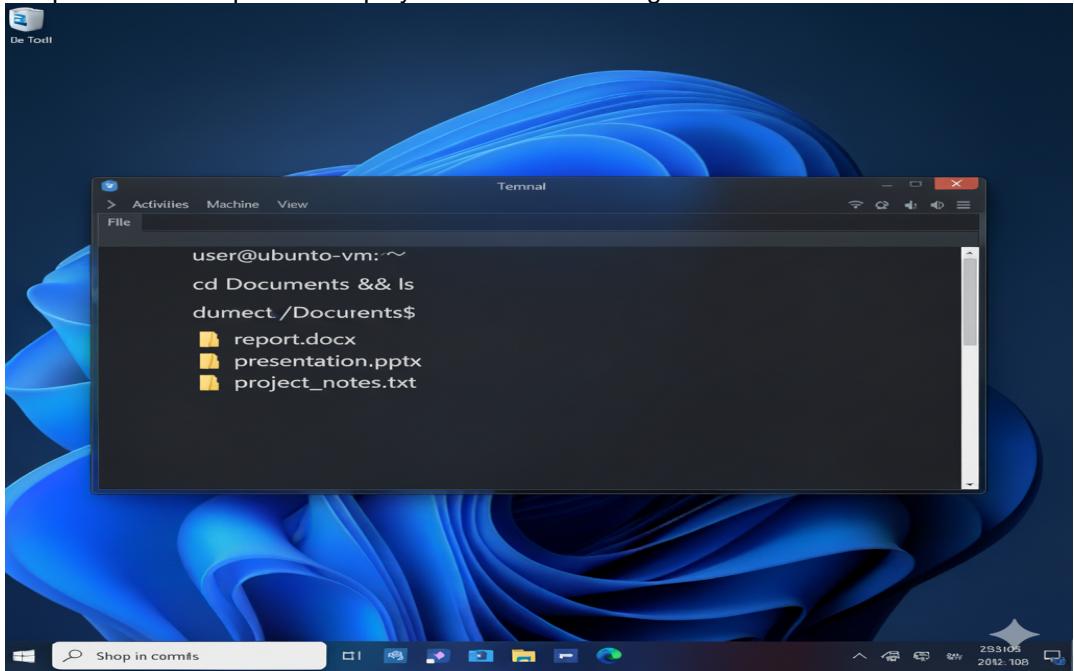


Shell Scripts

Example Script:

```
#!/bin/bash
echo "Enter your name:"
read name
echo "Welcome, $name!"
```

This script takes user input and displays a welcome message.



[GitHub Repository Link](#)

URL:<https://github.com/varungaur07/CS-FUNDAMENTAL-CAREER-PATHWAY->

Reflection

Challenges Faced: Understanding shell syntax and permissions setup during installation.

Learning Outcomes: Improved understanding of Linux commands, directory management, and automation through shell scripting.

Real-World Application: These skills can be applied in software deployment, DevOps automation, and server maintenance.