



H.No: 7-1-413/2, Beside Sonabai Temple, Near Reliacne Fresh, Balkampet Rd, Ameerpet, Hyderabad - 500038

Linux Course Content

Module-1: Introduction to Linux

- **Overview of Operating System**
- Types of Operating Systems
- **History of Unix / Linux**
- Advantages of Unix / Linux
- **Linux Distributions**
- Difference b/w RHEL, Centos and Fedora, Debian, Ubuntu, etc.
- Windows vs. Linux

Module-2: Virtual Machine Setup (Manual)

- Overview of VM
- **Installing Chocolate Package Manager**
- **Installing Oracle Virtual Box Manager**
- **Downloading the CentOS Disk Image**
- VM setup with CentOS
- **Downloading the Ubuntu Disk Image**
- VM setup with Ubuntu
- Start VM
- Stop VM
- **VM Disc Space Details**

Module-3: Virtual Machine Setup (Automation)

- **Overview of Vagrant**
- **Vagrant Architecture**
- **Vagrant Use cases**
- **Vagrant Installation**
- **Vagrant Boxes**
- **Vagrant Files**
- **Providers**
- **Automate VM Setup using Vagrant**
- Vagrant IP, RAM and CPU
- **Vagrant Sync Directories**
- **Provisioning**
- Multi VM Vagrant file setup
- **Vagrant Share**
- Vagrant up
- Vagrant SSH

Module-4: SSH Client Installation

- **SSH Overview**
- **Downloading and installing MobXterm**
- **Connecting to VM from Mobaxterm** using SSH

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Module-5: Linux Concepts

- Introduction to Linux
- Directories and File Systems
- File Types
- Commands like mkdir, cp,mv,touch and more
- vim editor
- Filters
- Redirections
- Users and Groups
- Permissions: sudo
- Package Management
- Services
- Process
- Archiving

Module-6: Shelling Scripting

- Overview of Shell Scripting
- Variables
- System Variables
- Command line arguments
- User Input
- Decision making
- Monitoring Script
- Loops, while Loops
- Remote Command Execution
- SSH Key Exchange

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