Enterprise Linux Server (RHEL 7) Administration (Three Modules)

Duration- 5 Day

**Module:-I**

* Access the command line
* Log in to a Linux system and run simple commands using the shell.
* Manage files from the command line
* Copy, move, create, delete, and organize files from the bash shell prompt.
* Get help in Red Hat Enterprise Linux
* Create, view, and edit text files
* Create, view, and edit text files from command output or in an editor.
* Manage local Linux users and groups
* Manage local Linux users and groups, and administer local password policies.
* Control access to files with Linux file system permissions
* Set Linux file system permissions on files and interpret the security effects of different
* permission settings.
* Monitor and manage Linux processes
* Obtain information about the system, and control processes running on it.
* Control services and daemons
* Control and monitor network services and system daemons using systemd
* Manage Red Hat Enterprise Linux networking
* Configure basic IPv4 networking on Red Hat Enterprise Linux systems.
* Archive and copy files between systems
* Archive files and copy them from one system to another.
* Install and update software packages
* Download, install, update, and manage software packages from Red Hat and yum
* package repositories.
* Introduction to troubleshooting
* Describe a generalized strategy for troubleshooting.
* Take proactive steps to prevent small issues
* Prevent small issues from becoming large problems by employing proactive system
* administration techniques.
* Troubleshoot boot issues
* Identify and resolve issues that can affect a system's ability to boot.

Module:-II

* + Use regular expressions with grep
  + Write regular expressions that, when partnered with grep, will allow you to quickly
* isolate or locate content within text files.
  + Create and Edit text files with vim
  + Introduce the vim text editor, with which you can open, edit, and save text files.
  + Schedule future Linux tasks
  + Schedule tasks to automatically execute in the future.
  + Control access to files with access control lists (ACL)
  + Manage SELinux security
  + Add disks, partitions, and file systems to a Linux system
  + Manage simple partitions and file systems.
  + Manage logical volume management (LVM) storage
  + Manage logical volumes from the command line.
  + Access networked attached storage with network file system (NFS)
  + Access (secure) NFS shares.
* Troubleshooting
  + Troubleshoot storage issues
  + Troubleshoot application issues
  + Debug application issues.
  + Deal with security issues
  + Identify and fix issues related to storage.

Module:-III

* + Control services and daemons
  + Review how to manage services and the boot-up process using systemctl
  + Manage DNS for servers
  + Set and verify correct DNS records for systems and configure secure DNS caching
  + Provide file-based storage
  + Provide NFS exports and SMB file shares to specific systems and users
  + Provide Apache HTTPD web service
  + Write Bash scripts
  + Write simple shell scripts using Bash
  + Bash conditionals and control structures
  + Use Bash conditionals and other control structures to write more sophisticated shell
* commands and scripts
  + Configure the shell environment
  + Customize Bash startup and use environment variables, Bash aliases, and Bash functions
* Troubleshooting
  + Identify and fix problems in, and using, the package management subsystem.
  + Troubleshoot network issues
  + Identify and resolve network connectivity issues.