AWS DevOps

Day1
Theory
Day2
Practical
Assignments/CaseStudy

Agenda

Why AWS DevOps?
1.Git→ Github—>**CodeCommit**
2.Docker → DockerHub—>**ECS/ECR**
3.Jenkins → Pipeline→**CodePipeline/CodeBuild**
4.K8S→ Minikube/Kubeadm/kubectl/**EKS**
5.Configuration Management →
Ansible/**OpsWork/Chef/Puppet**

1.Management effort will decrease.
2.Managed by AWS.
SLA – > 99.9%
3.CloudWatch Integration (logs) . CloudTrail → API call

What is AWS DevOps?
This are the DevOps tools provided/managed by AWS .

Resources

1.CodeCommit
It is the AWS provided Version Control System .
clone,push,pull,direct creation of the file , merge
Visualization →
lines of code , but if you do some changes on to it .
ssh/**https**

Prerequisites
IAM –> USER —> admin access
setup of IAM USER
Create Repository
Create First File
Create EC2 machine → Ubuntu
Generate https credentials from IAM
Clone the repository
see the file

2.CodeBuild
It is used for creating the **environment**.
Example : → I have a node.js application (**EC2)** → npm
we pay only for the build hours

Scenario ➕:-->
Github→ webhook→jenkins→EC2
change—>detected→jenkins→jobs will be getting triggered.
EC2→ Running ? Runnings→ you will be paying for it .

situation : → we pay only for the build hours
we pay only for the build hours

BuildSpec.yaml —> file that contains the configuration to be done

Build stage

CodeDeploy
It is the location where we register our EC2, application machine .

webapplication → EC2 →apache2→ /var/www/html→rm index.html→ custom index.html —> .png → hosting ..

Appspec.yml → all the above information the file.
aws-pipeline/appspec.yml at master · Sameer-8080/aws-pipeline · GitHub

AWSDevOps-Project/user_data at main · Sameer-8080/AWSDevOps-Project · GitHub

CodePipeline