EXERCISE 09 – SETUP OF CONTINUOUS DELIVERY

SAP Partner Workshop	30 min

Description

In this exercise, you'll learn how

- To do setup of Continuous Delivery

For further reading on SAP Cloud SDK, click link below.
https://www.sap.com/germany/developer/topics/s4hana-cloud-sdk.html

Target group

- Developers
- People interested in learning about S/4HANA extension and SAP Cloud SDK

Goal

The goal of this exercise is to build a basic extension app on Cloud Foundry using Business Partner Example.

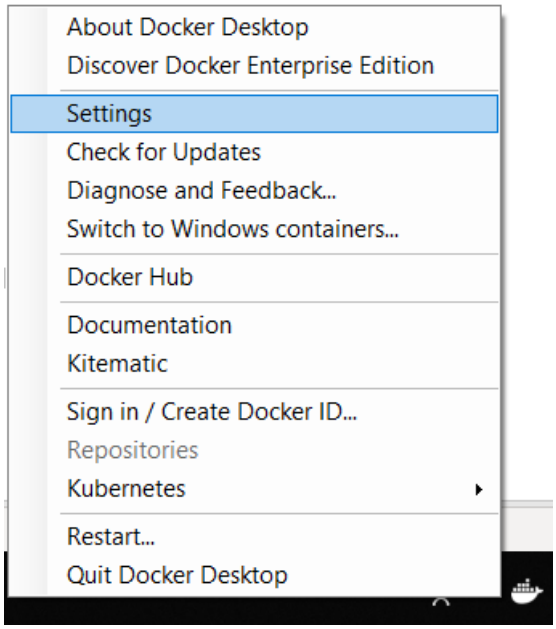
Prerequisites

Here below are prerequisites for this exercise.

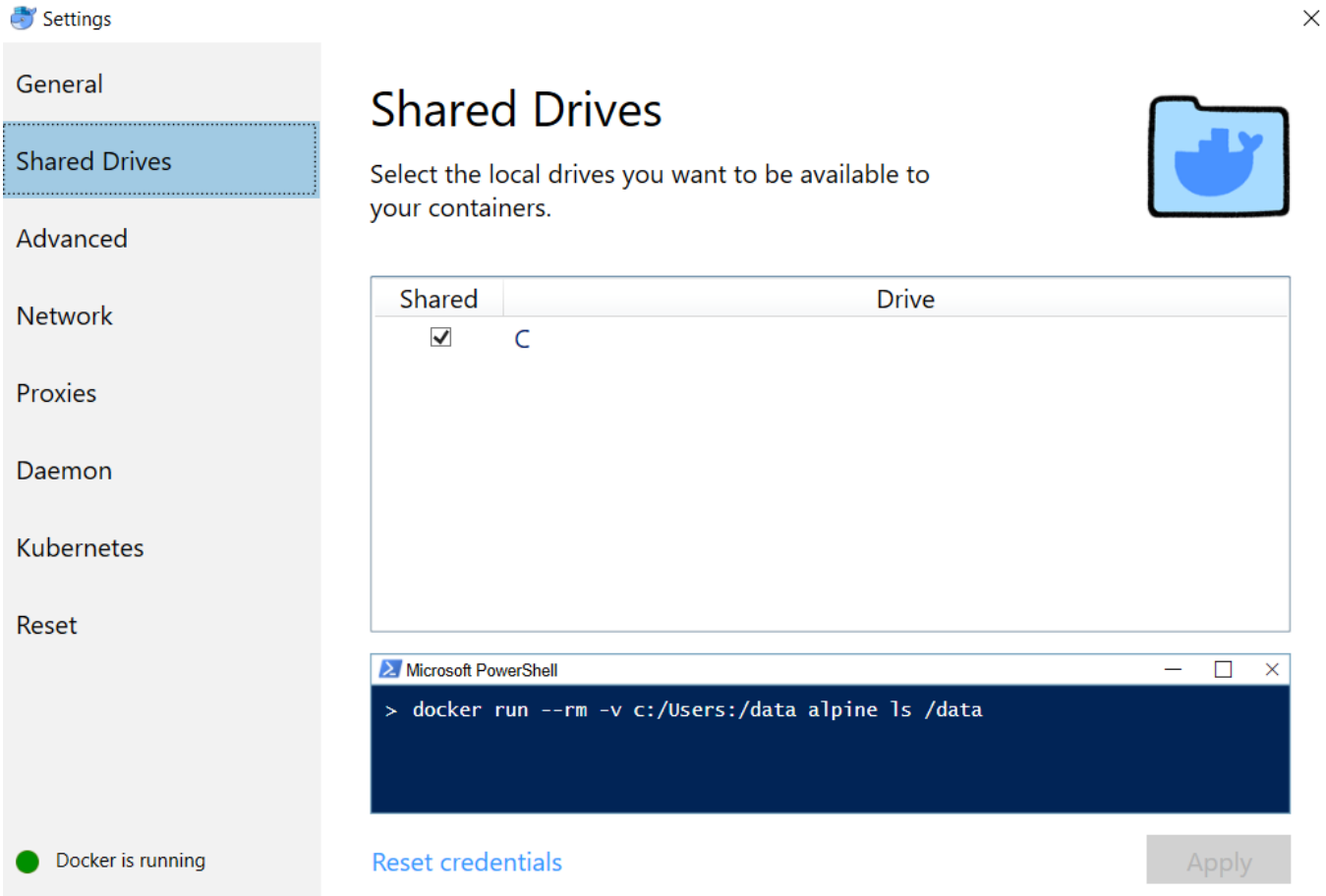
- Install Docker - https://docs.docker.com/docker-for-windows/install/

