Creating a CI/CD Pipeline

AWS DevOps Certification

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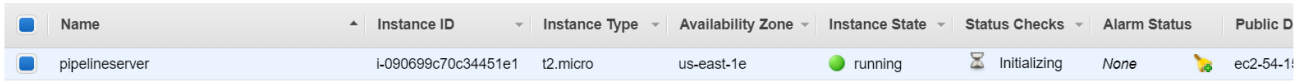
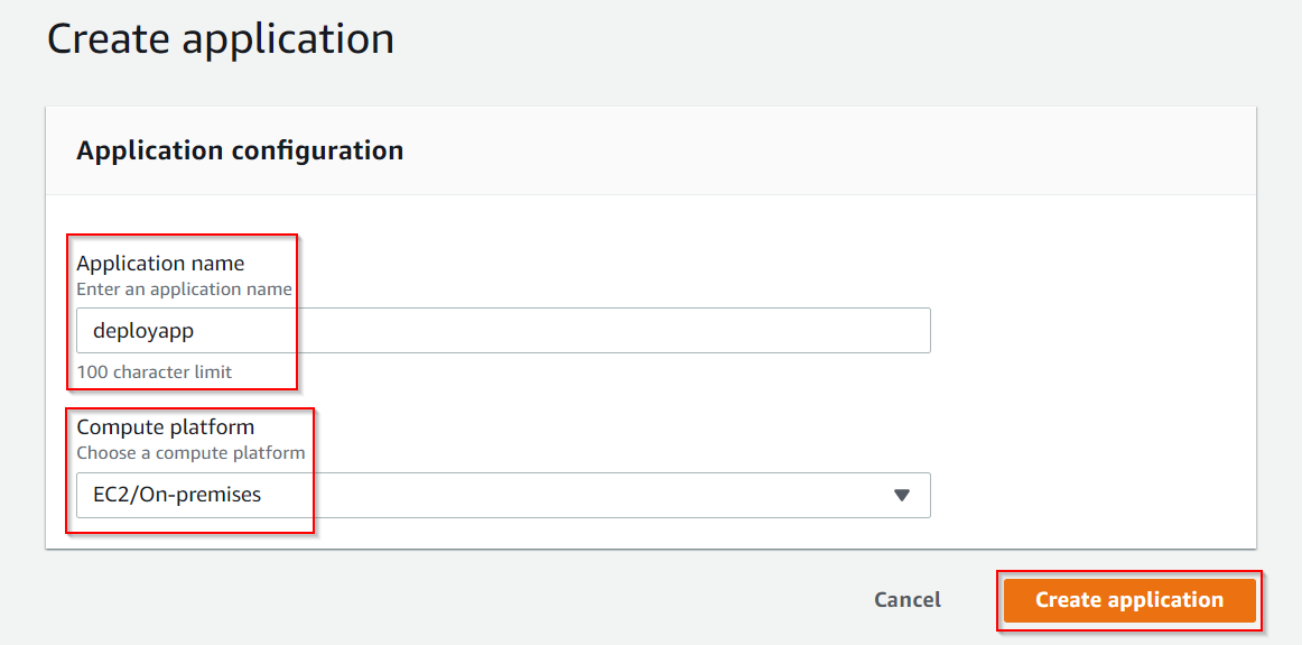
Step 1: Launch an Ubuntu EC2 instance. In Step 2 of the process, scroll down, and add the user data as provided below. Also, give it a tag, e.g., Name :: pipelineserver

```
#!/bin/bash
sudo apt-get update
sudo apt-get -y install ruby
sudo apt-get install wget
cd /home/ubuntu
wget https://aws-codedeploy-us-east-2.s3.us-east-2.amazonaws.com/latest/install
sudo chmod +x ./install
sudo ./install auto
sudo service codedeploy-agent start
```

