

Linux & Shell Scripting Essentials

Overview

Linux is a free, open-source operating system known for its security, speed, and flexibility. Shell scripting enhances Linux's functionality by automating tasks through command-line interfaces.

Steps to Get Started

1. **Set Up a Linux Environment:** Use a virtual machine, cloud instance, or WSL.
2. **Learn Basic Commands:** Master navigation, file management, and system monitoring.
3. **Understand Shell Scripting:** Write and execute simple scripts to automate tasks.

Common Commands

Command Description

`pwd` Present working directory

`ls -l` List files with details

`chmod +x` Make a file executable

Sample Script

```
#!/bin/bash
```

```
echo "Automating with Shell Scripting!"
```

Resources

- [Linux Command Cheat Sheet](#)
- [Advanced Bash Guide](#)