Module 2: SDLC Automation

Demo Document 1

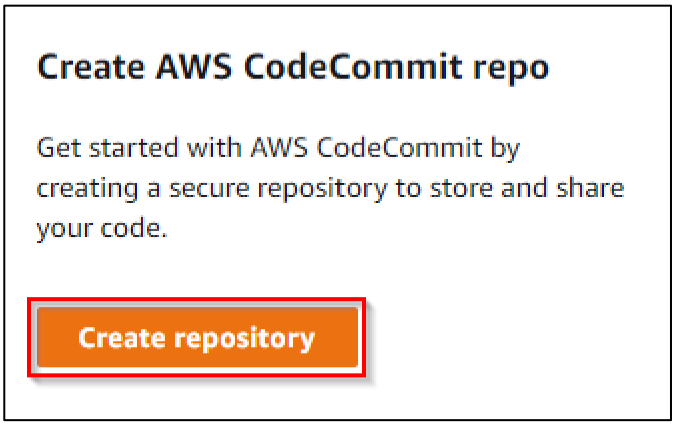
edureka!

Working Of CodeCommit

Demo steps:

Step 1: Create an AWS CodeCommit Repository

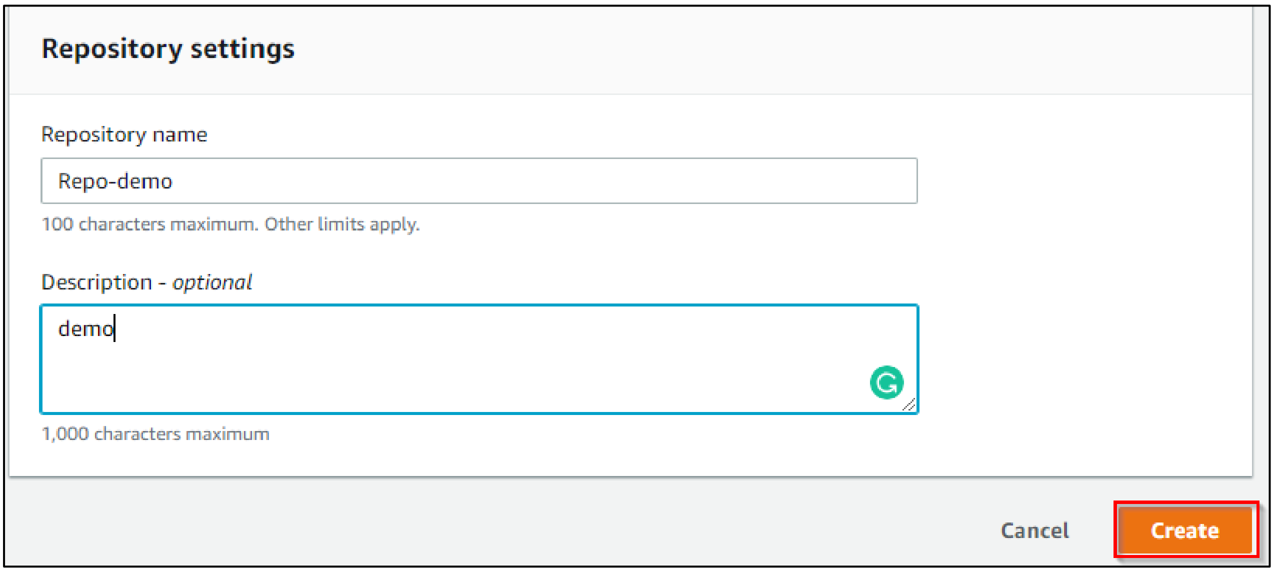
- In your AWS Management Console, search for CodeCommit and select it
- Click on **Create Repository**



Create AWS CodeCommit repo

Get started with AWS CodeCommit by creating a secure repository to store and share your code.

- Give a Name and description for your Repository
- Then, click on create



Repository settings

Repository name: Repo-demo

100 characters maximum. Other limits apply.

