

DEVOPS



Linux Basics: (RHCSA, RHCE)

- Linux File system structure
- Basic Linux/Unix commands
- Changing file permissions and ownership
- Filter commands
- Simple filter and advance filter commands
- Start and stop services
- Basics Containers
- Find and kill the process with id and name
- Package installation using RPM and YUM
- Basic Servers and advance servers
- Automation Technologies with Ansible Tools

Introduction to DevOps

- Define DevOps
- What is DevOps
- SDLC models, Lean, ITIL, Agile
- Why DevOps
- History of DevOps
- DevOps Stakeholders
- DevOps Goals
- Important terminology
- DevOps perspective
- DevOps and Agile
- DevOps Tools
- Configuration management
- Continuous Integration and Deployment

Introduction to Cloud Computing

- What is cloud computing
- Characteristics of cloud computing
- Cloud implementation models
- Cloud service models
- Advantages of cloud computing
- Concerns of cloud computing

GIT: Version Control

- What is Git
- About Version Control System and Types
- Difference between CVCS and DVCS
- A short history of GIT
- GIT Basics
- GIT Command Line
- Installing Git
- Git Essentials
- Creating repository
- Cloning, check-in and committing
- Fetch pull and remote
- Branching
- Creating the Branches, switching the branches, merging the branches.

Chef for Configuration Management

- Overview of Chef
- Organization Setup
- Node Objects and Search
- Roles
- Data bags
- Workstation Setup
- Test Node Setup
- Environments
- Attributes



Puppet for Configuration Management

- What is Puppet
- Puppet Master
- Templates
- Example Code Manifests/Modules
- Puppet Forge
- Installation and Configuration
- Puppet Language Basics

Jenkins – Continuous Integration

- Introduction
- Build Deployments
- Securing Jenkins
- Jobs
- Installation

Docker- Containers

- Introduction
- Docker Hub
- Architecture
- Custom imagest
- Installation
- Docker Networking
- Docker Compose

Nagios

- Introduction
- About Monitoring tools
- About New Relic
- Installing and Configuring New Relic
- Application Monitoring using New Relic
- Server Monitoring using New Relic
- Alerts policies

Kubernetes

- Introduction To Kubernetes
- Environment Setup and Configuration
- High Availability
- Running Code in Kubernetes
- Container Life Cycles
- Background Processing in Kubernetes
- Integration with Continuous Delivery
- Logging and Monitoring
- Troubleshooting

Maven

- Maven Overview
- What Maven Provide
- Coherent Organization of Dependencies
- Mavens Principles
- Maven's Benefits
- Maven Environment Setup
- Maven Origins
- Declarative Execution



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