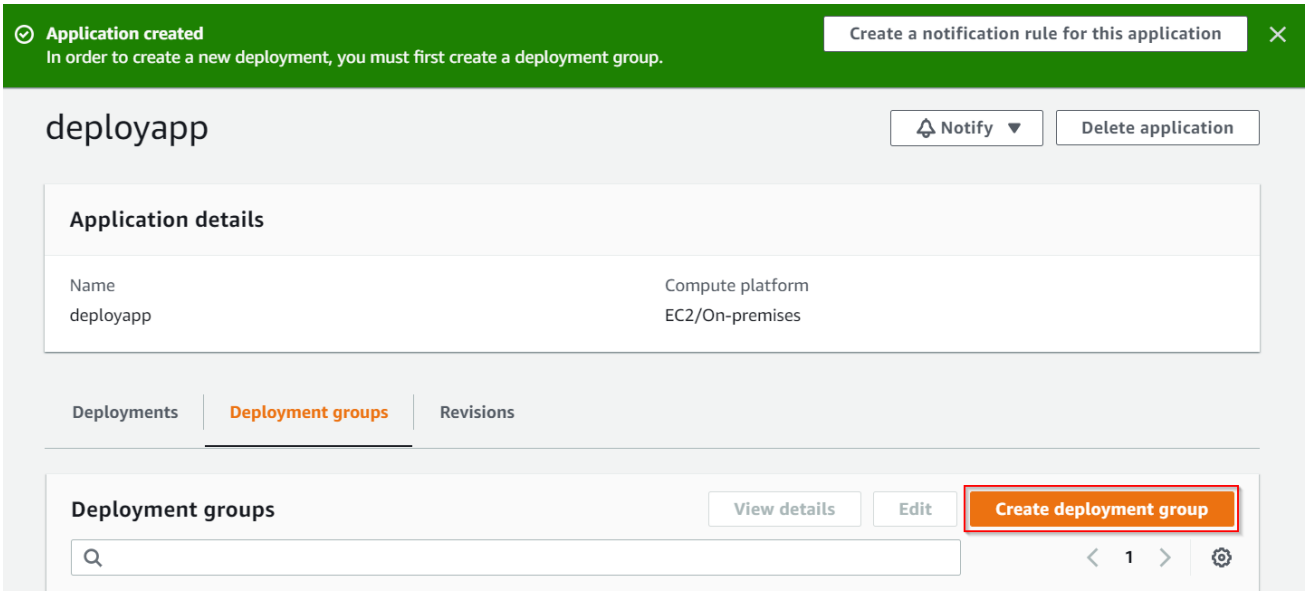


Step 2: Open **CodeDeploy** in Developer Tools to create an application

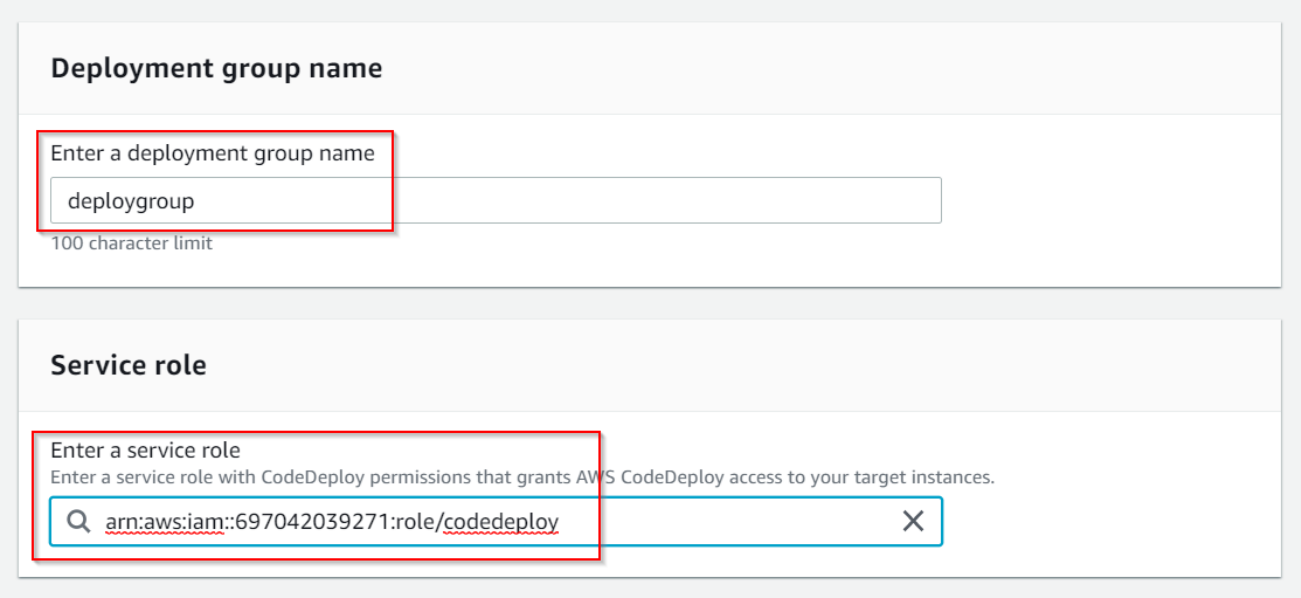
Step 3: Give the application a name; choose **EC2/On-premises** for **Compute platform**, and then, click on **Create application**



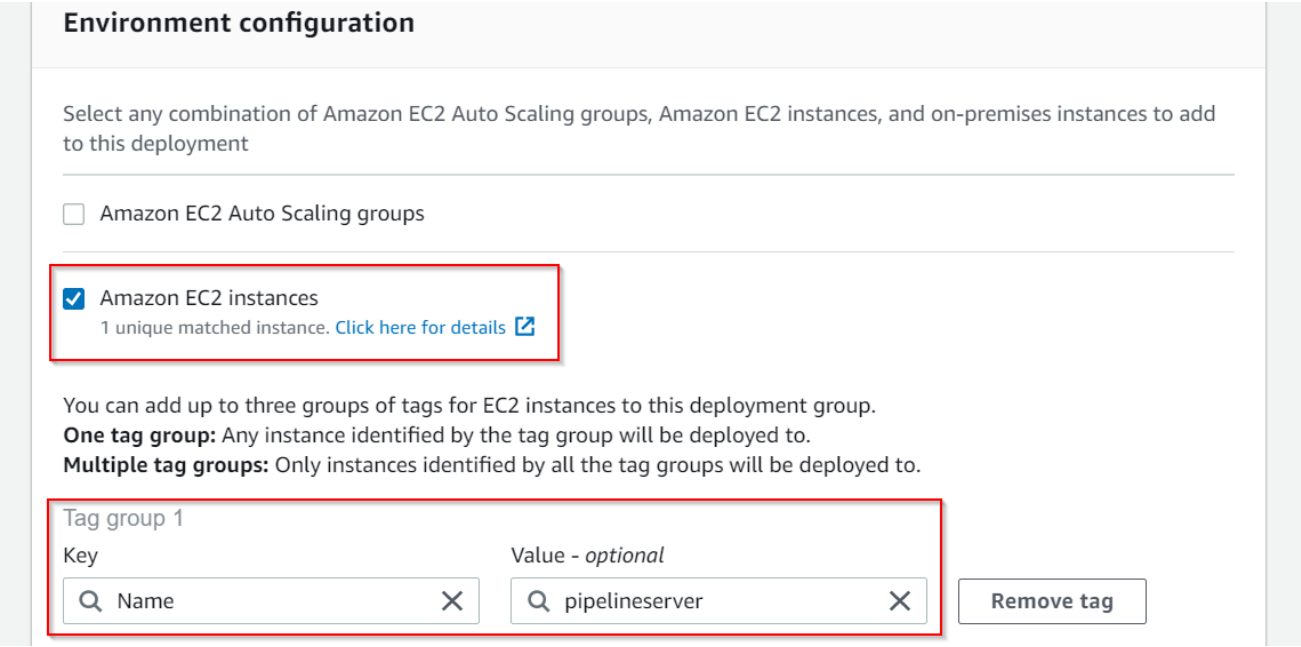
Step 4: Once the application is created, choose **Create deployment group**