Description - *optional*: demo

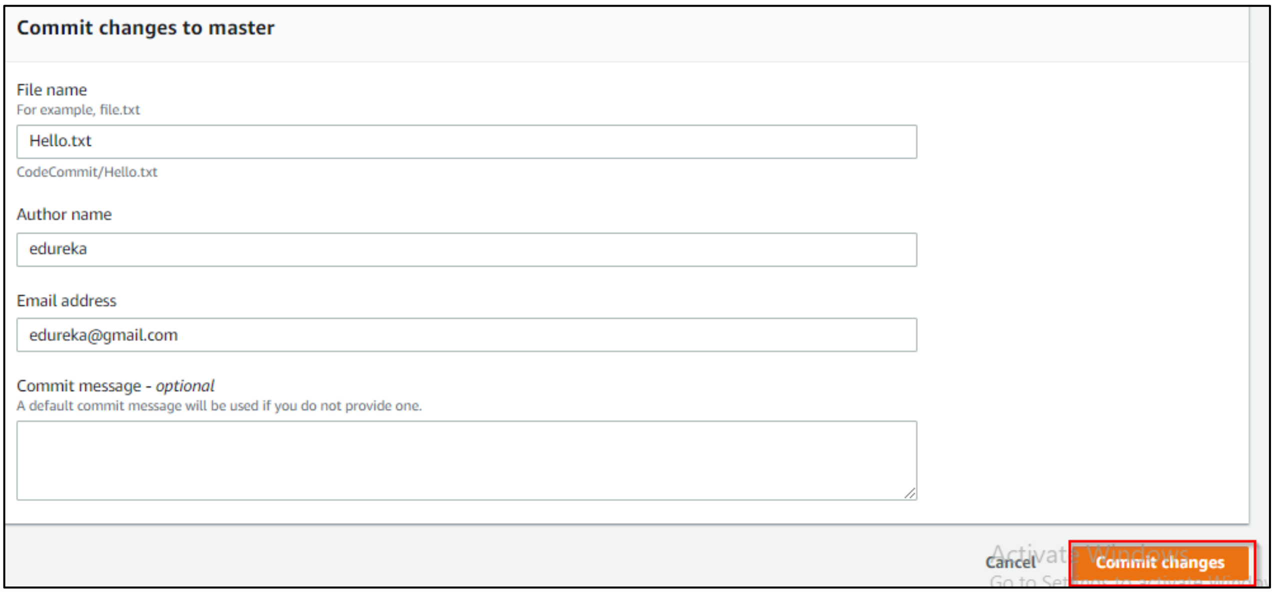
1,000 characters maximum

Step 2: Create a file

- In your navigation tab, go to code and click on create file

```
<html>

<header><title>This is title</title></header>

<body>

Hello world

</body>

</html>
```

- Give a file name as hello.txt
- Give the author and email address to your file
- Click on Commit changes



Commit changes to master

File name
For example, file.txt
Hello.txt
CodeCommit/Hello.txt

Author name
edureka

Email address
edureka@gmail.com

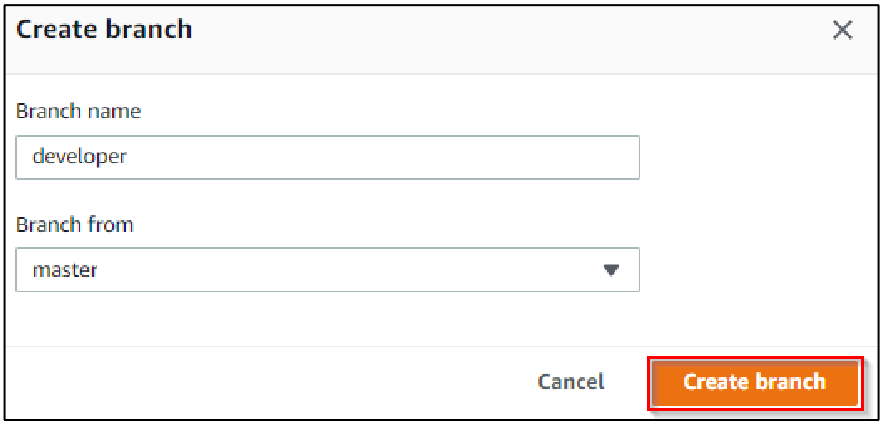
Commit message - *optional*
A default commit message will be used if you do not provide one.

