



DEVOPS COURSE CONTENT

LINUX Basics:

Linux File system structure
Basic Linux commands
Changing file permissions and ownership
Types of links soft and hard link
Start and stop services
Find and kill the process with id and name
Package installation using RPM and YUM

Introduction to Devops

What is Devops?
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

Introduction, Installation and configuration of GIT
Creation Repository and adding Content

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Logging

Cloning

Ignoring Content

Branching

Merging and Pushing Updates

Chef for configuration management:

Overview of Chef

Workstation Setup

Organization Setup

Test Node Setup

Node Objects and Search

Environments

Roles

Attributes

Data bags

Jenkins – Continuous Integration

Installation and Configuration of Jenkins

Preparing the Environment -- Build Account

First Jenkins Build

Plugin Management and Builds

Setting up a Build Slave

Launching Job on the Slave Node

Ansible for configuration management

Installation and Configuration of Ansible

Ansible Documentation

Running Ansible commands

Playbook structure with YAML

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Running Adhoc Commands

Manage variables

Manage task control, handlers, and tags in Ansible playbooks.

Implement Jinja2 templates

Implement roles

Create and manage roles.

Configure complex playbooks

Troubleshoot the Ansible control machine and managed nodes.

AWS:

Creating AWS account

Free tier Eligible services

Understanding AWS Regions and availability zones

EC2 (Elastic Cloud Compute):

About EC2 and types, Pricing

Launch Instances in AWS

Connecting instances from windows desktop and Linux machines

S3 (Simple Storage Service):

About AWS Storage services, EBS and S3

Creating S3 Buckets and putting objects in bucket

Discussion about Bucket Properties

EBS (Elastic Block Storage):

Types of EBS Volumes

Creation, attaching and Detaching volumes

ELB (Elastic Load Balancer):

Understanding the load balancing

Configuring ELB and adding the webservers under ELB

Auto Scaling

Configuring Launch Configuration

Creating and defining the auto scaling group policy

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IAM (Identity Access Management):

Understanding of AWS Security using IAM

Definition of Roles, policies and Groups

Creating IAM Users and managing password policies

RDS (Relational Database server):

About RDS and available RDS Engines in AWS

Configuring MYSQL RDS service

Docker– Containers:

Introduction

Architecture

Installation

Docker Hub

Custom images

Docker Networking

Docker Compose

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