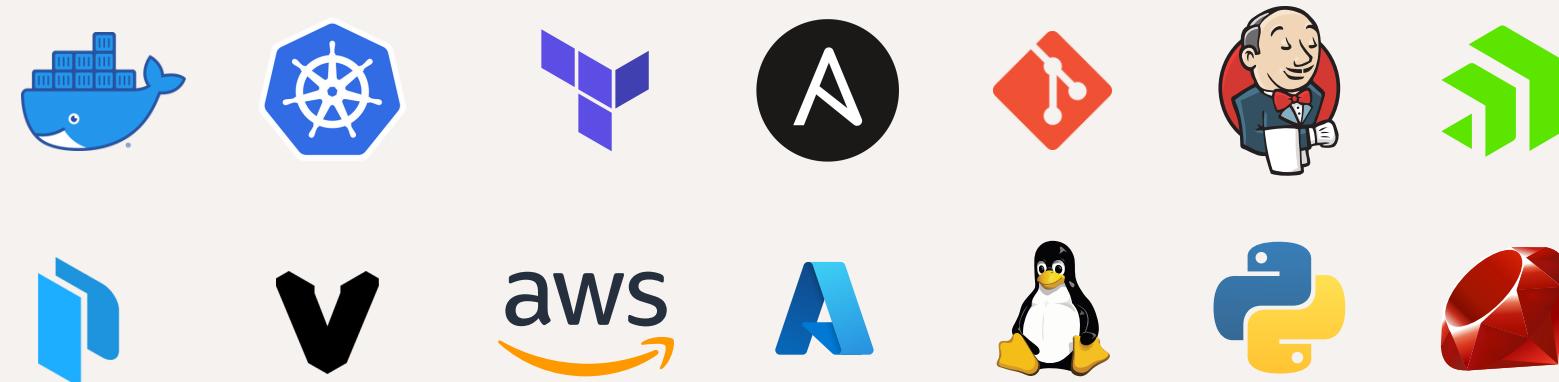
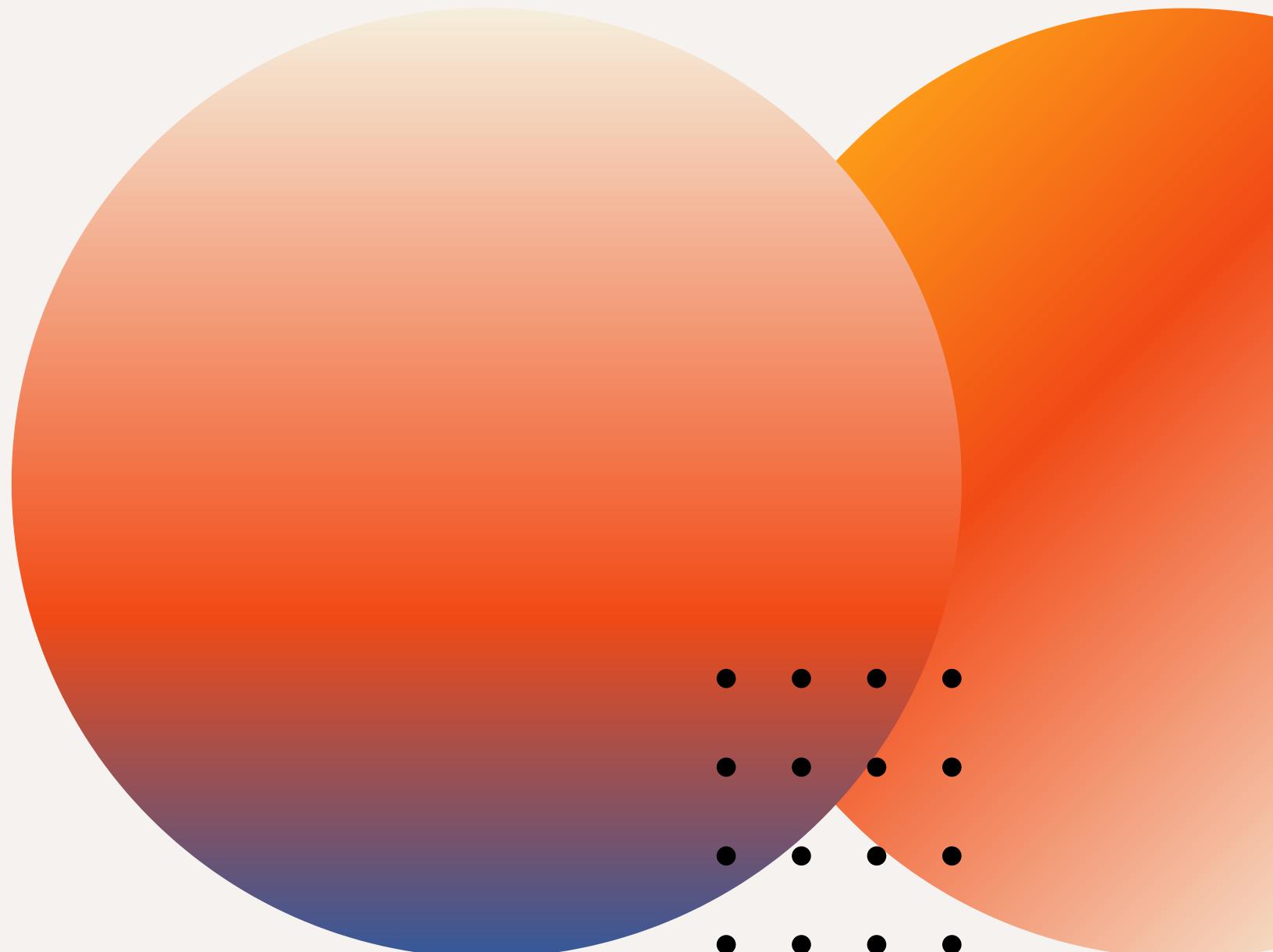


# Fullstack DevOps Engineer

## Including AWS & Azure Cloud



Kickstart your DevOps journey with



# Overview of Topics

Tools



**Docker**



**Kubernetes**



**Chef**



**Ansible**



**Git**



**Jenkins**

⋮ ⋮ ⋮  
⋮ ⋮ ⋮  
⋮ ⋮ ⋮



**Terraform**



**Packer**



**Vagrant**

Cloud



**AWS**



**Azure**

Programming



**Python**



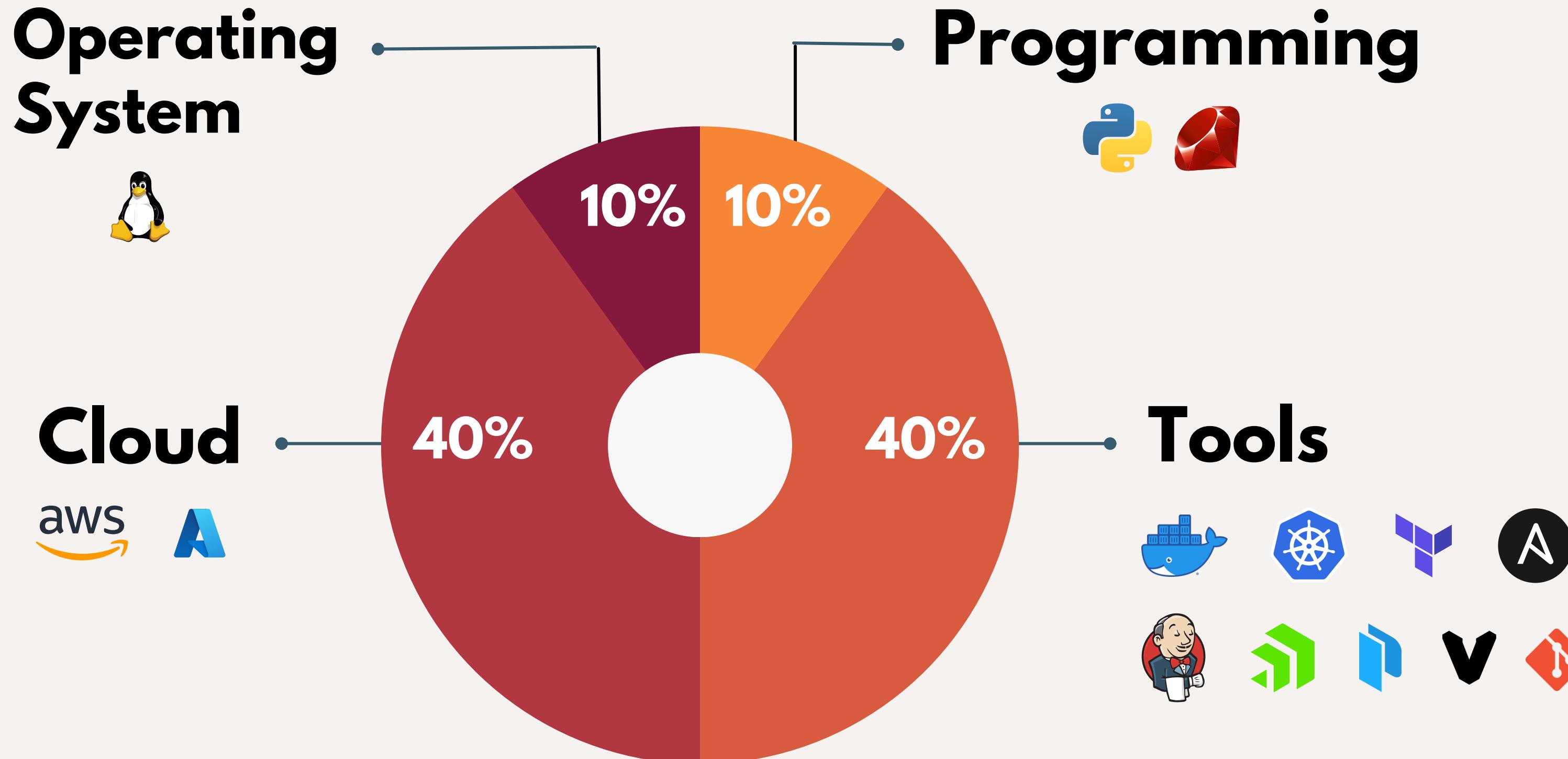
**Ruby**

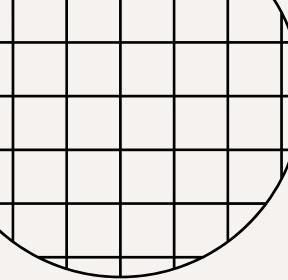
OS



**Linux**

# Proportion of Skills





# Our Approach

## Case Studies

For real-time visualization

## Interactive Digital Whiteboarding

For better conceptual understanding

## Mock Interviews

To test your skills

**320+  
hours of  
session  
duration**

## Session Continuity Program

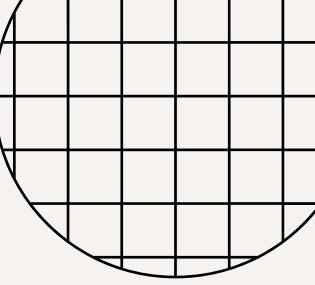
To bridge the gap in hands-on exercises that you missed during previous sessions