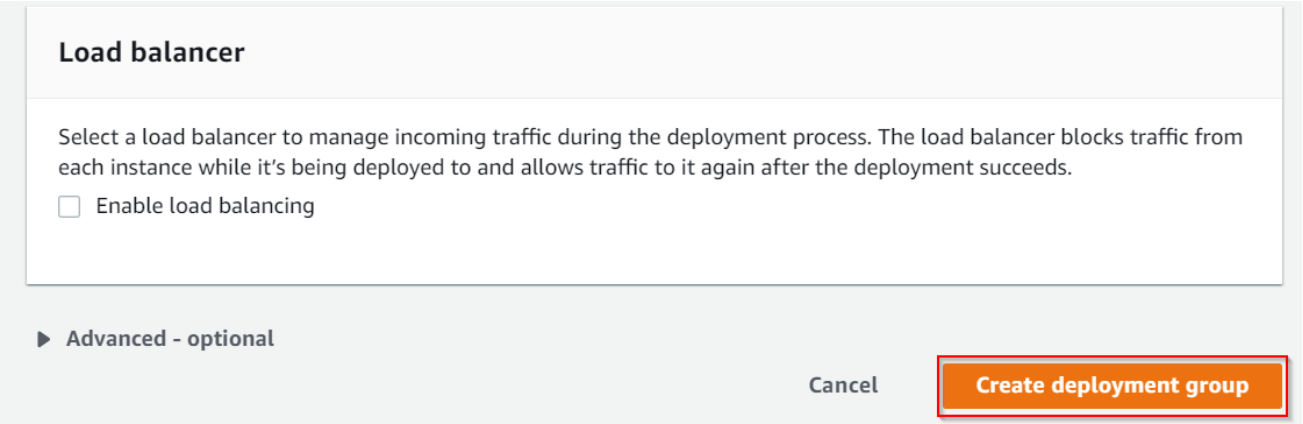
Step 5: Give a name to the deployment group, and choose the existing Service role

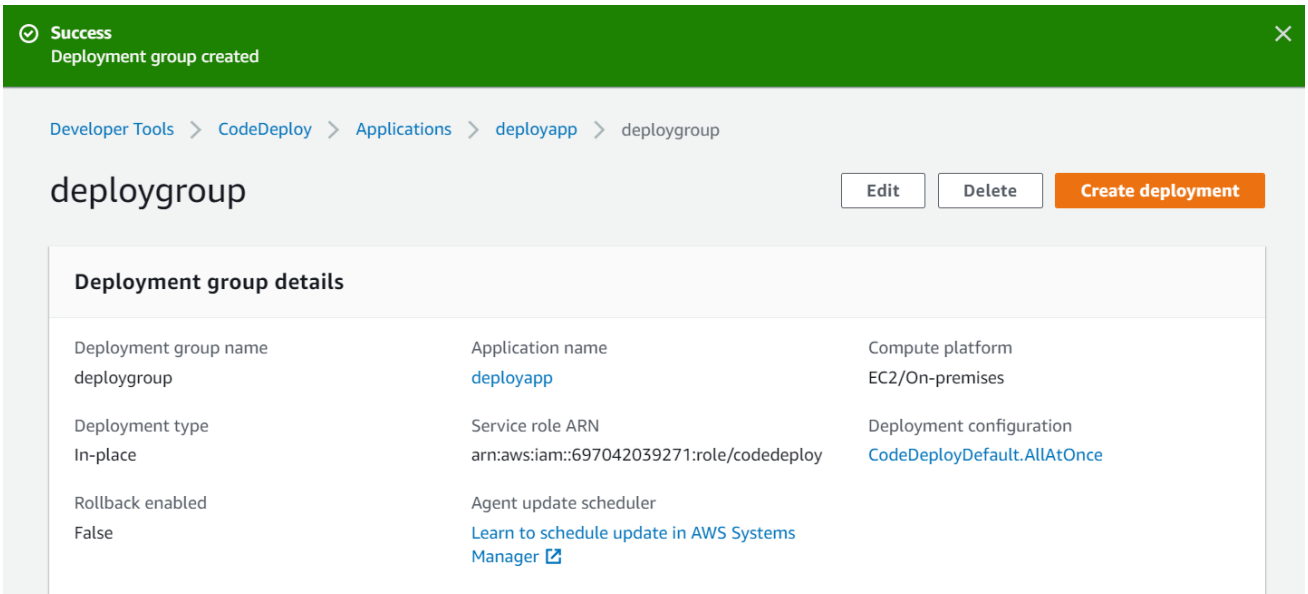


- Select **Amazon EC2 instances** as you are using just one instance here, and enter the tag to mention the instance



