Linux

Syllabus

Linux Course Content

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

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

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

SSH Client Installation

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

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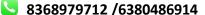
Linux Concepts

- 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

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