

High Level CodePipeline Setup

1. Navigate to CodeCommit, Developer Tools -> CodeCommit -> Repositories, <https://console.aws.amazon.com/codesuite/codecommit/repositories?region=us-east-1>
2. Create repository -> Enter Repository Name (Enter the project name, say radtac) -> Create. Upload the code to CodeCommit
3. Navigate to CodePipeline, Developer Tools -> CodePipeline -> Pipelines, <https://console.aws.amazon.com/codesuite/codepipeline/pipelines?region=us-east-1>. Create pipeline -> Enter Pipeline Name -> Next
4. In Add source stage, Choose AWS CodeCommit in the drop down option for Source provider -> Choose the Repository Name created in Step 3 -> Choose Branch name, considering we are going to use only master -> Next

Output

1. Nodes

```
[root@ip-172-31-86-26 infra-exercise-vjsairam]# k get nodes -o wide
```

| NAME | CONTAINER-RUNTIME | STATUS | ROLES | AGE | VERSION | INTERNAL-IP | EXTERNAL-IP | OS-IMAGE | KERNEL-VERSION |
|----------------------------|-------------------|--------|--------|-----|--------------------|-------------|----------------|----------------|-------------------------------|
| ip-10-0-4-10.ec2.internal | docker://19.3.6 | Ready | <none> | 11h | v1.18.9-eks-d1db3c | 10.0.4.10 | 100.24.105.135 | Amazon Linux 2 | 4.14.209-160.339.amzn2.x86_64 |
| ip-10-0-5-24.ec2.internal | docker://19.3.6 | Ready | <none> | 11h | v1.18.9-eks-d1db3c | 10.0.5.24 | 34.238.40.246 | Amazon Linux 2 | 4.14.209-160.339.amzn2.x86_64 |
| ip-10-0-6-123.ec2.internal | docker://19.3.6 | Ready | <none> | 11h | v1.18.9-eks-d1db3c | 10.0.6.123 | 52.206.180.41 | Amazon Linux 2 | 4.14.209-160.339.amzn2.x86_64 |

2. CodeBuild

radtac:38e715fe-8838-457f-a5bf-d5b18f10dbd4  Succeeded radtac 7 am:aws:s3::codepipeline-us-east-1-843180801426/radtac/SourceArt/TNmxnyD codepipeline/radtac 1 minute 55 seconds

3. Deployment

```
[root@ip-172-31-86-26 infra-exercise-vjsairam]# k get all
```

| NAME | READY | STATUS | RESTARTS | AGE |
|----------------------------------|-------|---------|----------|-------|
| pod/server-demo-658876955b-pjrsq | 1/1 | Running | 0 | 2m18s |
| pod/server-demo-658876955b-zxs9x | 1/1 | Running | 0 | 2m47s |

| NAME | TYPE | CLUSTER-IP | EXTERNAL-IP | PORT(S) | AGE |
|-------------------------|-----------|--------------|-------------|----------------|-----|
| service/backend-service | NodePort | 172.20.5.234 | <none> | 8080:31479/TCP | 11h |
| service/kubernetes | ClusterIP | 172.20.0.1 | <none> | 443/TCP | 11h |

| NAME | READY | UP-TO-DATE | AVAILABLE | AGE |
|-----------------------------|-------|------------|-----------|-----|
| deployment.apps/server-demo | 2/2 | 2 | 2 | 11h |

| NAME | DESIRED | CURRENT | READY | AGE |
|--|---------|---------|-------|-------|
| replicaset.apps/server-demo-658876955b | 2 | 2 | 2 | 2m47s |

4. Application Output

```
[root@ip-172-31-86-26 infra-exercise-vjsairam]# curl 52.206.180.41:31479; echo  
Hello form Node.js Server  
[root@ip-172-31-86-26 infra-exercise-vjsairam]# █
```