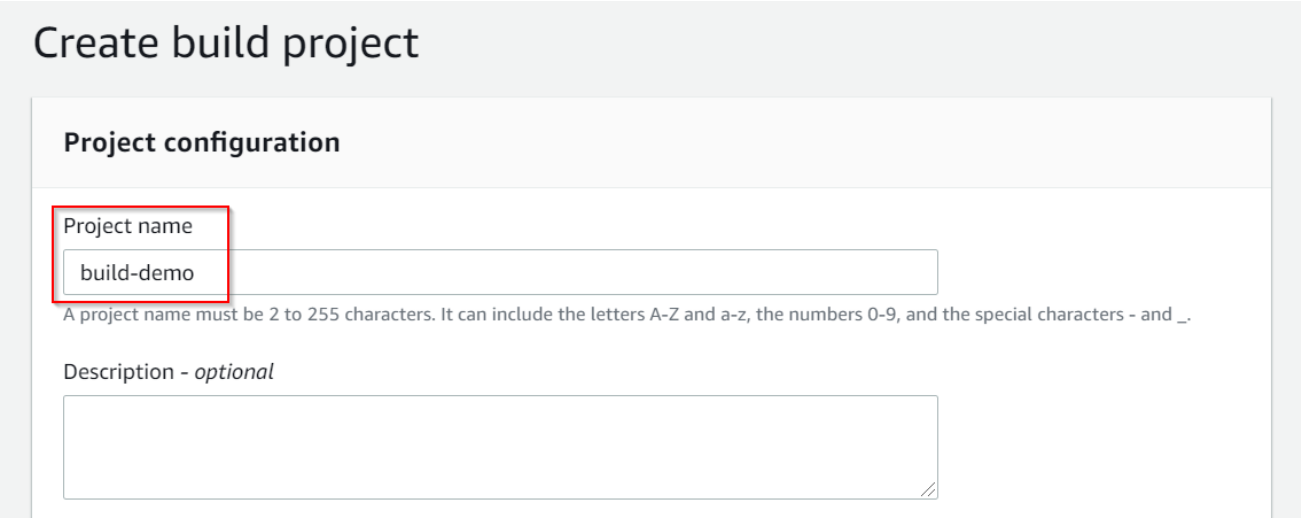
- Once the given information is provided, click on **Create deployment group**



