DevOps Prerequisites:

It is recommended you know basics of Linux.

Basic understanding of Networking to learn devops course.

 DevOps  Course Target:

In this DevOps training online you will learn about various fundamentals.

Learn Installation of DNS.

Understand automated installations and deployments.

Implement tuning concepts.

Understand comparison between bash scripting and Python.

Obtain clear idea of virtualization basics.

Understand about Monitoring and Logging

In-depth understanding of Devops practices.

DevOps Course Targeted Audience:

Service engineers.

Project managers.

Software developers.

IT architects.

Testing professionals.

1: Introduction

Goal set: By the end of this module you need to understand about what is DevOps, its fundamentals, day to day roles, infrastructure, problems and solutions.

Topics – Introduction, Roles, Necessities, Problems &  Solutions, Making a Transition, cloud computing, Identifying cultural impediments and overcoming it, Networking Concepts from an enterprise prospective, devops definition, Building Accountability and Trust, Infrastructure layouts and its Challenges, Scalability and Availability.

2: Common Infrastructure Servers

Goal set: At the end of this module of Devops for developers course you need to understand about DNS server, how to install, DNS configuration and tuning, web servers, HA.

Topics – DNS Server at Internet Scale, devops tools, DNS Installation, DNS Configuration, DNS Tuning, Understand the working of Geo location, Web Servers like Apache, Ngnix and their differences, Configure Apache and Nginx for the Enterprise, Understand HA and Setup HA Proxy for various Servers, Setup NFS and Open-filer for storage presentation, Build and release and its Importance, Source control tool,devops automation.

3: Automated Installations and Deployments

Goal set: By the end of this module of devops course content you need to understand about installation of Linux servers, system updates, configure SVN and Jenkins, RPM package, installation and configuration of Puppet.

Topics – Installation of Linux Servers using PXE boot or kickstart method, Automatic system updates, Configure SVN or Git for version control, release management, Configure Jenkins for Build and deployments, Building an RPM package, automated deployment tools, Installation and Configuration of Puppet for deployments, Its usage and general idea.(Git or SVN).

4: Performance tuning aspects and basic Security

Goal set: In this module you need to learn about tuning concepts, Disk scheduler types, bench marking servers, security at OS and network level.

Topics – Operating system tuning concepts and its Concerns, Types of Disk Schedulers, Performance and Use Cases, Network tuning Parameters and their Influence, Bench marking servers like Apache Web Server, Security at the OS and Network level, Configure Linux Firewall and other security aspects for a secured environment.

5: Bash/Python Scripting

Goal set: By the end of this module you need to understand about Basics of Bash shell, configuration of cluster shell, basics of Python, configure crontab.

Topics – Basics of Bash Shell like file descriptors, environment, basic syntax of bash scripting, Understand loops, its conditions and return status, Understand and configure crontab for automating a task, Installation and Configuration of Cluster Shell for deployments on large clusters, Basics of Python and its comparisons with bash scripting.

6: Virtualization and it’s Concepts

Goal set:  By this end of this module  of Devops online classes you need to understand about introduction to virtualization, XEN and KVM, installation of virtualization, types of virtualization.

Topics – What is Virtualization? Types of Virtualization, Difference between Xen and KVM, Installation of virtual machines using Virtual box, Vmware, KVM, Understand the various components of virtualization, Introduction to the Cloud virtualization.

7: Monitoring and Logging

Goal set:  In this module of Devops online classes you need to understand about monitoring and logging, install and configure Nagios monitoring, various logging tools, system auditing.

Topics – Understand Logging in Linux systems and its working for various services, various logging tools, Understand System auditing, Install and Configure Nagios Monitoring for the Infrastructure, Writing custom plugins for Nagios.

8: DevOps Tools and Commands

Goal set:  At the end of this module you need to understand about Best practices understand various commands, understand openssl and openssh.

Topics – Understand the Dev and Production environments in an organization, Best Practices, Understand Openssl and Openssh details, Understand rsync for backups, Understand Commands like: lsof, netstat, Understand Virtual Memory, Free, top, vmstat, iostat, uptime, find, screen, strace, Disk commands like – df, du, mkfs, tune2fs, fdisk, dd,Understand /etc/fstab, mount commands.