**AWS DevOps Training Plan Outline**

**Learn GIT (1 Lecture):**

**Lecture 1:** Learn how to create and clone Git Repository / AWS CodeCommit Repository

**SDLC {CI/CD} Automation / Linux (6 Lectures):**

**Lecture 1:** AWSCodePipelineIntroductionandAWSCodeCommit Complete setup For AWS Code PipelineSource Stage.

**Lecture 2:** AWS CodeBuild Complete Process and how CodeBuild help in automation and what important factors need to know before build a project.

**Lecture 3:** AWS CodeDeploy and Artifacts, deployments and application.

**Lecture 4:** AWS Linux EC2 Instance [how to make sg,role,keypair].

**Lecture 5:** Deploy a web application on ec2 instance through AWS CodePipeline.

**Lecture 6:** Build and deploy the application from scratch through AWS CodePipeline.

**IAC AWS CloudFormation (4 Lectures):**

**Lecture 1:** How to write the cloudformation in yaml and what best practices we have to followed for template.

**Lecture 2:** Write an s3 bucket cloudformation template with parameters, best practices and condition.

**Lecture 3:** What is nested and root stack and how to create it.

**Lecture 4:** Write the one click deployment stack in yaml form with follow the best practices.

**Terraform (3 lectures):**

**Lecture 1:** Write the simple s3 template through terraform and discuss its command and best practices.

**Lecture 2:** How to write the nested template in terraform with best practices and deploy the some AWS services through it.

**Lecture 3:** Terraform files structures, variables**,** modules and other important concepts.

**Docker and Kubernetes (5 lectures):**

**Lecture 1:** Docker installation, important commands, Docker desktop and create an image and container.

**Lecture 2:** How to write docker file and build our own image of for custom application.

**Lecture 3:** AWS EKS cluster creation and how to connect with it and some of the important commands of k8s.

**Lecture 4:** How to write the deployment and service file and deploy an application on eks cluster.

**Lecture 5:** Autoscaling in k8s and test our own application with integration of k8s, docker and autoscaling.

**Python/CDK (3 lectures):**

**Lecture 1:** Used Python language / CDK Installation and Important Commands.

**Lecture 2:** How to create an s3 bucket through CDK.

**Lecture 3:** How to make the parameter file and parent and child template in CDK.

**AWS Linux Administration (CLI Commands and Configuration) (1 lecture)**

**Total Lectures:** 23 **Lecture Days:** Mon-Fri **Time:**