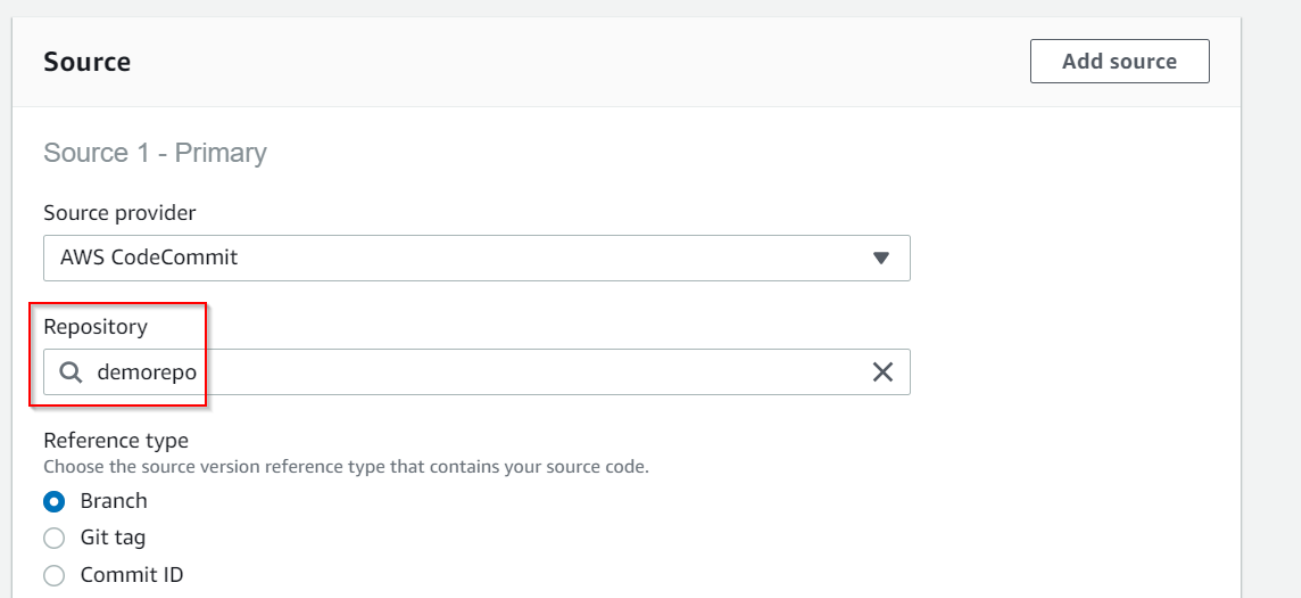


Step 6: Next, create a CodeBuild build project by clicking on **Create project**

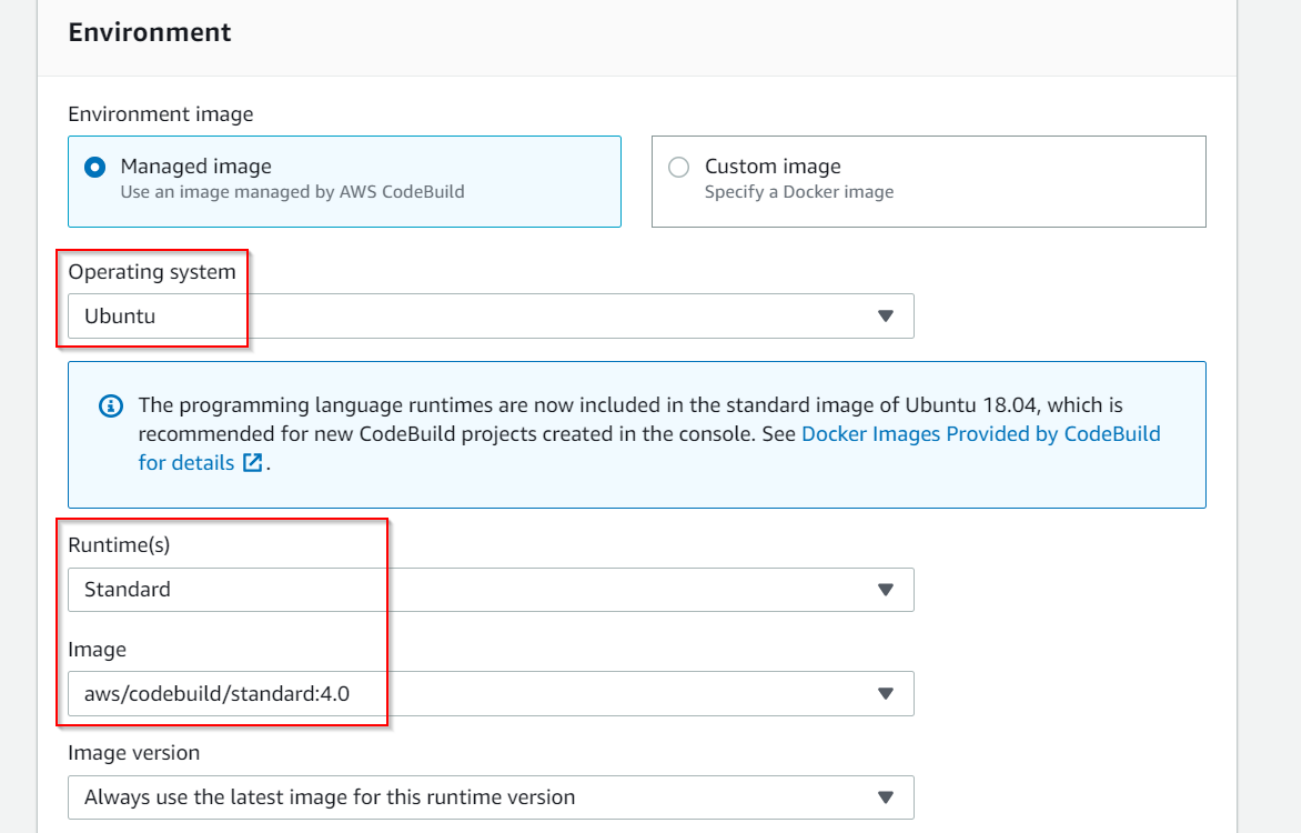
- Provide a name, and scroll down to the **Source** section



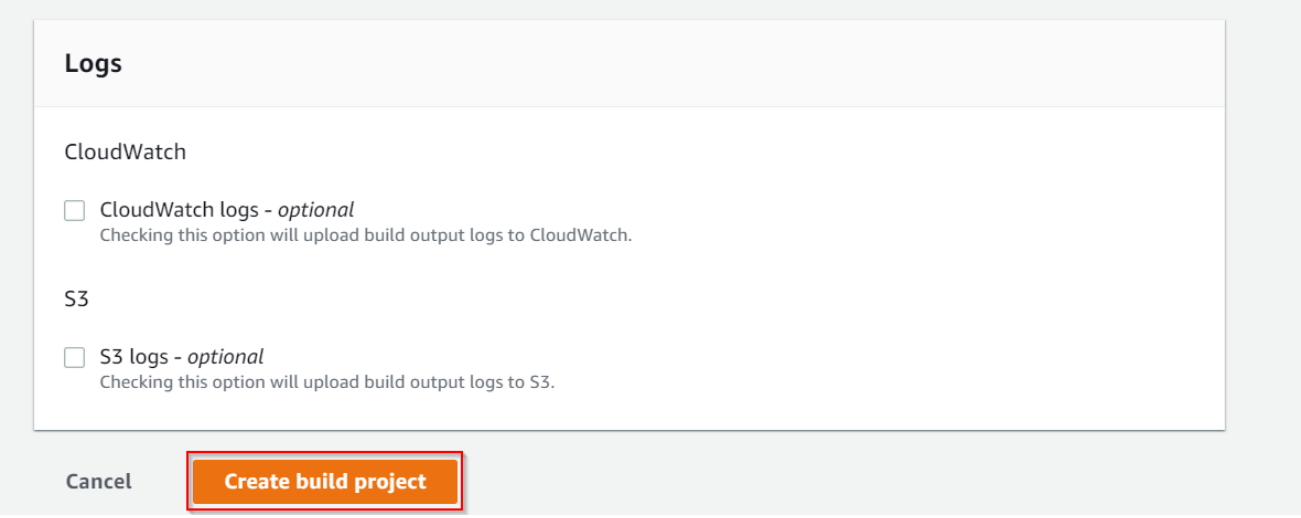
- Select the Source provider (here, it is CodeCommit, but if your code is in GitHub, then select that), and then choose the repository in which the code is available



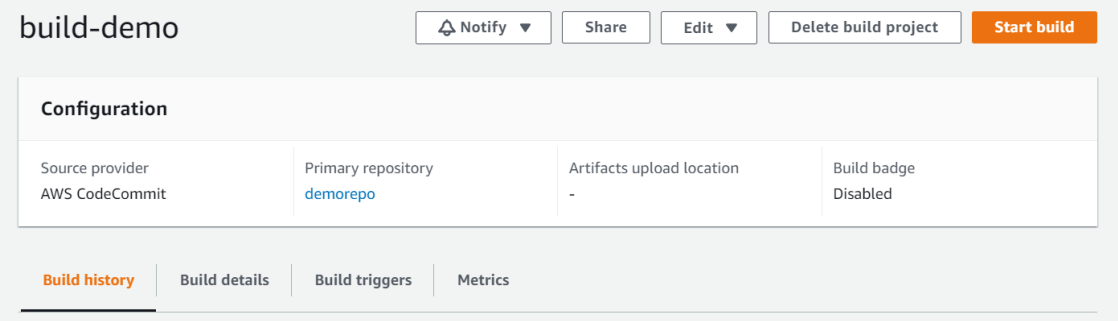
- Let the image be a **Managed image**; choose Ubuntu as the OS; and let the Runtime and Image be the same as given in the screenshot below:



