

DevOps Course Content



1. Introduction to DevOps Certification

- What is DevOps?
- Why DevOps?
- Benefits of DevOps
- Overview of DevOps

2. Provisioning

- Vagrant-What is vagrant-Compare with Terraform and Docker
- Installation and setup
- Vagrant Commands

3. DevOps Installation and setup

- Installation of DevOps Tools
- Installing the required tools Git, Jenkins, Ansible, Puppet, Docker
- Installing the Chef, CVS, Clearcase, Nagios, Maven, Database

4. Software Version Control

- Basics of Software Version Control
- Complete concepts in Version Control Systems
- Study about SCM, Command Line, CI tool Jenkins, SVN, CVS, Clearcase
- Real time project study in Maven Project and Jenkins

5. Automation Build and Test

- Basics about the Automating Builds – Maven, Ant
- Overview of Jenkins Pipeline
- Setting up continuous Delivery Pipeline using Jenkins
- Building a continuous Delivery Pipeline Using Jenkins
- DevOps Test Automation tools and framework
- DevOps Testing Strategy

6. Continuous Integration (CI)

- Study about DevOps Continuous Integration
- DevOps Continuous Integration Tools Comparison
- DevOps Continuous Integration and Continuous Delivery
- DevOps Continuous Integration Pipeline, Jenkins, Testing
- Benefits of DevOps Continuous Integration

7. Docker

- What are Containers
- Difference between VM and Container, Docker Fundamentals
- Creating & Running Docker Images, Image Distribution
- Creating Docker Registry, Compose Scripts, Remote Docker Image

8. Docker Commands with Best Practices

- Networking Concepts in Docker
- Using a Docker volume
- Creation of a Dockerfile, a text file to contain the commands to create the image

9. Containerization with kubernetes

- Introduction to Kubernetes, the cluster architecture of kubernetes
- Creating a Kubernetes cluster
- What is YAML, creating YAML with kubernetes deployment
- Kubernetes rolling updates, using an app with the dashboard

10. Puppet Configuration Management Tool

- Introduction to puppet
- Architecture of
- How the Puppet Configuration Management Tool Works
- Puppet Configuration Management Architecture
- Different Components of Puppet Architecture

11. Chef

- Chef Fundamentals, Chef Environment, Chef Cookbooks & Knife Commands
- Node Object & Search, Data-bags, Roles
- Deploying Nodes in Production and using the open source chef server, vagrant file

12. Ansible

- Introduction to Ansible.
- Configuration, Writing Ansible Playbooks
- Ansible Based Configuration Management
- Different Roles
- Command Line usage

13. Nagios Performance and Automation Monitoring

- What is Nagios?
 - DevOps monitoring with Nagios
 - Features of Nagios
 - Nagios Architecture
 - Study about Commands, Objects and Notifications
Configuring Nagios in Monitoring Web Server
-

Contact the Training Adviser for Customized Content

www.TechSkillTrainings.com | info@techskilltrainings.com | +91-9990627145

