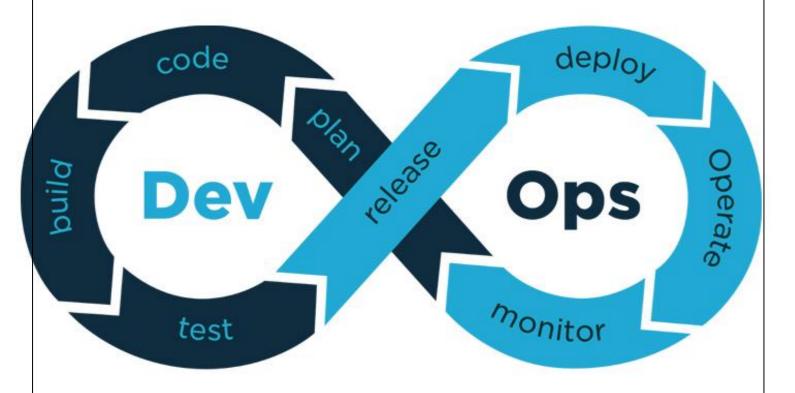
Introduction to DevOps

Development

Operations





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Introduction to devops

Define Devops

What is Devops?

Why DevOps?

Who can Learn DevOps?

What is SDLC?

Diff b/w agile & waterfall

Devops and agile

Devops Functionalities and tools

Source code management

____What is SCM

What is a version control system

Types of version controls

Diff b/w CVS & DVS

Installation of GIT

_Installation in windows

_Installation in centos

Installation in Ubuntu

GIT command line

Initialize GIT repository

Clone Existing GIT Repo

Code check-in & check-out

_Rollback changes

Creating Projects Creating Users Creating Groups Branches Protecting Branches

Git LAB

Install and Configure GitLab in Centos
Creating Projects
_Adding SSH keys
Creating Users
Creating Groups
Branches
_

*Git Rebase Concepts Continuous integration

ration and
lines

	Jenkins master slave configuration Introduction to jenkins CLI Jenkinsfile Scripted pipelines Declarative Pipelines
Build To	ools
	What is Maven? Maven Evolution Objective Convention over Configuration Features of Maven
ENVIRO	NMENT SETUP
	System Requirment
POM	
	Super POM
BUILD I	LIFE CYCLE
	What is Build Lifecycle?Clean LifecycleDefault (or Build) LifecycleSite Lifecycle

REPOSITORIES What is a Maven Repository? **Local Repository Central Repository** Remote Repository Maven Dependency Search Sequence **PLUGINS** What are Maven Plugins? **Plugin Types** *CREATING JAVA PROJECT BUILD AND TEST JAVA PROJECT Adding Java Source Files **Artifact Management** What is Repo Management Install and Configure Sonatype Nexus OSS 3.X Create Repositories in NExus OSS Integrate Nexus OSS with Maven Integrate Nexus OSS with jenkins Upload artifacts into Nexus Repo

Configuration management

____What is cm
____Puppet introduction
____Puppet overview

_Installing puppet on centos

Configuring puppet master and agent

Connecting agent and puppet master

Puppet language basics

Resources

_Using basic resources like file, exec, package service

Resource collectors

Virtual resources

Exported resources Manifests

PUPPET FORGE

___Understanding the puppet forge

_Module struct forge

Install lamp with pre existing modules

Installing apache tomcat with puppet

Ansible

Ansible Overview

Installing Ansible on centos

Inventory File setup

Introduction to Ansible Playbooks

Ansible Ad Hoc Commands

____Ansible Roles
____Ansible Galaxy
___Introduction to Ansible Tower

Containerization

Introduction of Virtualization Introduction of Containerization Dockers vs. VMs **Docker Key Concepts Docker CLI** Docker Daemon **Docker Engine Docker Machine Docker Images Docker Container Docker Architecture** Dockers hub Downloading docker images Understanding the containers **Docker Basic Workflow** Running commands in container Backup (Containers & Images)

Container Orchestration

Dockerfiles

Docker Registry

Docker Volumes

Docker Networking

Configure Docker Swarm Cluster
Adding Nodes to Docker Swarm
Swarm commands
install and configure docker-compose
writing first compose file
deploy stack APP using compose file

Kubernetes

Features of Kubernetes
Architecture of Kubernetes
Install and Configure Kubernetes Cluster
Introduction to Kubectl
Kubernetes Node
Kubernetes Jobs
Kubernetes Service
Kubernetes Pod
Kubernetes Replication Controls
Intro to Kubernetes Network policies

DURATION: - 50 HRS

Key Features

- ➤ Real TimeProjects
- ExamPreparation
- MockTest
- > Job Assistance
- TrainingMaterial
- LabVideos
- ➤ Mock test forCertification
- ResumeUpdating
- InterviewPreparation

WHO SHOULD ATTEND

Students should have at least one year of hands-on experience securing Azure workloads and experience with security controls for workloads on Azure.

PREREQUISITES

Before attending this course, students must have knowledge of:

• Microsoft Azure Administrator Associate.

Course Objectives

After completing this course, students will be able to:

- Describe specialized data classifications on Azure.
- Identify Azure data protection mechanisms.
- Implement Azure data encryption methods.
- Secure Internet protocols and how to implement them on Azure.
- Describe Azure security services and features.