## Deep Dives

For in-depth learning

## Hands-on & Projects

# Instant Syncing Book Materials



The screenshot shows a web-based note-taking application interface. At the top, it says "DevOps / Kubernetes Book" with "23 notes". Below is a table of contents:

- 01. Preface: This book is developed for people who wants to get... (Yesterday)
- 02. Introduction to Kubernetes: What is Docker? Docker is a set of coupled SaaS and PaaS products that use operatin... (17 Mar)
- 03. Key Components in Kubernetes: Kubernetes Node A Kubernetes Node is a VM or a physical machine that serves as a... (18 Apr 2022)
- 04. Overview of Kubernetes: Architecture of Kubernetes... (28 Apr)
- 05. FAQ on Kubernetes: What is the difference between Kubernetes and Docker? What is container runtime in... (Yesterday)
- 06. Prerequisites for Kubernetes: Install VirtualBox VirtualBox is a hypervisor

Web & Mobile access

The mobile phone screen displays a note titled "Install Kubernetes". The note content includes:

- Swap memory should be totally disabled on all the nodes of the Kuber...
- Security-Enhanced Linux (SELinux)** must be configured to run in p...
- Apply accurate **Linux kernel params** recommended by Kubernetes

Below the note is a code block:

```
# Set SELinux in permissive mode.  
$ sudo setenforce 0  
$ sudo sed -i 's/^SELINUX=enforcing$/SELINUX=permissive/' /etc/selinux/config
```

Further down, another code block is shown:

```
# Permanently disable Linux swap memory.  
$ sudo swapoff -a  
$ sudo vim /etc/fstab  
#/swapfile none swap defaults 0 0
```

At the bottom, there is a diagram titled "Architecture of Kubernetes-managed Docker Containers" showing the hierarchical structure of a Kubernetes cluster.

Instant auto sync

Get updates even after course completion

# Our Contributions to Open Source



**sloopstash**  
A cloud software provider to enhance team productivity and infrastructure security of IT and remote teams.

17 followers   India   <https://sloopstash.com>   [company/sloopstash](#)   [c/sloopstash](#)   [@sloopstash](#)   [sloopstash](#)   Verified

Pinned Order updated.   Customize pins

**kickstart-docker** Public  
The ultimate aim of this Docker starter-kit is to help you deploy a sample CRM app service and Redis database service on Docker containers.  
Dockerfile   8 stars   54 forks

**kickstart-kubernetes** Public  
The ultimate aim of this Kubernetes starter-kit is to help you deploy a sample CRM app service and Redis database service on Docker containers in Kubernetes cluster.  
Ruby   8 stars   44 forks

**kickstart-terraform** Public  
The ultimate aim of this Terraform starter-kit is to help you automate infrastructure provisioning on AWS cloud using Terraform configuration for running a sample CRM app service and Redis database...  
HCL   4 stars   21 forks

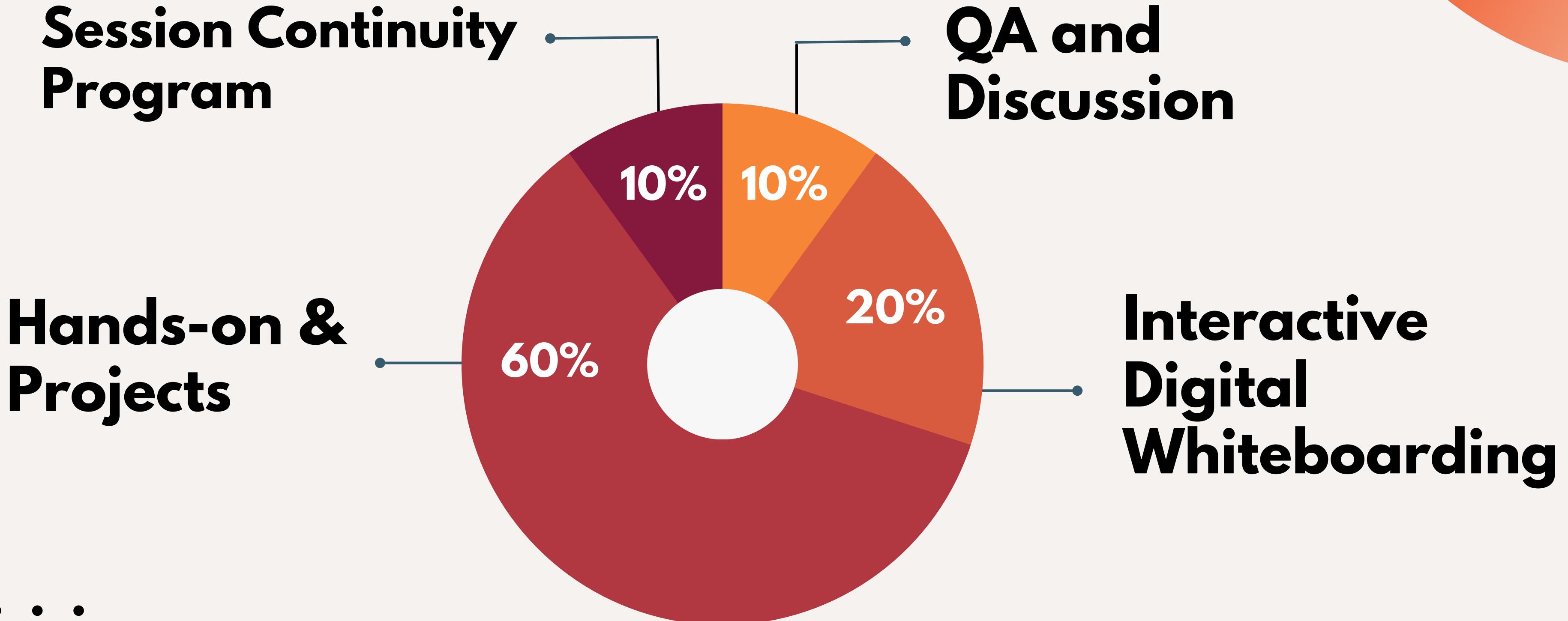
**kickstart-aws** Public  
The ultimate aim of this AWS starter-kit is to help you provision and manage AWS resources that is required to deploy a sample CRM app service and Redis database service on AWS cloud.  
Python   4 stars   12 forks

**kickstart-ansible** Public  
The ultimate aim of this Ansible starter-kit is to help you deploy a sample CRM app service and Redis database service on Docker containers in singlshot using Ansible playbooks and Ansible roles.  
Jinja   5 stars   23 forks

**kickstart-jenkins** Public  
The ultimate aim of this Jenkins starter-kit is to help you run build/test of sample CRM app using Jenkins freestyle and pipeline projects.  
Dockerfile   2 stars   18 forks



# Proportion of Each Session

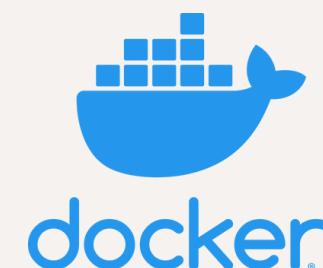


# Mini Projects

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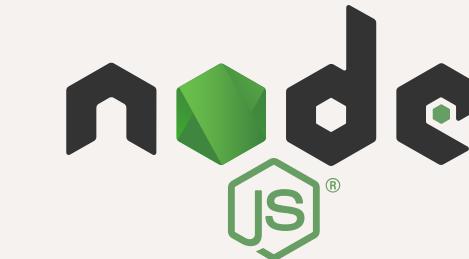
- Running NodeJS+MongoDB stack on standalone Docker engine.
- Building Apache Kafka and Hadoop clusters in self-managed Kubernetes.
- Deploying Kubernetes cluster using Chef and Ansible.
- Implementing CI/CD pipeline for NodeJS+MongoDB stack.



docker



kubernetes

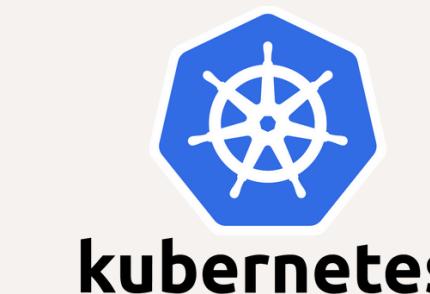


# Major Projects

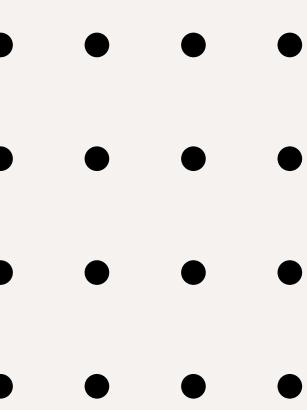
---



- Deploy Hadoop in Kubernetes on Azure cloud using Terraform and Ansible
- Deploy Kafka in Kubernetes on AWS cloud using Terraform and Chef



# Google Reviews



Vivek Selvam 

I have joined for DevOps course with Inceptez Technologies. The classes were impressive and have gained very good knowledge. They have the clear roadmap for DevOps course. It starts with the basic Linux and completing the course with Terraform. You can gain very good knowledge. The classes taken by John and Satya were very clear. They will explain the things from layman point of view. The course would take around 10 months to compl. If you are practising the course content on regular bases, you will get the job before the course tenure. I have attended couple of interviews during for DevOps and got offer from an MNC for DevOps position. I strongly recommend peoples to join the DevOps course here. Also, the course content is very good and neatly presented with Evernote. You will get lifetime access to the Evernote. The thing is, they are keep updating the Evernote as per the market trending. So, you will get course content updates as per the current. Thanks John, Satya and Sujan for your support.