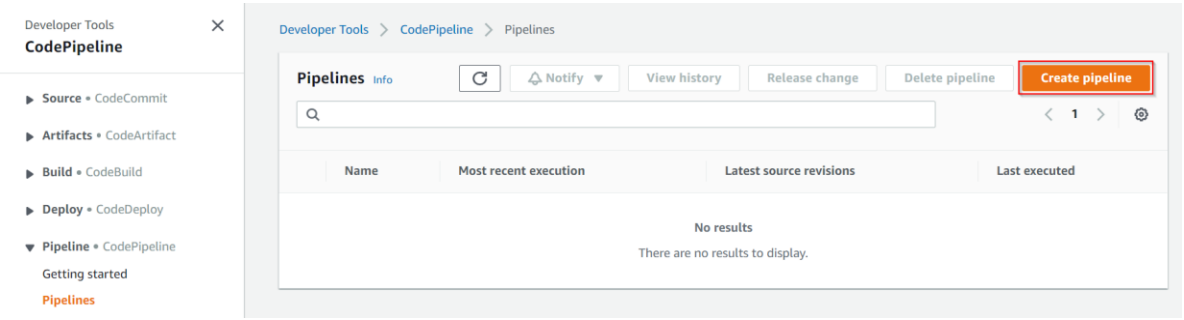
- Finally, click on **Create build project**



