**AWS CodeCommit**

**What Is AWS CodeCommit?**

AWS CodeCommit is a version control service hosted by Amazon Web Services that users can use privately to store and manage assets (such as documents, source code, and binary files) in the cloud.

In other words, AWS provides the service which allows you to just store the code or any assets without worrying about the version control like other version control tools such as Bitbucket, GitHub, etc. AWS manages everything on its own and takes full responsibility for scaling its infrastructure.

**Features:**

● Ensures High secure code (encrypted) with any type of code.

● Collaborative work (users can access the same piece of code with different IAM users and different security groups).

● Easy scalability.

● Easy to integrate with third-party groups.

**Pricing:**

AWS CodeCommit provides free tier term for the first 5 active users for the below configurations:

**First 5 active user receives**:

● Unlimited repositories

● 50 GB storage

● 10K Git requests/month

**Additional active user beyond the first 5 users**:

● Unlimited repositories

● 10 GB storage

● 2K Git requests/month

**Note:** There will be additional charges for additional storage or an increase in GIT requests if increased.

**Step:1 Prerequisites**

1. Download and install Git on you local system(Linux and Windows)
2. Configure GIT on your system
   1. git config --global user.email <your email id>
   2. git config --global user.name "your name"

1. Create New AWS IAM user (Or use existing admin user)

a. Attach IAM policy "AWScodecommitFullAccess"

b. Attach IAM policy "AWScodePipelineFullAccess"

c. Security Credentials -->> HTTPS Git Credentials -->>Generate and Save the credentials

1. Create Service Role for **CodeDeploy**

a. Create IAM role for CodeDeploy service

b. Attach existing IAM policy "AWSCodeDeployRole"

1. Create IAM Role for Ec2 to download logs from S3

a. Create IAM role for EC2 service to attach "AttachS3readonlyAccess"policy

**Step:2 Configure CodeCommit Respository**

1. Go to CodeCommit Service (Use North Virginia Region )
   1. Create new code repository with name "**Alpha**"
   2. Copy the Clone URL >>Clone HTTPS

1. Clone Git Repository locally
   1. Git clone <URL>
   2. Provide username/Password (**This should create empty repository**)
2. Download Sample Application
   1. Download application locally
   2. Unzip and move all files and folders inside your local repository "**Alpha"** directory
   3. Change your CMD to Demo-Project
   4. git status
   5. Git add -A
   6. Git commit -m "Added sample application files"
   7. Git push