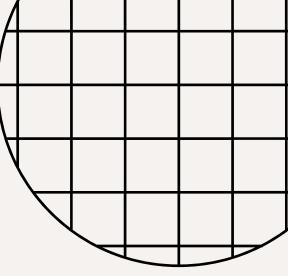
Swetha Jayapathy 

Best place to actually learn Software/Data/DevOps related technologies. I attended the Devops course here and felt its one of the top notch institue in preparing professionals from scratch. I would say that they are much much better than the courses which are offered in the Universities. I am a Master's student from one of the reputed Univerity in USA and I felt that the coursework and training over here were so much worthy than what I have learned so far. They are teaching from the most fundamental area so that everyone can understand and moreover they provide hands on sessions along with the theoretical sessions which are the best. The documents and materials are the best that I have ever seen as its covers all areas with atmost detail. This course helped me to gain very good knowledge in Linux, AWS, Docker, Kubernetes, Jenkins, Git, Chef, Ansible and Software designs/Architechture. I highly recommend this course to people who are self motivated in learning and upgrading themselves.

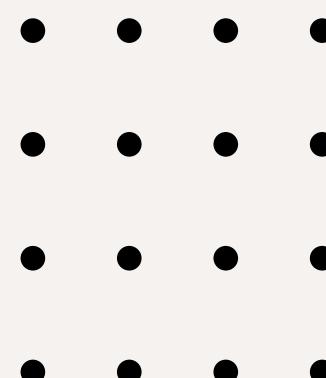
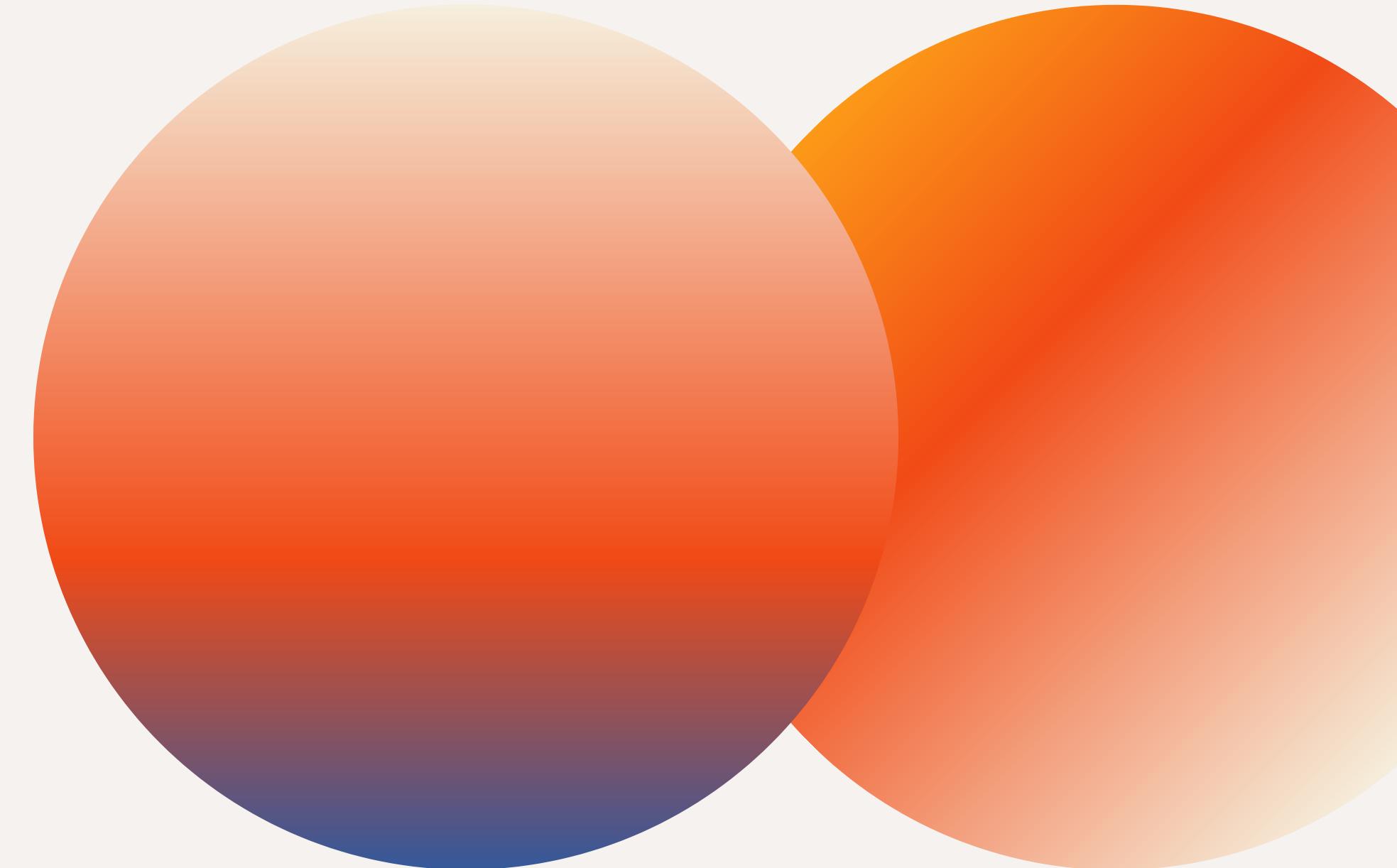
Check Our Google Reviews 4.9

 850+ reviews

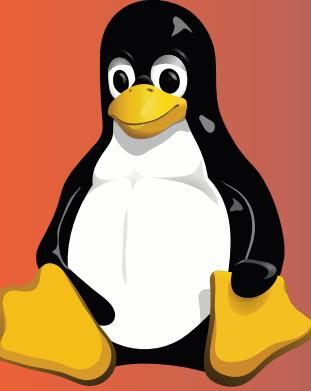




# Full Course Content



# Linux

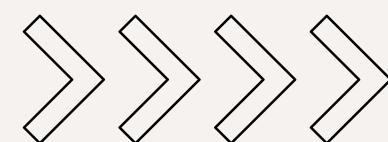


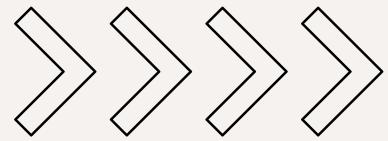
## Introduction to Linux

- What is Operating System?
- What is Linux?
- What is Linux Distro?
  - Major Linux Distros
- History of Linux

## Key Components in Linux

- Kernel
- Terminal
- Shell
- User
- Group
- Partition
- Filesystem
- Process
- Package
- Service
- Network
- SSH
- Text Processor





# Linux

## Overview of Linux

- Architecture of Linux
  - User Space
  - Kernel Space
- Linux vs Windows

## FAQ on Linux

## Prerequisites for Linux

## Kernel

- What is the Purpose of Kernel?
- Types of Kernel Architecture
- Understanding Linux Kernel
  - How Linux Kernel Bootstraps?
  - How Linux Kernel Works?

## Terminal

- What is the Purpose of Terminal?
  - Major Terminal Emulators
- What is TeleType Terminal (PTY)?
- Understanding TeleType Terminal (PTY)

- What is Psuedo Terminal (PTY)?
- Understanding Psuedo Terminal (PTY)

## Shell

- What is the Purpose of Shell?
  - Major Shells
- Understanding Shell
- Manage Shells
- What is Environment Variable?
- Manage Environment Variables in Shell

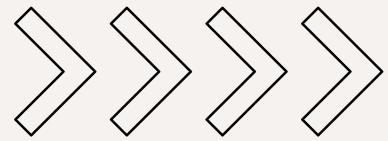
## User

- What is the Purpose of User?
- What is Sudo User?
- Understanding User
- Manage Users

## Group

- What is the Purpose of Group?
- Understanding Group
- Manage Groups

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# Linux

## Partition

- What is the Purpose of Partition?
- Understanding Partition
- Manage Partitions

## Filesystem

- What is the Purpose of Filesystem?
  - Major Filesystems
- What is INode?
- Understanding Filesystem
  - Major File Types in Linux Filesystem
  - Structure of Filesystem Tree
- Manage Filesystems
- Understanding Ownership & Permission in Filesystem
- Manage Ownerships & Permissions in Filesystem

## Process

- What is the Purpose of Process?
- Understanding Process
  - Structure of Process Tree

- Control Process Lifecycle Using Signals
- Schedule Process Using Crontab
  - Crontab Syntax
  - Manage Crontab
- Manage Processes

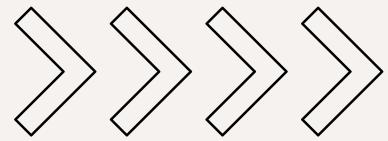
## Package

- What is the Purpose of Package?
- What is Package Manager?
- Understanding Package
- Manage Packages

## Service

- What is the Purpose of Service?
- What is Daemon?
- What is Systemd?
- Understanding Service
- Manage Services

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# Linux

## Network

- What is the Purpose of Network?
- Understanding Network
  - How TCP/IP Network Connection Works?
- Configuring Network Namespace
- What is IP?
- What is Port?
- What is Socket?
  - Raw Socket
  - Stream Socket
  - Datagram Socket
- Manage Networks

