DevOps

Amazon Web Services

- IAM (Identity and access management)
- EC2 (Elastic Compute Cloud)
- VPC (Virtual Private Cloud)
- CloudFormation Templates
- EKS (Elastic Kubernetes Services)
- S3 (Simple Storage Service)
- Route53
- Cloudwatch

- Lambda
- ECR (Elastic Container Registry)
- EFS(Elastic File System)
- RDS (Relational Database Service)
- KMS (Key Management Service)
- API Gateway
- EKSCTL
- AWS CLI

Linux & Shell Scripting

Basic commands for DevOps

Shell scripting

Basic programs

Automations

Kubernetes

- Overview
- Containers
- Pods
- Deployments
- Statefulsets
- Configmaps
- Secrets
- RABC

- Nodes
- Taints
- Tolerations
- eks/aks/gke
- Troubleshooting
- Commands
- Upgrades
- Auto Scalers
- Velero

Day-1

Docker

What is docker?

How to develop a docker image?

How to mange docker images?

What are repositories?

Docker commands?

How to update/manage images?

Git

How to mange our source code?

Branching strategies.
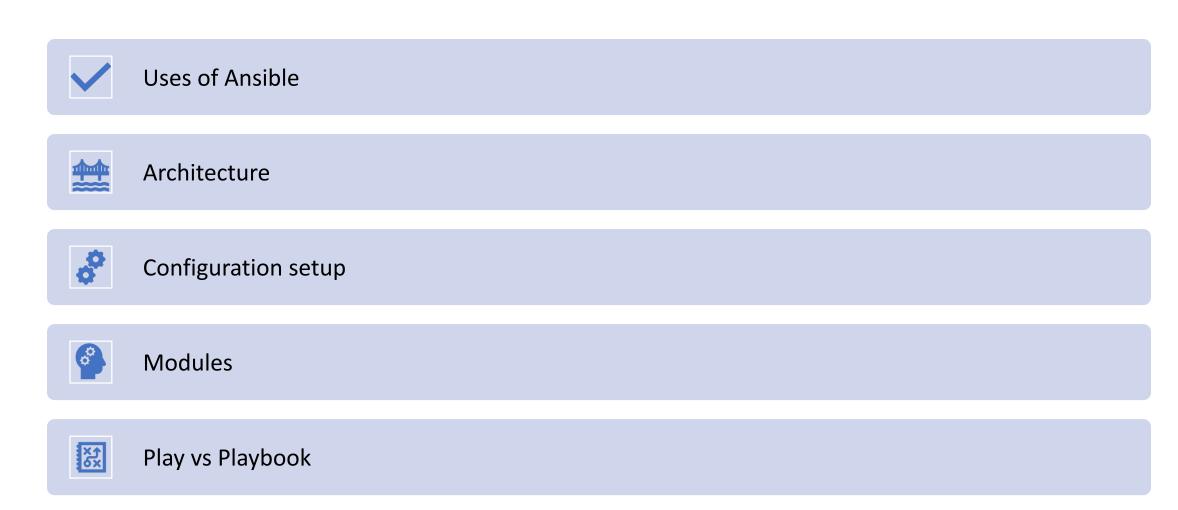
Git commands

Helm

What is helm?

How to develop helm charts?

How to deploy helm charts?

How to maintain helm charts?

How mange cluster using helm charts?

Ansible

- Uses of Ansible

- Architecture

- Configuration setup

- Modules

- Play vs Playbook

Day 1

- What is IAM?
- Users
- Groups
- Roles
- Policies
- Identity Providers