

**Course Title : System Admin**

**Course Duration : 2 week (10 Days)**

**Fees : 300 USD - 19500 INR**

**Topics :**

- 1) OS Installation
- 2) Linux Usage Basics
- 3) Running command and getting help
- 4) Browsing the File system
  - i) Absolute and Relative Path
  - ii) Changing Directory
  - iii) Listing directory contents
  - iv) Copying and Moving Files
  - v) Creating/Removing files and directories.
- 5) Users, Groups and Permissions
  - i) Users
  - ii) Groups
  - iii) File Security
  - iv) File and Directory Permissions
- 6) Using the bash shell
  - i) Scripting basics
  - ii) Creating Shell Script
- 7) Standard I/O and Pipes
  - i) Standard Input and Output
  - ii) Redirecting Output to a file
- 8) Text Processing Tools
  - i) Tools for Extracting Text
  - ii) Viewing File Content
  - iii) Tools for Analysing Text
  - iv) Sorting Text
  - v) Comparing Text
- 9) vim - An Advanced Text Editor
  - i) vim Basics
  - ii) Opening a file in vim
  - iii) Modifying a File
  - iv) Search and Replace
  - v) Undoing Changes
- 10) Basic System configuration Tools
  - i) TCP/IP Network Configuration
  - ii) Managing Ethernet Connection
  - iii) Network Configuration Files
- 11) Investigating and Managing Processes
  - i) What is a Process ?
  - ii) Listing Process
  - iii) Finding Process
  - iv) Job Schedule

12) Finding and Processing Files

- i) locate
- ii) find
- iii) Basic find examples
- iv) find and Logical Operators
- v) find and Permissions
- vi) find and Numeric Criteria
- vii) find and Access Times

13) Network Clients

- i) wget
- ii) scp: Secure File Transfer
- iii) rsync: Efficient File Sync

14) The Linux Filesystem In-Depth

- i) Partitions and Filesystems
- ii) Inodes
- iii) cp and inodes
- iv) mv and inodes
- v) rm and inodes
- vi) Creating and Extracting Archives

15) Essentials System Administration Tools

- i) Managing Services
- ii) Managing Software
- iii) The Yum Package Management Tools

**Course Title : Chef Automation Training**

**Duration : 1 week (5 Days)**

**Fees : 250 USD - 16250 INR**

**Topics :**

- 1) Introduction
- 2) Installing Chef Server
- 3) Setup the Administrator Workstation
- 4) Setup the Chef Client using bootstrap
- 5) Creating Our First Cookbook
- 6) Recipes and Roles
- 7) Dependencies & Conditionals with OHAI Searching
- 8) File Templates & Attributes
- 9) Chef Environments

**Course Title : Jenkins CI-CD**

**Duration : 1 week (5 Days)**

**Fees : 250 USD - 16250 INR**

**Topics :**

- 1) Introduction to Jenkins
  - Introduction
- 2) Installation and Configuration
  - Prerequisites
  - Download and Installation
  - Configuration Tour
- 3) Managing Jenkins
  - Securing Jenkins
  - Managing Credentials
  - Plugin Management
  - Jenkins Backup - Using Plugins to Manage Your System
- 4) Build Details: Setting up different type of Automation
  - Your First Build
  - Working With Github
  - Build from Github Project
  - Scheduling Builds
  - Build Linking - Upstream and Downstream
  - Freestyle Maven Project
  - Parameterized Builds

**Course Title : Amazon Web Services****Duration : 1 week (5 Days)****Fees : 250 USD - 16250 INR****Topics :**

- 1) Cloud Concepts
  - Introduction
  - Business benefits
  - Technical benefits
  - Scalable architectures
  - Understanding elasticity
- 2) Cloud Best Practices
  - Design for failure
  - Implement elasticity
  - Decouple your components
  - Keep things secure
- 3) Designing For Failure
  - Virtual servers (EC2) and Elastic IP
  - Regions and Availability Zones
  - The Amazon Machine Image (AMI)
  - Elastic Load Balancing (ELB)
  - Resource and application monitoring (CloudWatch)
  - Elastic Block Storage (EBS)
  - Managing the Relational Database Service (RDS)
- 4) Implementing Elasticity: Automating Infrastructure
  - Understanding bootstrapping
  - Autoscaling groups
  - Scalable storage (Simple Storage Service and CloudFront)
- 5) Keeping Things Secure
  - The shared security model
  - Secure AWS access control with Identity and Access Management (IAM)
  - Security groups
  - Virtual Private Cloud (VPC)
- 6) Theory into Practice: Setting Up a Web Application Architecture
  - What we are building: Overview of the web application architecture
  - Signing up for AWS
  - Creating a new IAM user
  - Creating a key pair
  - Configuring a security group
  - Creating an ELB
  - Launching an EC2 instance (and configuring Apache and PHP with user data)
  - Connecting to the EC2 instance via HTTP
  - Connecting to the EC2 instance via SSH
  - Creating a MySQL RDS database
  - Creating a custom server image
  - Auto Scaling

**Course Title : Logging And Monitoring**

**Duration : 1 week ( Days)**

**Fees : 250 USD- 16250 INR**

**Topics :**

- 1) Basic Concept of Logging
- 2) Install, Configure, and Optimize your Elasticsearch, Logstash, and Kibana deployment.
- 3) Elasticsearch overview, Logstash configuration, creation of dashboards in Kibana
- 4) Installation of Nagios Monitoring
- 5) Monitor Linux and Window host (CPU, Disk, Availability, Services)