## Useful Commands

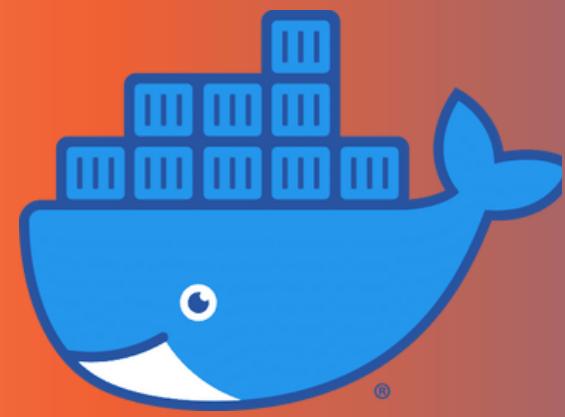
## SSH

- What is the Purpose of SSH?
  - Major Tools Using SSH
- Understanding SSH
- History of SSH
- Install & Configure SSH Server
- Configure SSH Key-based Authentication
- Do's and Dont's with SSH

## Text Processor

- What is the Purpose of Text Processor?
- Understanding Text Processor

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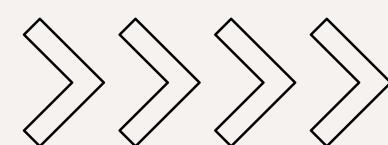
# Docker

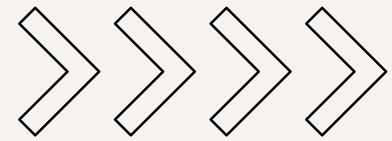
## Introduction to Docker

- Progression of Architectures
  - Understanding Monolithic Architecture
  - Understanding Service Oriented Architecture (SOA)
  - Understanding Microservice Architecture
  - How Container Technology Solves the Complexity of Microservice Architecture?
- What is Container?
  - Benefits of Container
- Evolution of Containers
- What is Docker?
- History of Docker
- What is Open Container Initiative (OCI)?
- What is the Purpose of Open Container Initiative (OCI)?
- What is Moby?

## Key Components in Docker

- Docker Image
- Docker Network
- Docker Storage
- Docker Container
- Docker Compose





## Overview of Docker

- Architecture of Docker-managed Containers
  - Docker Client
  - Docker Daemon
  - Docker Image
  - Docker Container
  - Docker Network
  - Docker Storage
  - Docker Registry
- Container vs VM

## FAQ on Docker

## Prerequisites for Docker

- Understanding JSON

## Setup Docker

- What is Containerd?
- Install Docker
- Significance of Docker Programs
- Manage Docker
- Deep Dive into Docker

## Configure Docker

- Understanding Docker Configurations
- Change Storage & Log Driver of Docker
- Apply Configuration Changes to Docker
- Understanding Docker System Paths

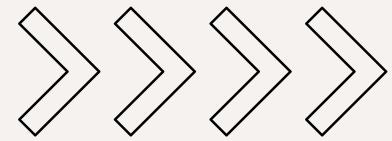
## Docker Image

- What is the Purpose of Docker Image?
- Deriving Docker Images
  - Tree Structure of Derived Docker Images
  - Benefits of Deriving Docker Images
- Build Docker Image Manually
- Understanding Dockerfile
- Automate Build of Docker Images Using Dockerfile
- Manage Docker Images
- Deep Dive into Docker Image
- Do's and Dont's with Docker Image

## Docker Network

- What is Container Network Model (CNM)?
- What is the Purpose of Docker Network?

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- Types of Docker Network
- How to Choose a Docker Network?
- Manage Docker Networks
  - Using Host Docker Network
  - Using None Docker Network
  - Using Bridge Docker Network
  - Using IPvlan Docker Network
  - Using Macvlan Docker Network

## Docker Storage

- What is the Purpose of Docker Storage?
- Types of Docker Storage
- How to Choose a Docker Storage?
- Manage Docker Storage
  - Using Volume Docker Storage
  - Using Bind Mount Docker Storage
  - Using Tmpfs Mount Docker Storage

## Docker Container

- What is the Purpose of Docker Container?
- Understanding Docker Container

- How Docker Container is Created?
- How Docker Container Lifecycle is Controlled?
- Analyzing Docker Container Configurations
- What is Supervisor?
- Managing Microservices within Docker Container Using Supervisor
- Design Highly Scalable Docker Container
- Provision Docker Containers Manually
- Manage Docker Containers
- Deep Dive into Docker Container
- Do's and Dont's with Docker Container

## Docker Compose

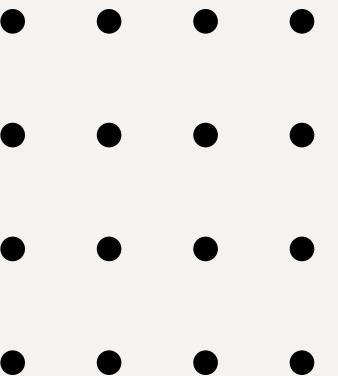
- Understanding YAML
  - What is the Purpose of Docker Compose?
  - Install Docker Compose
  - Understanding Docker Compose YAML
  - Structure of Docker Compose YAML
  - Automated/Orchestrated Provisioning of Docker Containers Using Docker Compose
  - Manage Docker Containers Using Docker Compose
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# Kubernetes



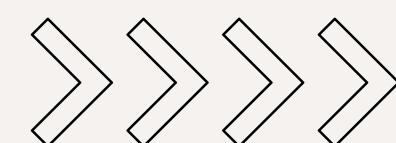
## Introduction to Kubernetes

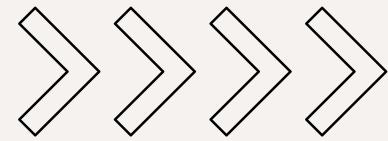
- What is Docker?
- What is Cloud Native Computing Foundation (CNCF)?
- Understanding Container Clustering & Orchestration
  - Major Container Clustering & Orchestration Tools/Services
  - Benefits of Container Clustering & Orchestration
- What is Kubernetes?
- Understanding Kubernetes
- What is Container Runtime Interface (CRI)?
- What is Container Network Interface (CNI)?
- History of Kubernetes



## Key Components in Kubernetes

- Kubernetes Node
- Kubernetes Metrics Server
- Kubernetes Dashboard
- Kubernetes PersistentVolume
- Kubernetes Namespace
- Kubernetes ConfigMap
- Kubernetes StatefulSet
- Kubernetes Deployment
- Kubernetes Pod
- Kubernetes Service





# Kubernetes

- Kubernetes Ingress
- Kubernetes Role
- Kubernetes ClusterRole

## Overview of Kubernetes

- Architecture of Kubernetes-managed Docker Containers
  - Kubernetes API Server
  - Etcd
  - CoreDNS
  - Kubernetes Scheduler
  - Kubernetes Controller Manager
  - Kubernetes Agent
  - Kubernetes Proxy
- Kubernetes vs Swarm

## FAQ on Kubernetes

### Prerequisites for Kubernetes

- Install Kubernetes Client
- Using Virtual Machines as Kubernetes Nodes
- Boot Virtual Machines for Kubernetes Nodes
- Manage Virtual Machines of Kubernetes Nodes

### Setup Kubernetes

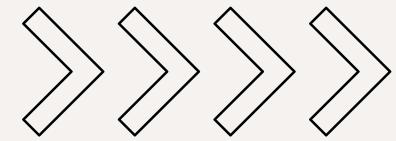
- Install & Configure Docker
- Install & Configure Docker CRI
- Install Kubernetes
- Significance of Kubernetes Programs
- Manage Kubernetes

### Configure Kubernetes

- Initialize Kubernetes Cluster
- Join Nodes to Kubernetes Cluster
- Understanding Kubernetes System Paths
- Prepare Nodes in Kubernetes Cluster
- Manage Tokens in Kubernetes Cluster
- Configure Kubernetes User
- Deep Dive into Kubernetes Cluster

### Kubernetes Node

- What is the Purpose of Kubernetes Node? . . . . .
- Provision Highly Scalable Kubernetes Nodes . . . . .
  - Scaling Master Kubernetes Nodes . . . . .
  - Scaling Worker Kubernetes Nodes . . . . .
- Manage Kubernetes Nodes . . . . .



# Kubernetes

## Kubernetes Metrics Server

- What is the Purpose of Kubernetes Metrics Server?
- Create Kubernetes Metrics Server
- Manage Kubernetes Metrics Server

## Kubernetes Dashboard

- What is the Purpose of Kubernetes Dashboard?
- Create Kubernetes Dashboard
- Manage Kubernetes Dashboard

## Kubernetes PersistentVolume

- What is the Purpose of Kubernetes PersistentVolume?
- Create Kubernetes PersistentVolume
- Manage Kubernetes PersistentVolumes

## Kubernetes Namespace

- What is the Purpose of Kubernetes Namespace?
- Understanding Kubernetes Namespace
- Create Kubernetes Namespace
- Manage Kubernetes Namespaces

## Kubernetes ConfigMap

- What is the Purpose of Kubernetes ConfigMap?
- Create Kubernetes ConfigMap
- Manage Kubernetes ConfigMaps

## Kubernetes StatefulSet

- What is the Purpose of Kubernetes StatefulSet?
- Create Kubernetes StatefulSet
- Manage Kubernetes StatefulSets

## Kubernetes Deployment

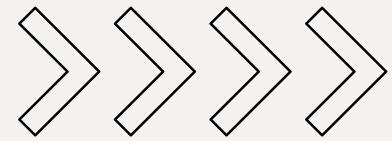
- What is the Purpose of Kubernetes Deployment?
- Create Kubernetes Deployment
- Manage Kubernetes Deployments

## Kubernetes Pod

- What is the Purpose of Kubernetes Pod?
- Understanding Kubernetes Pod
- Manage Kubernetes Pods

## Deep Dive into Kubernetes Pod

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# Kubernetes

## Kubernetes Service

- What is the Purpose of Kubernetes Service?
- Ways to Expose Kubernetes Service
- Create Kubernetes Service
- Manage Kubernetes Services
- Deep Dive into Kubernetes Service
  - How Kubernetes Service Discovery Works?

