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WELCOME TO

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We'll Be Starting Soon

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Day 2

Intro to linux and Networking

Instructors : Kumar Tiwari and Shashank Ghimire

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Learning Linux

01
Linuxsurvival
https://linuxsurvival.com/

02
OvertheWire
https://overthewire.org/wargames/

03
Tryhackme
https://tryhackme.com/

04
Books
https://github.com/manjunath5496/Linux-Books

- Explainshell.com,

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Certifications on Linux

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- Oracle certified Professional Oracle Linux 8 System Administrator certification
- Comptia linux +
- LPIC 1,2 and 3
- RHCSA and RHCE

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What is LINUX ?

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- Unix like **Operating System** assembled under the model of free and open-source software development and distribution.
- These operating systems share the **Linux Kernel.**
- Comes in several distributions to serve different purposes.
- Powers a wide range of devices and provides users with a flexible and customizable platform for their computing needs.

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Why linux ?

- Free and Open Source
- Community Driven
- Universal, used in every system (mobile, embedded systems, and so on)

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Linux File System

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- Root Directory : Parent directory of the entire file system.
- Directories : Contains files and other directories.
- Path : Address of a file or directory in the file system.
- Permissions : Control access to files and directories. (read, write and execute)
- Mount Points : To access different storage devices, such as hard drives, USBs, by attaching them to a specific location.
- Virtual file system : Abstraction layer that provides a unified interface for interacting with various file systems and devices. (/proc/cpuinfo, /proc/meminfo, /proc/sys)
- Symbolic Links - Shortcuts or references to files or directories.

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The Command Line

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Command line interface provides a direct way to interact with computer's operating system. One of the most powerful tool in a developer's arsenal allowing them to perform complex tasks with ease. It's time to unleash its true potential!

Automate repetitive tasks and save time with shell scripts. Learn how to create, execute, and debug shell scripts using bash. Combine commands and control structures to create powerful scripts that can do just about anything.

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Basic Commands

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