- Your file will be always committed to the master branch, which is not secure
- So to avoid that, Create a branch

Step 3: Create a Branch

- In your navigation tab, go to branch and click on create branch
- Give your branch name as developer

- Choose the branch from as master



Create branch

Branch name

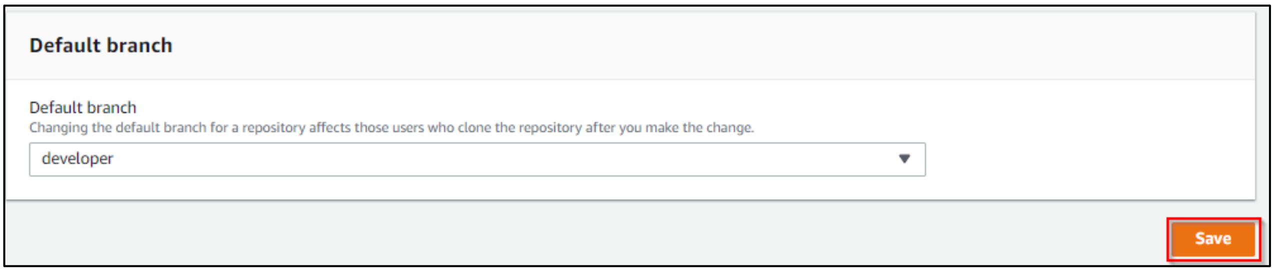
developer

Branch from

master

Step 4: Now set your default branch to developer

- In your navigation tab, go to settings
- In the default branch, choose the branch as developer
- Click on save



Default branch

Default branch
Changing the default branch for a repository affects those users who clone the repository after you make the change.

developer

Step 5: Restrict your user from accessing the master branch

- Go to your AWS Management Console, search for IAM and select it

- Create a policy to restrict the user from accessing the master branch

```
{
    "Version": "2012-10-17",
    "Statement": [
        {
            "Effect": "Deny",
            "Action": [
                "codecommit:GitPush",
                "codecommit:DeleteBranch",
                "codecommit:PutFile",
                "codecommit:MergePullRequestByFastForward"
            ],
            "Resource": "arn:aws:codecommit:us-eas2:80398EXAMPLE:MyDemoRepo",
                      // Give your repos ARN which you can find in settings
            "Condition": {
                "StringEqualsIfExists": {
                    "codecommit:References": [
                        "refs/heads/master"
                    ]
                },
                "Null": {
                    "codecommit:References": false
                }
            }
        }
    ]
}
```

- Attach it to the users, who you don’t want to have the master branch access

Step 6: Add a Files to your developer branch through that IAM user whom you have attached the policy

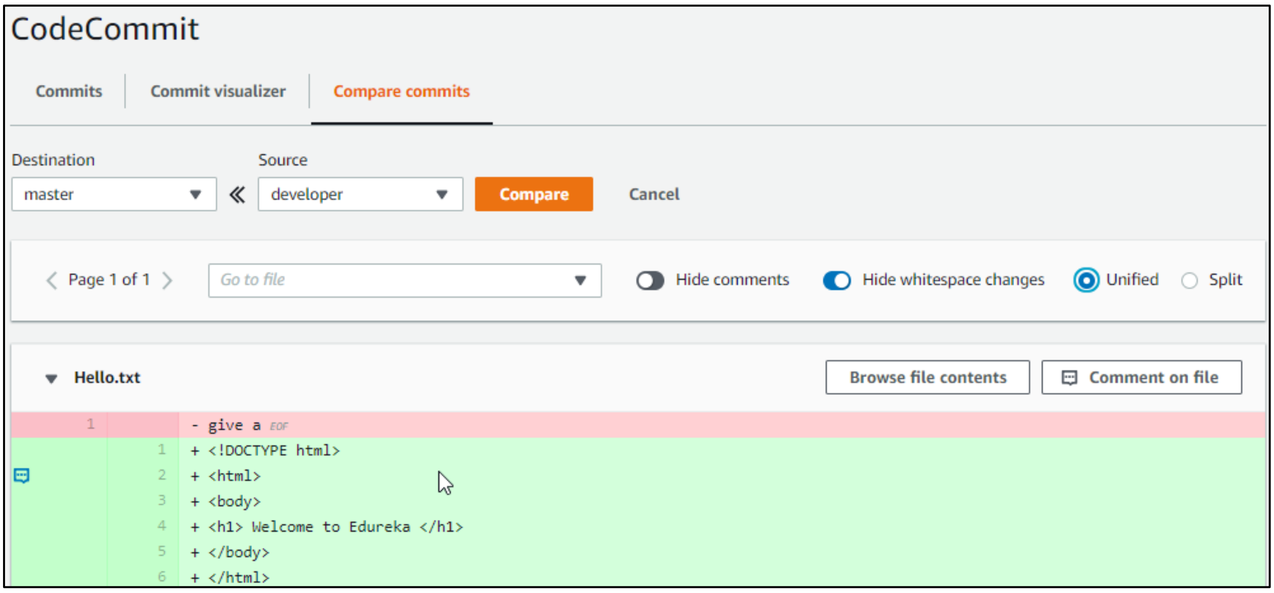
- In the navigation bar, Choose Code
- Create a file in the name of hello.txt

```
<!DOCTYPE html>

<html>

<body>

<h1> Welcome to Edureka </h1>

</body>

</html>
```