## Kubernetes Ingress

- What is the Purpose of Kubernetes Ingress?
- Understanding Kubernetes Ingress Controller
- Create Kubernetes Ingress Controller
- Create Kubernetes Ingress
- Manage Kubernetes Ingresses
- Manage Kubernetes Ingress Controllers

## Kubernetes Role

- What is the Purpose of Kubernetes Role?
- Create Kubernetes Role
- Create Kubernetes RoleBinding
- Manage Kubernetes RoleBindings
- Manage Kubernetes Roles

## Kubernetes ClusterRole

- What is the Purpose of Kubernetes ClusterRole?
- Create Kubernetes ClusterRole
- Create Kubernetes ClusterRoleBinding
- Manage Kubernetes ClusterRoleBindings
- Manage Kubernetes ClusterRoles

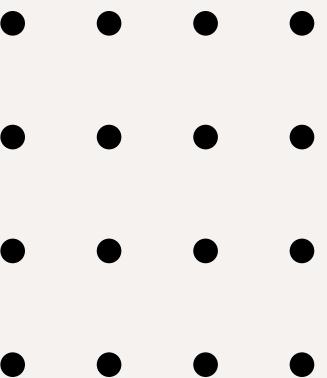
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# Chef

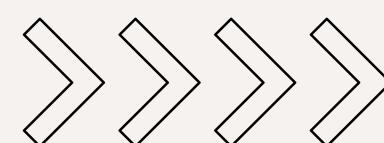
## Introduction to Chef

- Infrastructure Management
- What is Deployment?
  - Major Deployment Tools
  - Benefits of Automated Deployment
- Understanding Deployment Matrix
  - Deployment Matrix for App Services
  - Deployment Matrix for Data Services
- What is Chef?
- History of Chef



## Key Components in Chef

- Chef Automate
- Chef Infra Server
- Chef Manage
- Chef Workstation
- Chef Cookbook
- Chef Data Bag
- Chef Environment
- Chef Role
- Chef Node
- Chef InSpec





## Overview of Chef

- Architecture of Chef-managed Deployments
  - Chef Infra Server
  - Chef Manage
  - Chef Workstation
  - Chef Node
  - Chef Infra Client
  - Chef Cookbook
- Chef vs Ansible

## FAQ on Chef

### Prerequisites for Chef

- Using Virtual Machines for Chef Automate and Chef Infra Server
- Boot Virtual Machines for Chef Automate and Chef Infra Server
- Manage Virtual Machines of Chef Automate and Chef Infra Server

### Chef Automate

- What is the Purpose of Chef Automate?

- Install Chef Automate
- Significance of Chef Automate Programs
- Configure Chef Automate
- Understanding Chef Automate System Paths
- Create API Token in Chef Automate
- Manage Chef Automate

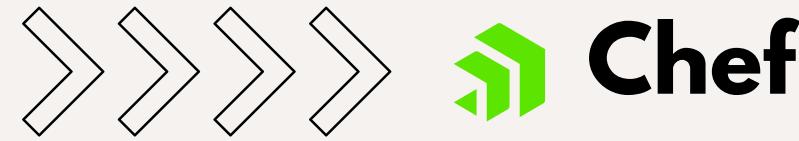
### Chef Infra Server

- What is the Purpose of Chef Infra Server?
  - Install Chef Infra Server
  - Significance of Chef Infra Server Programs
  - Configure Chef Infra Server
    - Configure Chef Infra Server to Send Data to Chef Automate
  - Understanding Chef Infra Server System Paths
  - Manage Chef Infra Server Using Chef Automate
    - Add Chef Infra Server
    - Add Organization of Chef Infra Server
  - Manage Chef Infra Server
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### Chef Manage

- What is the Purpose of Chef Manage?

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- Install Chef Manage
- Significance of Chef Manage Programs
- Configure Chef Manage
- Understanding Chef Manage System Paths
- Manage Chef Manage

## Chef Workstation

- What is the Purpose of Chef Workstation?
- Install Chef Workstation
- Significance of Chef Workstation Programs
- Configure Chef Workstation
- Understanding Chef Workstation System Paths
- Do's and Dont's with Chef Workstation

## Chef Cookbook

- What is the Purpose of Chef Cookbook?
- Structure of Chef Cookbook
- Writing Chef Cookbook
- Manage Chef Cookbooks
- Do's and Dont's with Chef Cookbook

## Chef Data Bag

- What is the Purpose of Chef Data Bag?
- Create Chef Data Bag
- Manage Chef Data Bags

## Chef Environment

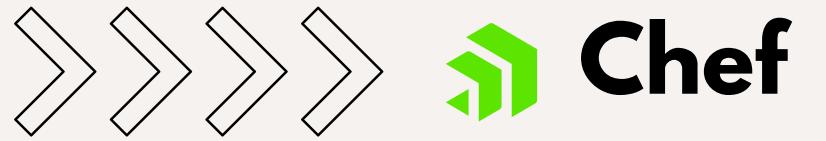
- What is the Purpose of Chef Environment?
- Create Chef Environment
- Manage Chef Environments

## Chef Role

- What is the Purpose of Chef Role?
- Create Chef Role
- Manage Chef Roles

## Chef Node

- Understanding Deployment on Chef Nodes
- Using Docker Containers as Chef Nodes
- Boot Chef Nodes



- Bootstrap Chef Nodes
  - Bootstrap Workflow in Chef Node
- Trigger Deployment on Chef Nodes
- Manage Chef Nodes

## Chef InSpec

- What is the Purpose of Chef InSpec?
- Manage Chef InSpec Using Chef Automate
  - Create Credential
  - Download Profile
  - Add Nodes
  - Create Scan Job

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# Ansible



## Introduction to Ansible

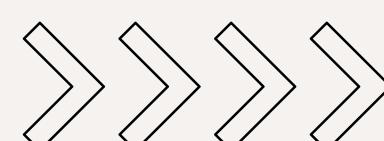
- Infrastructure Management
- What is Deployment?
  - Major Deployment Tools
  - Benefits of Automated Deployment
- Understanding Deployment Matrix
  - Deployment Matrix for App Services
  - Deployment Matrix for Data Services
- What is Ansible?
- History of Ansible

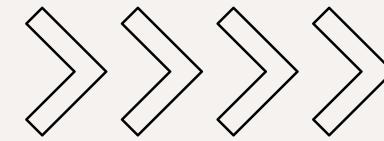
## Key Components in Ansible

- Ansible Control Machine
- Ansible Inventory
- Ansible Playbook
- Ansible Role
- Ansible Vault
- Ansible Node
- Ansible Tower

## Overview of Ansible

- Architecture of Ansible-managed Deployments
  - Ansible Control Machine





- Ansible Inventory
- Ansible Playbook
- Ansible Role
- Ansible Node
- Ansible vs Chef

- Understanding Ansible Control Machine System Paths
- Deep Dive into Ansible Control Machine
  - How Ansible Control Machine Executes Playbook/Role?
- Do's and Dont's with Ansible Control Machine

## FAQ on Ansible

### Prerequisites for Ansible

- Understanding YAML

### Ansible Control Machine

- What is the Purpose of Ansible Control Machine?
- Install Ansible
- Significance of Ansible Control Machine Programs
- Understanding Ansible Control Machine Configurations
- Configure Ansible Control Machine
- Configure Highly Scalable Ansible Control Machine

### Ansible Inventory

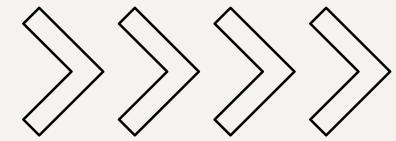
- What is the Purpose of Ansible Inventory?
- Manage Ansible Inventories

### Ansible Playbook

- What is the Purpose of Ansible Playbook?
- Structure of Ansible Playbook
- Writing Ansible Playbook
- Manage Ansible Playbooks
- Do's and Dont's with Ansible Playbook

### Ansible Role

- What is the Purpose of Ansible Role?
- Structure of Ansible Role
- Writing Ansible Role



- Manage Ansible Roles
- Do's and Dont's with Ansible Role

## Ansible Vault

- What is the Purpose of Ansible Vault?
- Create Encrypted File Using Ansible Vault
- Create Encrypted String Using Ansible Vault
- Manage Encryption Using Ansible Vault

## Ansible Node

- Understanding Deployment on Ansible Nodes
- Using Docker Containers as Ansible Nodes
- Boot Ansible Nodes
- Trigger Deployment on Ansible Nodes
- Manage Ansible Nodes

## Ansible Tower

- What is the Purpose of Ansible Tower?
- Setup & Configure Ansible Tower
- Using Ansible Tower
  - Create Organization

- Create Team
- Create Inventory
- Create Host
- Create Group
- Create Credential
- Create Project
- Create Job Template
- Boot Ansible Nodes
- Trigger Deployment on Ansible Nodes
- Manage Ansible Tower

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# Git

## Introduction to Git

- Getting Started with Software Development
- What is Version Control System (VCS)?
  - Major VCS Tools
  - Benefits of VCS
- What is Git?
- History of Git

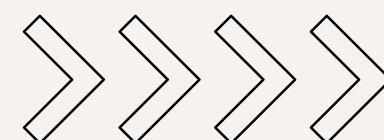
## Key Components in Git

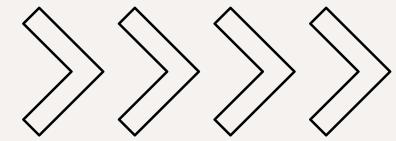
- Git Repository
- Git Service Provider
- Git Workflow

## Overview of Git

- Architecture of Git-managed Software Development
  - Centralized
  - Distributed
- Git vs Subversion

## FAQ on Git





## Setup Git

- Install Git
- Significance of Git Programs
- Understanding Git System Paths

## Configure Git

- Understanding Git Configurations
- Apply Global Configurations in Git

## Git Repository

- What is the Purpose of Git Repository?
- Tree Structure of Git Repository
- Initialize Git Repository
- Status of Git Repository
- Ignore Unwanted Files and Paths in Git Repository
- Add Source Tree to Git Repository
- Commit Changes to Git Repository
- Manage Git Repositories
- Deep Dive into Git Repository
  - How Push Mechanism Works in Git Repository?

