Linux Basics for Beginners

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Basic Linux Course

This outline covers the fundamentals of working with Linux, including the command line, file and directory management, user accounts and permissions, basic system administration tasks, and an introduction to scripting.

COURSE OBJECTIVE

- Understand the basic concepts of Linux
- Navigate the Linux file system
- Use basic Linux commands
- Manage users and permissions
- Perform basic system administration tasks
- Write simple shell scripts

DURATION:

Course Outline:

Day 1: Linux Fundamentals

- Module 1: Introduction to Linux

    - Overview of Linux and distributions
    - Installation of a Linux distribution (Lab Setup)
- Module 2: Basic Command Line Usage
    - Navigating the file system
    - File and directory manipulation commands

Day 2: Essential Commands and File Management

- Module 3: Text Editors and Shell Basics
    - Introduction to text editors
    - Basic shell scripting concepts
- Module 4: File System Hierarchy and Processes
    - Understanding the Linux file system hierarchy
    - Managing processes and jobs

Day 3: Users and Permissions

- Module 5: User Management
    - Creating and managing user accounts
    - Group management and permissions
- Module 6: Advanced Permissions and ACLs
    - Understanding advanced permissions
    - Implementing Access Control Lists (ACLs)

Day 4: Networking Basics

- Module 7: Networking Fundamentals
    - Overview of networking concepts
    - Configuring network interfaces
- Module 8: Remote Access and File Transfer
    - SSH basics
    - Transferring files using SCP and SFTP

Day 5: System Administration Basics

- Module 9: System Maintenance and Updates
    - Managing packages with package managers
    - Updating the system
- Module 10: Backup and Restore
    - Creating backups with tar and rsync
    - Introduction to system snapshots

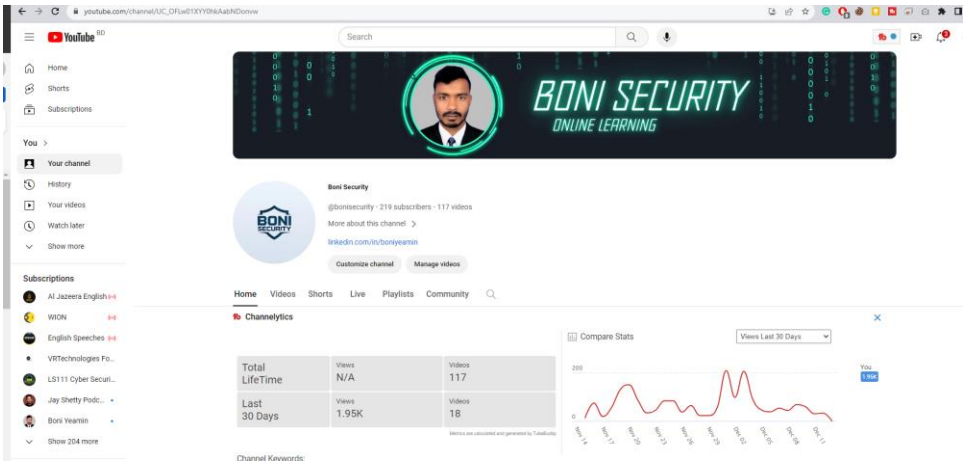
Day 6: Shell Scripting and Automation

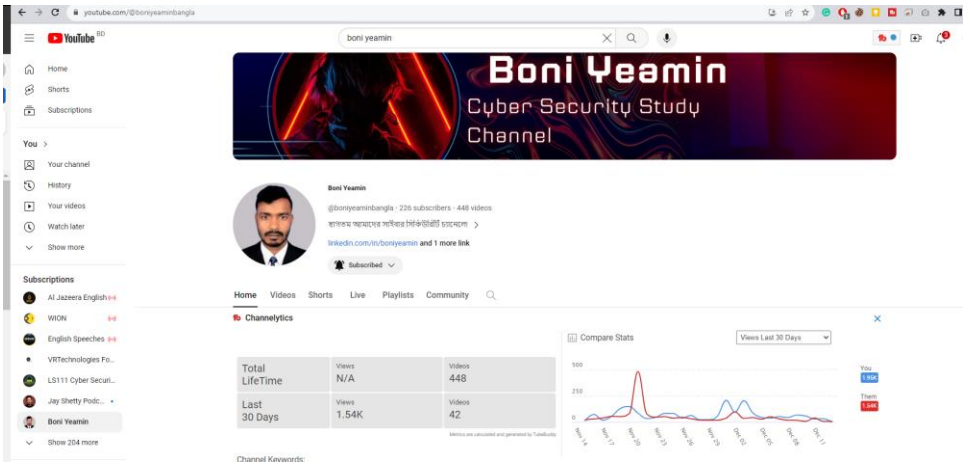
- Module 11: Introduction to Shell Scripting

    - Basics of shell scripting
    - Writing simple scripts to automate tasks
- Module 12: Cron Jobs and Automation Tools
    - Scheduling tasks with cron
    - Introduction to automation tools (Ansible, Puppet, etc.)

Day 7: Security and Conclusion

- Module 13: Basic Security Practices
    - Overview of Linux security features
    - Securing SSH and network services
- Module 14: Course Review and Q&A
    - Recap of key concepts and commands
    - Open discussion and Q&A session





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