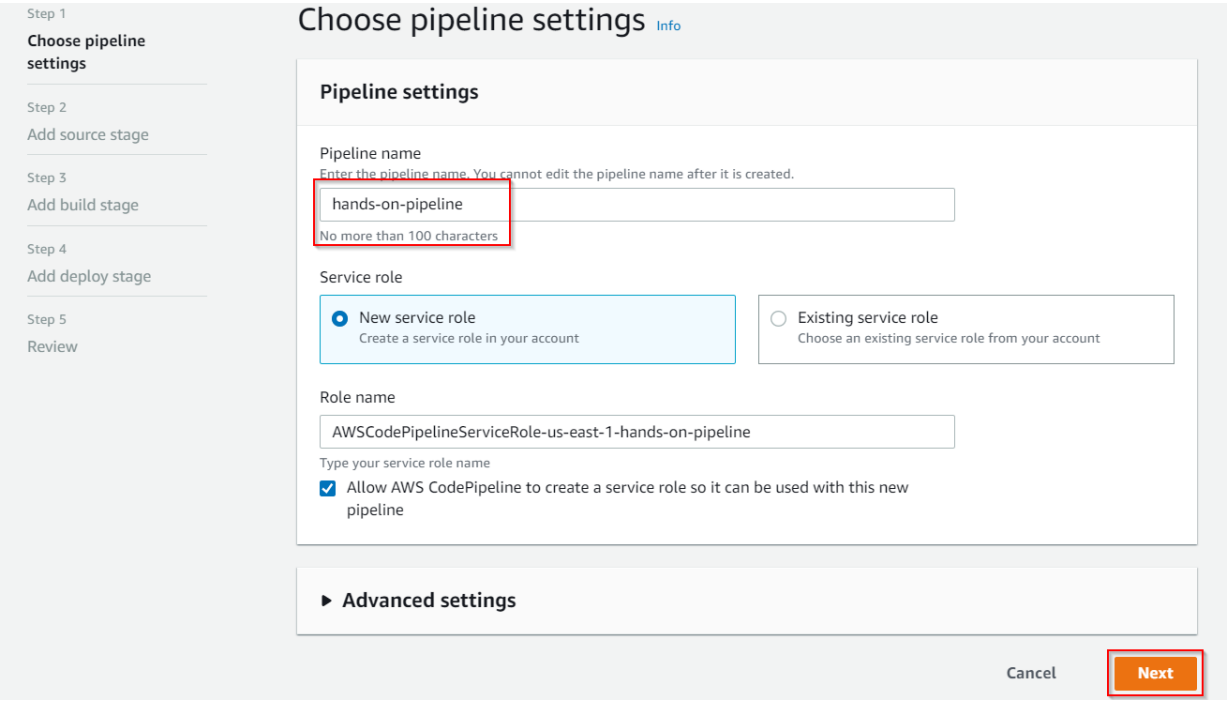
- It has been created successfully



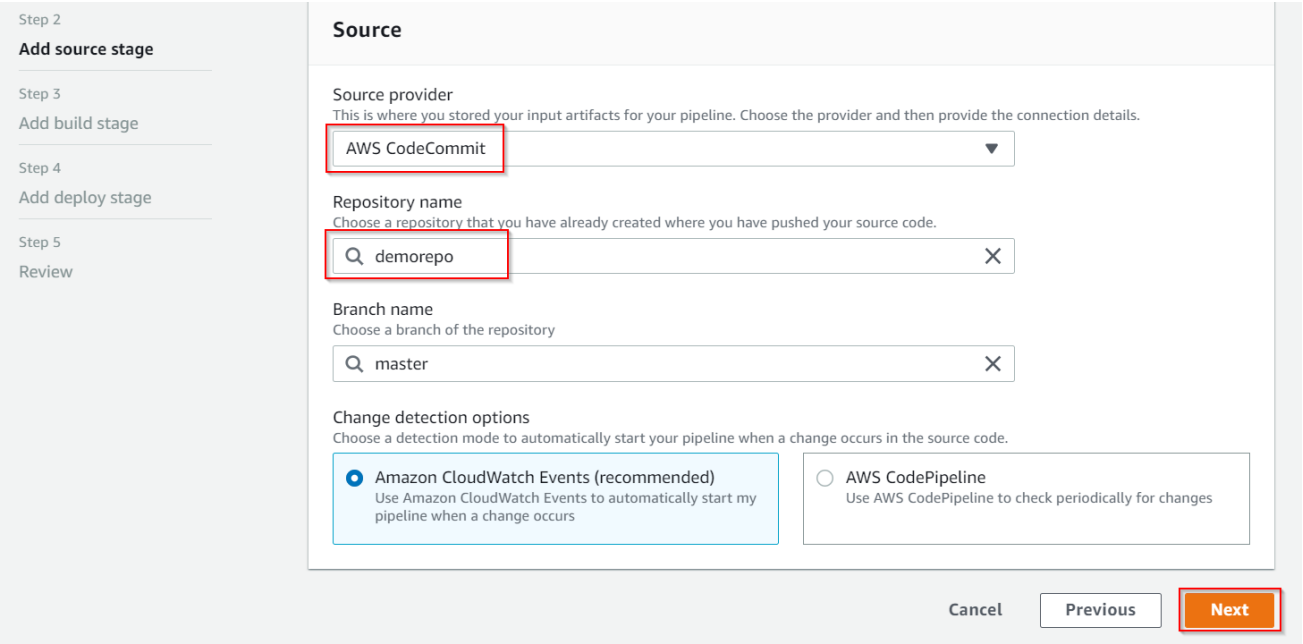
Step 7: Now, go to **CodePipeline** to start building the pipeline



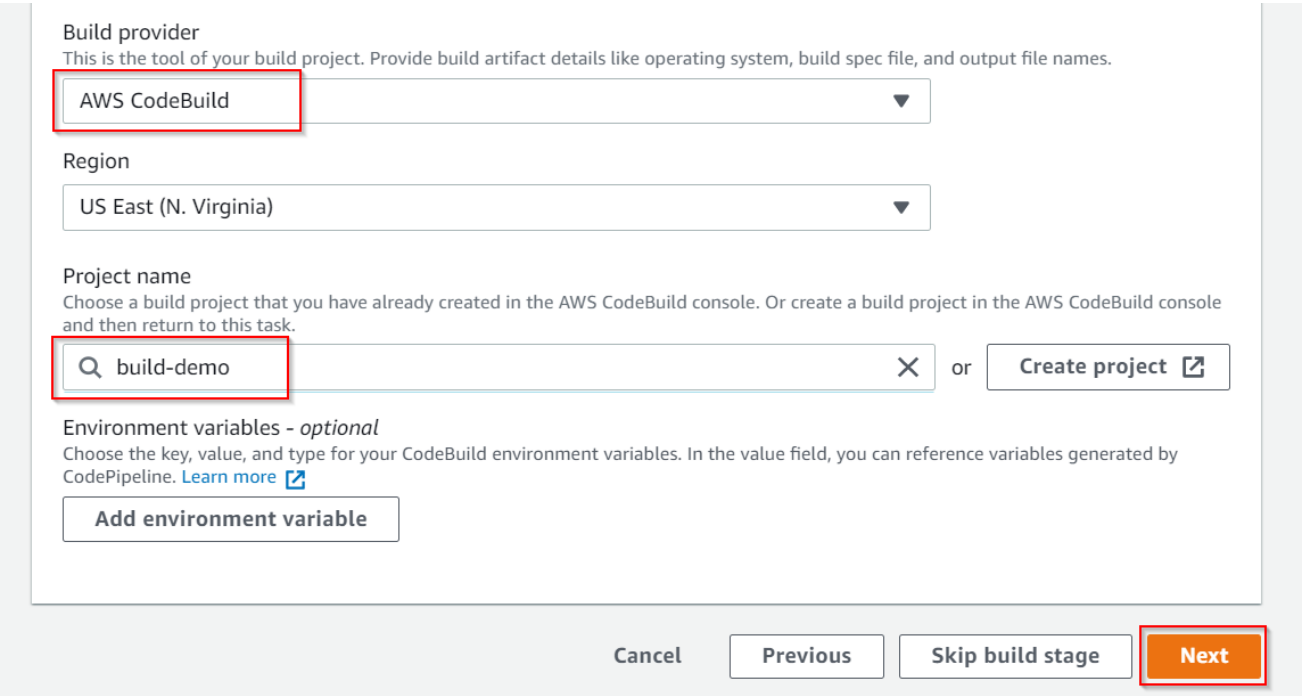
- Provide the Pipeline name; let it create a **New service role** for this pipeline, and hit **Next**