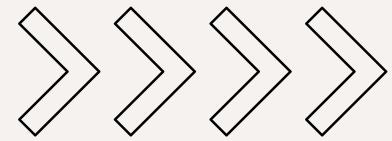
- How Pull Mechanism Works in Git Repository?
- Do's and Dont's with Git Repository

## Git Service Provider

- What is the Purpose of Git Service Provider?
  - Major Git Service Providers
- Understanding Git Service Provider
  - GitHub
  - Bitbucket
  - GitLab
- How to Choose a Git Service Provider?
- Manage SSH Keys with Git Service Provider
- Create Repository in Git Service Provider
- Manage Repositories in Git Service Provider
- Push Changes to Remote Git Repository
- Integrate Git Repository with Jenkins CI Server
- Do's and Dont's with Git Service Provider

## Git Workflow

- What is the Purpose of Git Workflow?
- Architecture of Git Workflow
  - Principles of Git Workflow



- Execute Git Workflow
  - Initialize Git Workflow
  - Clone Git Repository
  - Cherry Pick and Apply Git Commits to a Branch
  - Merge Git Branches
  - Create Release Using Git Tag
  - Ways to Handle Post Deployment Issues
- Do's and Dont's with Git Workflow

## Merge Conflict in Git

- Why Merge Conflict Occurs in Git Repository?
- Simulate Merge Conflict in Git Repository
- Fix Merge Conflict in Git Repository

## Git Stash

- What is the Purpose of Git Stash?
- Stash Changes Before Switching to Another Git Branch

## Git Reset

- What is the Purpose of Git Reset?
- Undo Commits on Branch Using Git Reset

## Git Rebase

- What is the Purpose of Git Rebase?
- Rebasing Scenario in Git Repository
- Rebasing a Branch Using Git Rebase

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# Jenkins

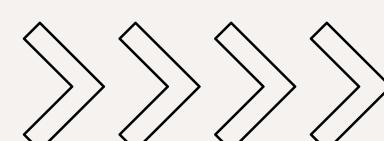


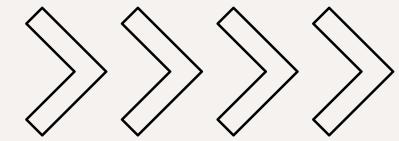
## Introduction to Jenkins

- What is Automated Testing?
- What is Automated Build?
- What is Continuous Integration (CI)?
- What is Continuous Deployment (CD)?
- What is CI/CD Pipeline?
- Understanding CI/CD Pipeline
  - Build Phase in CI/CD Pipeline
  - Test Phase in CI/CD Pipeline
  - Deploy Phase in CI/CD Pipeline
  - Lifecycle of CI/CD Pipeline
- What is Jenkins?
- History of Jenkins

## Key Components in Jenkins

- Jenkins CLI
- Jenkins Node
- Jenkins Freestyle
- Blue Ocean
- Jenkins Pipeline
- Jenkins Multibranch Pipeline





# Jenkins

## Overview of Jenkins

- Architecture of Jenkins-managed Software Build/Testing

## FAQ on Jenkins

## Prerequisites for Jenkins

- Install Ngrok

## Setup Jenkins

- Install Jenkins
- Significance of Jenkins Programs
- Manage Jenkins

## Configure Jenkins

- Understanding Jenkins System Paths
- Unlock Jenkins
- Enable/Disable Jenkins Plugins
- Create Admin User
- Create API Token for User
- Configure Jenkins Location

- Configure E-mail Notification
  - Using Amazon SES as SMTP Service
  - Using Gmail as SMTP Service
- Configure Extended E-mail Notification
  - Using Amazon SES as SMTP Service
  - Using Gmail as SMTP Service
- Configure Agents
- Configure SSH Server
- Enable Ansible Plugin in Jenkins
- Enable Monitoring Plugin in Jenkins

## Jenkins CLI

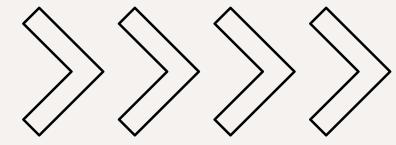
- Install Jenkins CLI
- Configure Jenkins CLI in SSH Mode

## Jenkins Node

- Using Docker Containers as Jenkins Nodes
- Configure Jenkins Node

## Jenkins Freestyle

- What is the Purpose of Jenkins Freestyle?



# Jenkins

- Setup CI/CD Using Jenkins Freestyle
  - General
  - Source Code Management
  - Build Triggers
  - Build Environment
  - Build
  - Post-build Actions
- Trigger CI/CD of Jenkins Freestyle
  - Configure Webhook on GitHub
- Manage Jenkins Freestyles
- Do's and Dont's with Jenkins Freestyle

## Blue Ocean

- What is the Purpose of Blue Ocean?
- Understanding Blue Ocean
- Install Blue Ocean

## Jenkins Pipeline

- What is the Purpose of Jenkins Pipeline?
- Structure of Declarative Jenkins Pipeline

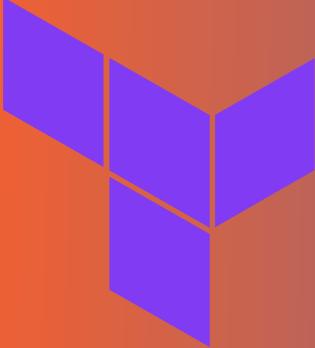
- Setup CI/CD Using Jenkins Pipeline
  - General
  - Build Triggers
  - Pipeline
- Trigger CI/CD of Jenkins Pipeline
  - Configure Webhook on GitHub
- Manage Jenkins Pipelines
- Do's and Dont's with Jenkins Pipeline

## Jenkins Multibranch Pipeline

- What is the Purpose of Jenkins Multibranch Pipeline?
- Setup CI/CD Using Jenkins Multibranch Pipeline
  - General
  - Build Triggers
  - Pipeline
- Trigger CI/CD of Jenkins Multibranch Pipeline
  - Configure Webhook on GitHub
- Manage Jenkins Multibranch Pipelines
- Do's and Dont's with Jenkins Multibranch Pipeline

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# Terraform

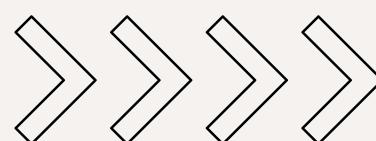


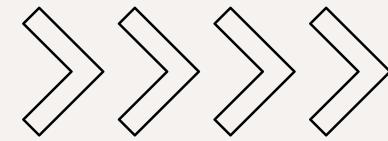
## Introduction to Terraform

- What is Cloud?
- Why Cloud?
- Understanding Cloud
  - IaaS in Cloud
  - PaaS in Cloud
  - SaaS in Cloud
  - Benefits of Cloud
- Infrastructure Management
- What is Provisioning?
  - Major Provisioning Tools/Services
- What is Terraform?
- History of Terraform

## Key Components in Terraform

- Terraform Provider
- Terraform Workspace
- Terraform Configuration
- Terraform Module
- Terraform Cloud





## Overview of Terraform

- Architecture of Terraform-managed Infrastructure Provisioning
  - Terraform Configuration
  - Terraform Provider
  - Terraform Provisioner
  - Terraform Registry
- Terraform vs AWS CloudFormation

## FAQ on Terraform

### Prerequisites for Terraform

- Create AWS Account
- Install AWS CLI

### Setup Terraform

- Install Terraform
- Significance of Terraform Programs

### Terraform Provider

- What is the Purpose of Terraform Provider?
  - Major Terraform Providers

- Understanding Terraform Provider
- Manage Terraform Providers

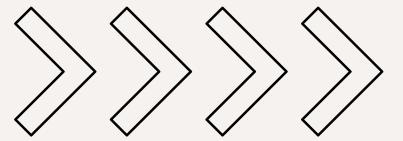
### Terraform Workspace

- What is the Purpose of Terraform Workspace?
- Understanding Terraform Workspace
- Create Terraform Workspace
- Manage Terraform Workspaces
- Do's and Dont's with Terraform Workspace

### Terraform Configuration

- What is the Purpose of Terraform Configuration?
- Structure of Terraform Configuration
- Writing Terraform Configuration
- Initialize Terraform Configuration
- Generate Plan from Terraform Configuration
- Apply Plan of Terraform Configuration
- Manage Terraform Configurations
- Do's and Dont's with Terraform Configuration





## Terraform Module

- What is the Purpose of Terraform Module?
- Structure of Terraform Module
- Writing Terraform Module
- Manage Terraform Modules
- Do's and Dont's with Terraform Module

## Terraform Cloud

- What is the Purpose of Terraform Cloud?
- Understanding Terraform Cloud
- Manage Terraform Cloud
- Do's and Dont's with Terraform Cloud





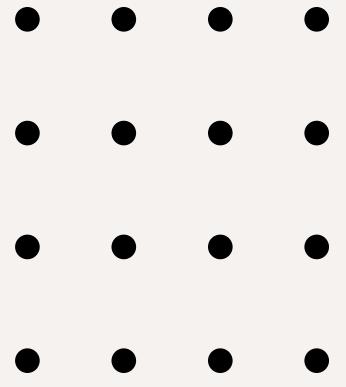
- **Azure RBAC**
- **Azure Virtual Network**
- **Azure Blob Storage**
- **Azure Front Door**
- **Azure Virtual Machine**
- **Azure Automation**
- **Azure DNS**
- **Azure App Service Certificates**
- **Azure Container Registry**
- **Azure Kubernetes Service (AKS)**
- **Azure Resource Manager**

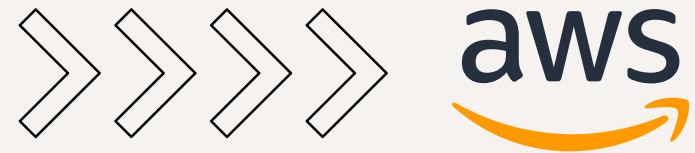
# Amazon Web Services



## Introduction to AWS

- What is Cloud?
- Why Cloud?
- Understanding Cloud
  - IaaS in Cloud
  - PaaS in Cloud
  - SaaS in Cloud
  - Benefits of Cloud
- Infrastructure Management
- What is AWS?
- Why AWS?
  - Value Proposition of AWS
  - Gartner Magic Quadrant Report
- Understanding AWS
  - Ways to Operate AWS Services
- Dealing with AWS Certification
  - Structure of AWS Certification
  - Key Facts about AWS Certification
  - How We Approach AWS Certification?





