

## Course Outline

### Introduction

- History and structure of LINUX

### Managing Files

- Linux file system hierarchy
- Locating file using command line

### Getting Help

- Help command

### Working with Text Files

- Basic command (creating & editing files)
- Redirection the output

### Local users and groups

- Creating & modifying users, Group and database file
- Account expiry & password aging

## Permissions

- Manage file directory default Permission with unmask
- Special permission

## Processes

- Process management
- Controlling jobs
- Killing process & monitoring process activity

## Services

- Introduction to systemd

## Remote Access

- Open SSH
- FTP

## Logs

- Logs introduction, locating logs , filters and que

## Software Package

- Intro to Linux package management
- Package using RPM
- Installing & configuring YUM server
- YUM options

### **Virtualization System**

- Introduction to virtualization
- Installing & managing KVM

### **File System**

- Introduction to file system
- Types of file system
- Managing file system

### **KICKSTART**

- Intro to Linux Installation method
- Kickstart installation requirements
- Installation

### **Archiving Files**

- Different compression method
- Use of TAR utility compress & extract files

### **Regular Expression**

- Match pattern with grep and other filters

### **VIM**

- VIM MODE
- Shortcut

### **Cron & At**

- Task scheduling

### **Networking**

- Networking concept & IP address
- Network configuration
- NMCLI

### **Access List**

- Managing permission

### **Network Users**

- Centralized authentication using IDM

### **Selinux**

- Selinux basic and Management

### **Partition & File System**

- Create, Manage & configure disk
- File system management

## Logical Volumes

- LVM configuration & management with command Line
- Using GUI

## Access NFS

- Managing sharing with NFS

## Access Samba

- Samba management

## Access HTTP

- Apache installation & management

## Boot Troubleshooting

- Linux boot process
- Repair common boot issue
- Repair file system issue at boot
- Repair boot Loader problem

## Firewall

- Limiting network communication using firewall-cmd