- Give an author name and Email address
- Click on Commit changes

Step 7: View your commits

- In your navigation tab, go to commits to see all the commits you have done
- Click on compare commits to check what are the changes done



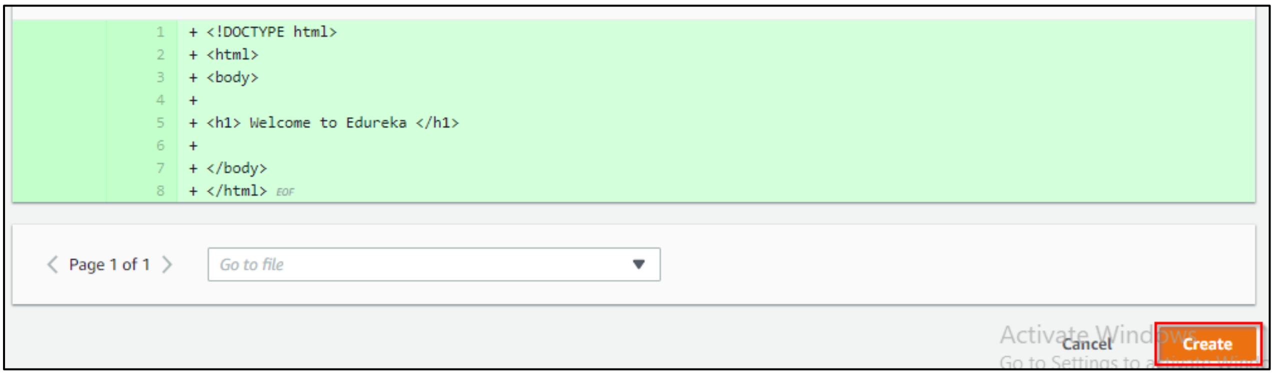
Destination: master
Source: developer

Hello.txt

```
- give a EOF
+ <!DOCTYPE html>
+ <html>
+ <body>
+ <h1> Welcome to Edureka </h1>
+ </body>
+ </html>
```

Step 8: Merge the branch

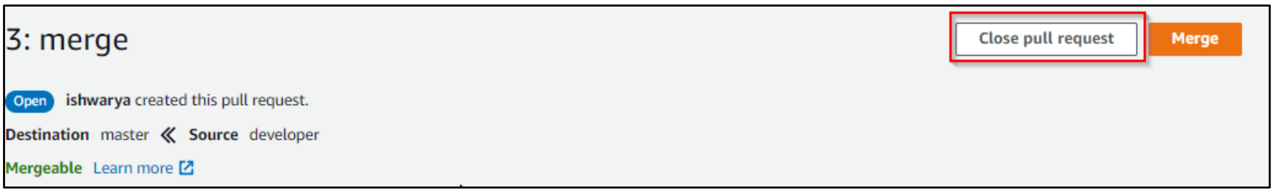
- In your navigation tab, go to pull request and click on create a pull request
- Choose the source branch to be developer and destination branch to be master
- Click on compare
- Give a title
- Then, click on create



```
+ <!DOCTYPE html>
+ <html>
+ <body>
+
+ <h1> Welcome to Edureka </h1>
+
+ </body>
+ </html> EOF
```

Step 9: Accept the merge request

- Now through an other user to whom you have given master branch access, accept the request



3: merge

Open ishwarya created this pull request.

Destination master « Source developer

Mergeable Learn more

- Now you can see the changes that is done to your repository