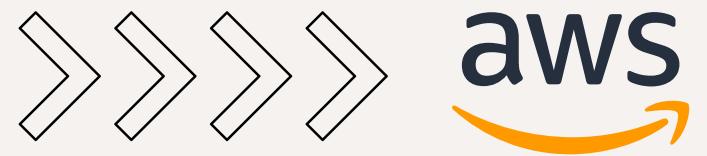
- Our AWS Roadmap
  - Core Services
  - CI/CD Services
  - Container Services
  - Queuing Services
  - Analytics Services
  - Notification Services
  - Email Services
  - Database Services
  - Serverless Services
  - API Services
  - Automated Infrastructure Provisioning Services
  - Extra Services
- History of AWS
- Amazon EC2
- AWS Systems Manager
- Amazon Route 53
- AWS Certificate Manager
- Amazon ECR
- Amazon EKS
- Amazon SQS
- Amazon Kinesis
- Amazon SNS
- Amazon SES
- Amazon RDS
- Amazon DynamoDB
- AWS Lambda
- Amazon API Gateway
- AWS CloudFormation

## Key Services in AWS

- AWS Budgets
- AWS IAM
- Amazon VPC
- Amazon S3
- Amazon CloudFront

## Overview of AWS

- Architecture of AWS Cloud Infrastructure
- Structure of AWS ARN
- Architect Using AWS Core Services
- Architect Using AWS Developer Services



## FAQ on AWS

### Prerequisites for AWS

- Create AWS Account
- Install AWS CLI
- Install Python AWS SDK (Boto3)
- Install Packer
- Understanding JSON

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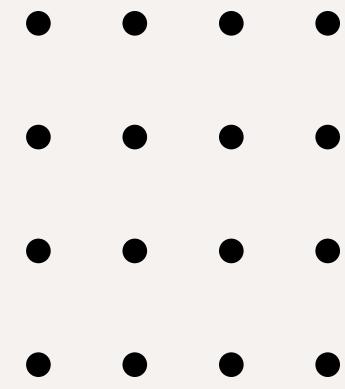


# aws



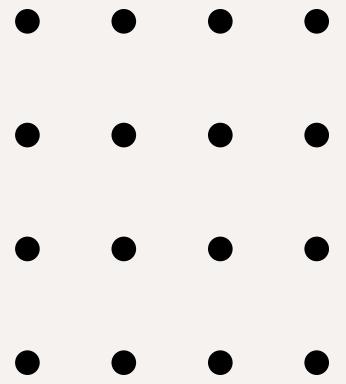
## AWS Budgets

- What is the Purpose of Budgets?
  - Key Components in Budgets
  - Budgets Budget
    - What is the Purpose of Budgets Budget?
    - Create Budgets Budget
  - Do's and Dont's with Budgets
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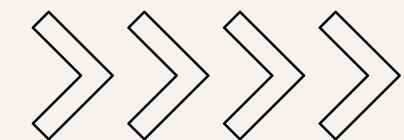
- What is the Purpose of IAM?
- Key Components in IAM
- IAM User
  - What is the Purpose of IAM User?
  - Create IAM User
  - Configure AWS CLI for IAM User
  - Enable MFA for IAM User
- IAM Policy
  - What is the Purpose IAM Policy?
  - Types of IAM Policy
  - Create IAM Policy
- IAM Group
  - What is the Purpose of IAM Group?
  - Create IAM Group
- IAM Role
  - What is the Purpose IAM Role?
  - Create IAM Role
- IAM Access Analyzer
  - What is the Purpose IAM Access Analyzer?
  - Create IAM Access Analyzer
- Do's and Dont's with IAM

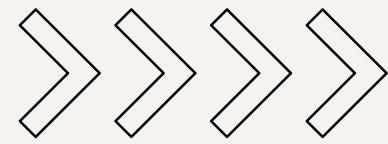




# Amazon VPC

- What is the Purpose of VPC?
- Key Components in VPC
- Understanding VPC
- Architecture of VPC-managed Network
- VPC Network
  - What is the Purpose of VPC Network?
  - Create VPC Network
  - Enable DNS Hostnames on VPC Network
- VPC Internet Gateway
  - What is the Purpose of VPC Internet Gateway?
  - Create VPC Internet Gateway
- VPC Subnet
  - What is the Purpose of VPC Subnet?
  - Types of VPC Subnet
  - Create VPC Subnet
- VPC Elastic IP
  - What is the Purpose of VPC Elastic IP?
  - Allocate VPC Elastic IP
- VPC NAT Gateway
  - What is the Purpose of VPC NAT Gateway?
  - Create VPC NAT Gateway





# Amazon VPC

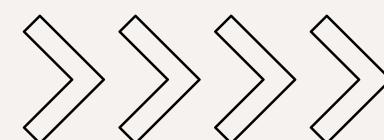
- Create VPC NAT Gateway
- VPC Route Table
  - What is Purpose of VPC Route Table?
  - Create VPC Route Table
- VPC Network ACL
  - What is the Purpose of VPC Network ACL?
  - Update VPC Network ACL
- VPC Prefix List
  - What is the Purpose of VPC Prefix List?
  - Create VPC Prefix List
- VPC Security Group
  - What is the Purpose of VPC Security Group?
  - Create VPC Security Group
- VPC Endpoint
  - What is the Purpose of VPC Endpoint?
  - Types of VPC Endpoint
  - Create Gateway VPC Endpoint
  - Create Interface VPC Endpoint
- VPC DHCP Options Set
  - What is the Purpose of VPC DHCP Options Set?
- Do's and Dont's with VPC

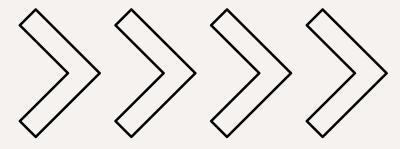
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# Amazon S3

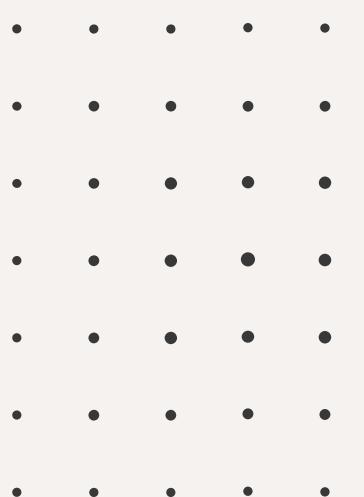
- What is the Purpose of S3?
- Key Components in S3
- Understanding S3
- S3 Bucket
  - What is the Purpose of S3 Bucket?
  - Create S3 Bucket
  - Upload Objects to S3 Bucket
  - Optimize S3 Bucket for High Scalability
  - Encrypting Objects in S3 Bucket
  - Managing Object Versions in S3 Bucket
  - Understanding Storage Classes in S3 Bucket
  - Create Lifecycle Rule in S3 Bucket
  - Create Replication Rule in S3 Bucket
  - Create Inventory Configuration in S3 Bucket
- S3 Access Point
  - What is the Purpose of S3 Access Point?
  - Create S3 Access Point for VPC
  - Create S3 Access Point for Internet
- S3 Batch Operation
  - What is the Purpose of S3 Batch Operation?
  - Upload Manifest Object for S3 Batch Operation





# Amazon S3

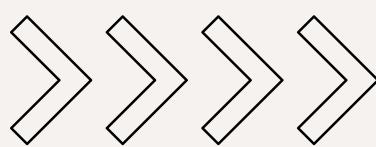
- Create S3 Batch Operation
- Execute S3 Batch Operation
- Do's and Dont's with S3

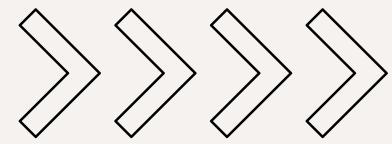




# Amazon CloudFront

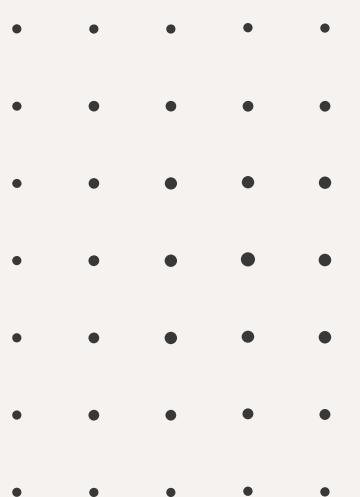
- What is the Purpose of CloudFront?
- Key Components in CloudFront
- Architecture of CloudFront-managed CDN
- CloudFront Policy
  - What is the Purpose of CloudFront Policy?
  - Types of CloudFront Policy
  - Create Cache CloudFront Policy
  - Create Origin Request CloudFront Policy
- CloudFront Origin Access Identity
  - What is the Purpose of CloudFront Origin Access Identity?
  - Create CloudFront Origin Access Identity
- CloudFront Public Key
  - What is the Purpose of CloudFront Public Key?
  - Create CloudFront Public Key
- CloudFront Key Group
  - What is the Purpose of CloudFront Key Group?
  - Create CloudFront Key Group





# Amazon CloudFront

- CloudFront Distribution
  - What is the Purpose of CloudFront Distribution?
  - Create CloudFront Distribution
  - Create Invalidation in CloudFront Distribution
- Do's and Dont's with CloudFront