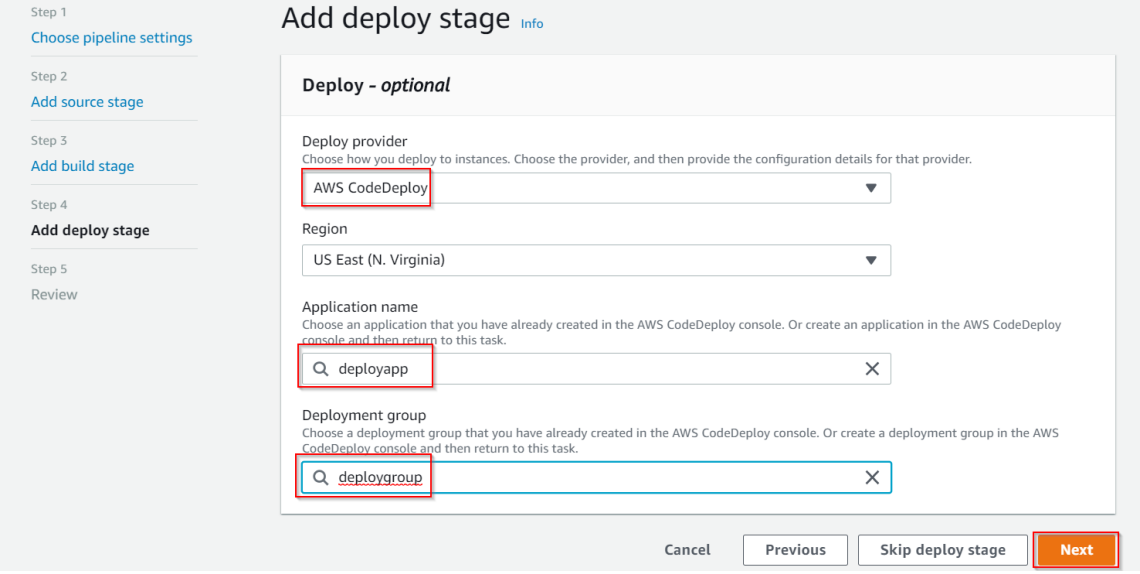
Step 8: In the Source stage, select the Source provider and the Repository name according to where your application's code is residing, and click on **Next**



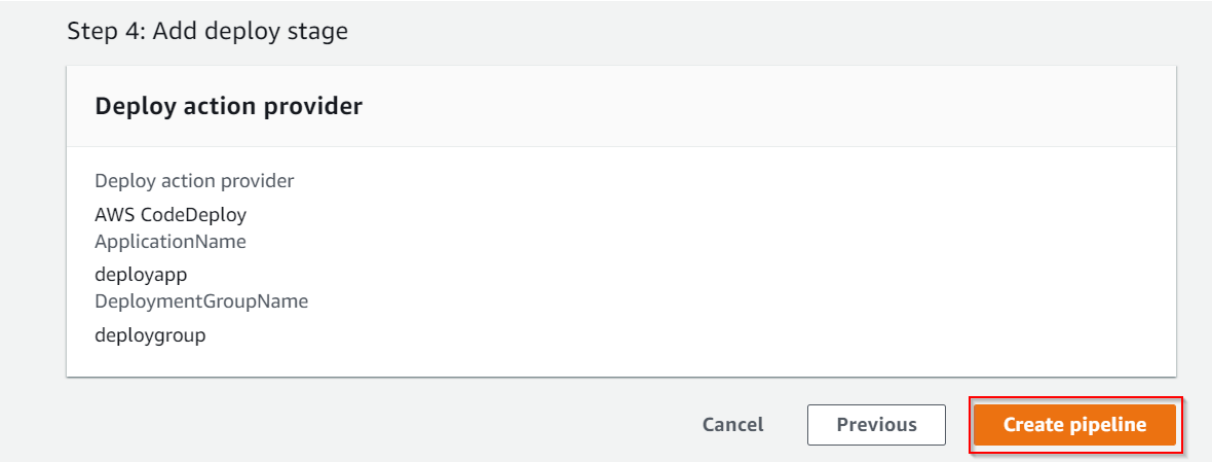
Step 9: In the Build stage, select the Build Provider and then the created Build project, and click on **Next**

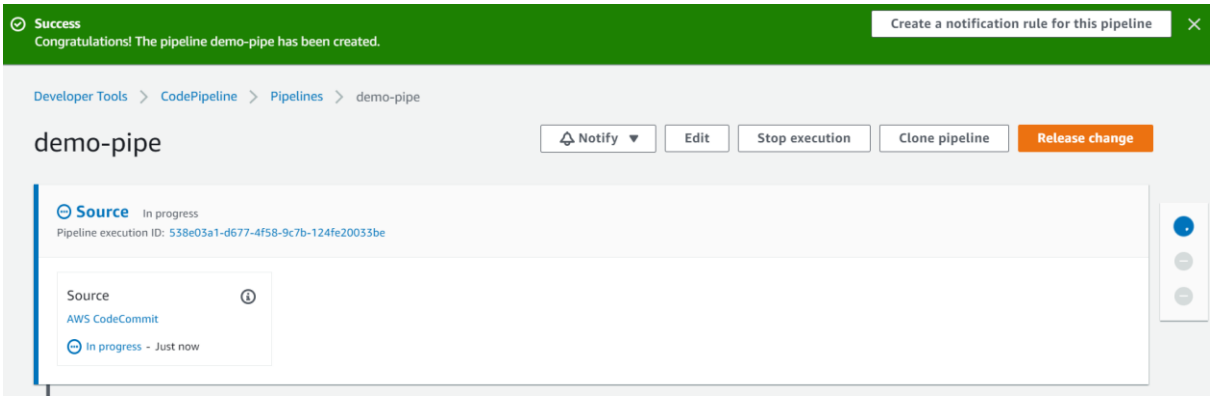


Step 10: Select the deployment provider; choose the application; select the corresponding deployment group, and press **Next**



Step 11: Final step is to review and click on **Create pipeline**. Once it is done, wait until it succeeds to check out your application




Success
Congratulations! The pipeline demo-pipe has been created.
Create a notification rule for this pipeline
Developer Tools > CodePipeline > Pipelines > demo-pipe
demo-pipe
Notify
Edit
Stop execution
Clone pipeline
Release change
Source
In progress
Pipeline execution ID: 538e03a1-d677-4f58-9c7b-124fe20033be
Source
AWS CodeCommit
In progress - Just now