# Linux Learning Documentation

Welcome to my Linux learning documentation repository! This repository serves as a record of my journey, showcasing the topics, projects, and skills I am exploring while mastering Linux.

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## Introduction

This repository is a personal collection of notes, projects, and references as I learn and develop skills in Linux system administration, shell scripting, and related technologies. My goal is to document my progress, consolidate knowledge, and create a practical portfolio.

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## Learning Objectives

Here are the primary goals I aim to achieve through my Linux learning journey:

- Gain proficiency in Linux system administration.

- Understand and implement essential commands and tools.

- Automate tasks using shell scripting.

- Build projects to reinforce theoretical knowledge.

- Prepare for Linux certifications like RHCSA.

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## Topics Covered

Below are the topics I have covered so far:

1. \*\*Linux Basics\*\*

- Summary: Introduction to the Linux operating system, its history, and core components.

- Key Learnings:

- Understanding the Linux file system structure.

- Basic command-line navigation and file management.

2. \*\*User and Group Management\*\*

- Summary: Managing user accounts, groups, and permissions in Linux.

- Key Learnings:

- Creating and managing user accounts.

- Understanding file permissions and Access Control Lists (ACLs).

3. \*\*Networking\*\*

- Summary: Configuring and troubleshooting Linux network settings.

- Key Learnings:

- Setting up IP addresses and DNS.

- Using tools like `ping`, `netstat`, and `nmcli`.

4. \*\*Shell Scripting\*\*

- Summary: Writing and executing shell scripts for task automation.

- Key Learnings:

- Understanding shell syntax and variables.

- Using loops, conditions, and functions in scripts.

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## Projects

Here are some projects I have worked on during my Linux journey:

1. \*\*Automated User Management Script\*\*

- Description: A shell script to automate user creation, group assignments, and setting permissions.

- Key Technologies: Bash scripting, Linux commands.

- Link: [GitHub repo link or demo link]

2. \*\*Network Configuration Tool\*\*

- Description: A script to configure IP settings and test network connectivity.

- Key Technologies: Bash scripting, Networking tools.

- Link: [GitHub repo link or demo link]

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## Resources

These are the resources I have found useful during my Linux learning journey:

- [Linux Survival](https://linuxsurvival.com) - Interactive lessons for Linux beginners.

- [Red Hat Documentation](https://access.redhat.com/documentation/en-us/) - Comprehensive guides on RHEL administration.

- [Linux Bible by Christopher Negus](https://www.amazon.com/) - An excellent book for foundational and advanced Linux knowledge.

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## How to Contribute

If you have suggestions or resources that might help in my Linux learning journey, feel free to contribute:

1. Fork the repository.

2. Make your changes or additions.

3. Submit a pull request with a brief description of your contribution.

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## Contact

If you'd like to connect or discuss this repository, feel free to reach out:

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Thank you for visiting my Linux learning documentation repository!