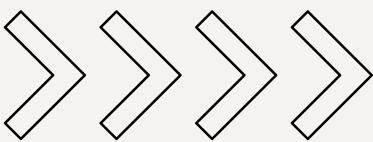


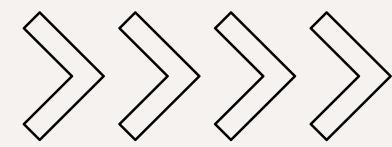


# Amazon EC2

## Amazon EC2

- What is Hypervisor?
  - Major Types of Hypervisor
  - Major Bare Metal Hypervisors
  - Major Hosted Hypervisors
- What is the Purpose of EC2?
- Key Components in EC2
- Understanding EC2
- EC2 Key Pair
  - What is the Purpose of EC2 Key Pair?
  - Create EC2 Key Pair
- EC2 AMI
  - What is the Purpose of EC2 AMI?
  - Build EC2 AMI using Packer
- EC2 Placement Group
  - What is the Purpose of EC2 Placement Group?
  - Understanding EC2 Placement Group
  - Types of EC2 Placement Group
  - Create EC2 Placement Group





# Amazon EC2

- EC2 Launch Template
    - What is the Purpose of EC2 Launch Template?
    - Create EC2 Launch Template
  - EC2 EBS
    - What is the Purpose of EC2 EBS?
    - Types of EC2 EBS
    - How to Choose EC2 EBS Type?
    - Create EC2 EBS Volume
    - Create EC2 EBS Snapshot
  - EC2 Instance
    - What is the Purpose of EC2 Instance?
    - Types of EC2 Instance
    - How to Choose EC2 Instance Type?
    - Launch EC2 Instances
    - Attach EBS Volume to EC2 Instance
    - Prepare EC2 Instances for Ansible-managed Deployment
    - Using EC2 Instances as Ansible Nodes
    - Trigger Deployment on Ansible Nodes
  - EC2 Target Group
    - What is the Purpose of EC2 Target Group?
    - Create EC2 Target Group
  - EC2 ELB
    - What is the Purpose of EC2 ELB?
    - Types of EC2 ELB
    - Create EC2 ELB
  - EC2 Auto Scaling Group
    - What is the Purpose of EC2 Auto Scaling Group?
    - Create EC2 Auto Scaling Group
  - Do's and Dont's with EC2
    - . . . . .
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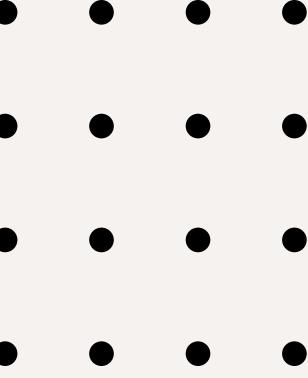
# Amazon Route 53

- What is the Purpose of Route 53?
  - Key Components in Route 53
  - Route 53 Domain
    - What is the Purpose of Route 53 Domain?
    - Register Route 53 Domain
  - Route 53 Hosted Zone
    - What is the Purpose of Route 53 Hosted Zone?
    - Create Route 53 Hosted Zone
    - Create Record in Route 53 Hosted Zone
    - Verify Record in Route 53 Hosted Zone
  - Route 53 Resolver
    - What is the Purpose of Route 53 Resolver?
  - Do's and Dont's with Route 53
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# AWS Certificate Manager

- What is the Purpose of Certificate Manager?
  - Key Components in Certificate Manager
  - Certificate Manager Certificate
    - What is the Purpose of Certificate Manager Certificate?
    - Request Certificate Manager Certificate
  - Do's and Dont's with Certificate Manager
- 





# AWS



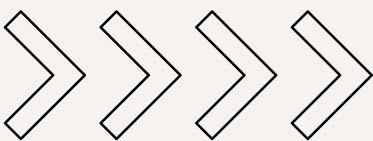
# Amazon ECR

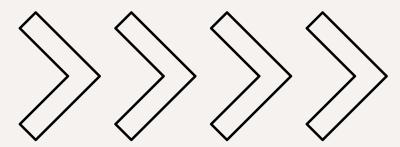
- What is the Purpose of ECR?
  - Key Components in ECR
  - Prerequisites for ECR
    - Update IAM Group to Allow Access to ECR
    - Setup & Configure Docker
    - Pull Docker Image from Docker Hub
  - ECR Repository
    - What is the Purpose of ECR Repository?
    - Create ECR Repository
    - Push Docker Image to ECR Repository
  - Do's and Dont's with ECR
-



# Amazon EKS

- What is the Purpose of EKS?
- Key Components in EKS
- Prerequisites for EKS
  - Create IAM Role to Allow Access to EKS
  - Update IAM Role to Allow Access to EKS
  - Create VPC Subnet for EKS
  - Create VPC Security Group for EKS
  - Launch NAT EC2 Instance for EKS
- EKS Cluster
  - What is the Purpose of EKS Cluster?
  - Create EKS Cluster
- EKS Node Group
  - What is the Purpose of EKS Node Group?
  - Using EC2 Instances as Nodes in EKS Node Group
  - Create EKS Node Group
  - Prepare Nodes in EKS Node Group





# Amazon EKS

- EKS Control Plane
  - What is the Purpose of EKS Control Plane?
  - Install Kubernetes Client
  - Configure Kubernetes User to Access EKS Control Plane
  - Manage EKS Control Plane
- Do's and Dont's with EKS

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# AWS



## Amazon SNS

- What is the Purpose of SNS?
  - Key Components in SNS
  - Understanding SNS
  - Prerequisites for SNS
    - Update IAM Group to Allow Access to SNS
  - SNS Topic
    - What is the Purpose of SNS Topic?
    - Create SNS Topic
  - SNS Subscription
    - What is the Purpose of SNS Subscription?
    - Create SNS Subscription
    - Send Email to SNS Subscriptions
  - Do's and Dont's with SNS
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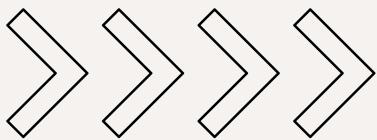


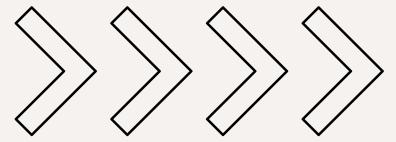
- What is the Purpose of SES?
  - Key Components in SES
  - Understanding SES
  - Prerequisites for SES
    - Update IAM Group to Allow Access to SES
  - SES Configuration Set
    - What is the Purpose of SES Configuration Set?
    - Create SES Configuration Set
  - SES Identity
    - What is the Purpose of SES Identity?
    - Create SES Identity
    - Send Email using SES Identity
  - Do's and Dont's with SES
  - • • •
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# Amazon RDS

- What is the Purpose of RDS?
- Key Components in RDS
- Prerequisites for RDS
  - Create VPC Subnet for RDS
  - Create VPC Security Group for RDS
  - Launch NAT EC2 Instance for RDS
- RDS Subnet Group
  - What is the Purpose of RDS Subnet Group?
  - Create RDS Subnet Group
- RDS Parameter Group
  - What is the Purpose of RDS Parameter Group?
  - Create RDS Parameter Group
- RDS Option Group
  - What is the Purpose of RDS Option Group?
  - Create RDS Option Group





# Amazon RDS

- RDS Instance
  - What is the Purpose of RDS Instance?
  - How to Choose RDS Instance Type?
  - Create RDS Instance
  - Create MySQL Table in RDS Instance
  - Populate Data to MySQL Table in RDS Instance
  - Optimize MySQL Table in RDS Instance for High Scalability
  - Query MySQL Table in RDS Instance
  - Delete MySQL Table in RDS Instance
- RDS Snapshot
  - What is the Purpose of RDS Snapshot?
  - Create RDS Snapshot
- Do's and Dont's with RDS

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# Amazon DynamoDB

- What is the Purpose of DynamoDB?
  - Key Components in DynamoDB
  - Prerequisites for DynamoDB
    - Update IAM Group to Allow Access to DynamoDB
  - DynamoDB Table
    - What is the Purpose of DynamoDB Table?
    - Create DynamoDB Table
    - Populate Data to DynamoDB Table
    - Optimize DynamoDB Table for High Scalability
    - Query and Scan DynamoDB Table
    - Delete DynamoDB Table
  - DynamoDB Backup
    - What is the Purpose of DynamoDB Backup?
    - Create DynamoDB Backup
  - Do's and Dont's with DynamoDB
  - • • •
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# AWS Lambda

- What is the Purpose of Lambda?
  - Key Components in Lambda
  - Understanding Lambda
  - Prerequisites for Lambda
    - Create DynamoDB VPC Endpoint to Connect from Lambda
    - Create IAM Role to Allow Access to Lambda
  - Lambda Function
    - What is the Purpose of Lambda Function?
    - Create Lambda Function
    - Add Python Code to Lambda Function
    - Add Environment Variables to Lambda Function
    - Create Test Event for Lambda Function
  - Do's and Dont's with Lambda
-



# Amazon API Gateway

- What is the Purpose of API Gateway?
  - Key Components in API Gateway
  - Understanding API Gateway
  - API Gateway API
    - What is the Purpose of API Gateway API?
    - Create API Gateway API
  - API Gateway Resource
    - What is the Purpose of API Gateway Resource?
    - Create API Gateway Resource
  - API Gateway Method
    - What is the Purpose of API Gateway Method?
    - Create API Gateway Method
    - Test API Gateway Method
  - API Gateway Stage
    - What is the Purpose of API Gateway Stage?
    - Create API Gateway Stage
  - Do's and Dont's with API Gateway
-



# Extra AWS Services

**AWS Organizations**

**AWS SSO**

**AWS Systems Manager**

**AWS Cost Explorer**

**AWS Trusted Advisor**

**AWS PrivateLink**

**AWS KMS**

**AWS SQS**

**AWS Kinesis**

Special Topic

**Cloud Economics**

# About Us



SloopStash is a cloud software provider to enhance team productivity and infrastructure security of IT and remote teams. SloopStash also provides training and consulting services on numerous trending technologies like DevOps, AWS cloud, and more.



Inceptez Technologies is mastered and administrated by highly skilled industry experts. We are the technology enablers committed to provide comprehensive training to the aspiring professionals in the game changing, high demanding applications such as Big Data, Data Science, DevOps, AWS, GCP, and Azure that are the fastest growing trend setting technologies that provide competitive advantage in the ever changing IT world.

# Contact Us Directly for More Details



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**Thank you**