Step 1 – Run and Configure Docker

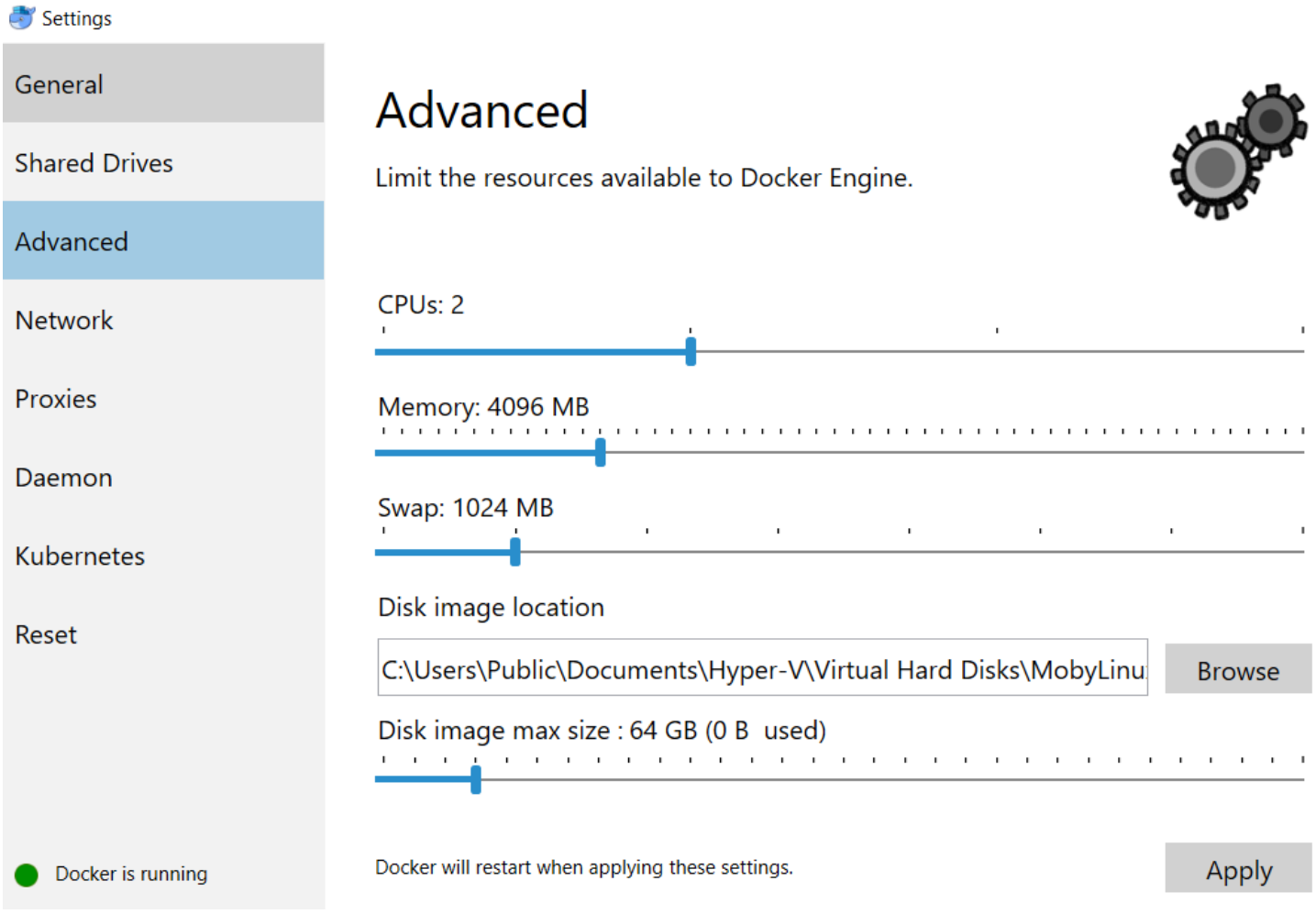
Run the docker. Go to Settings as below.



Share “C:\” drive as below.



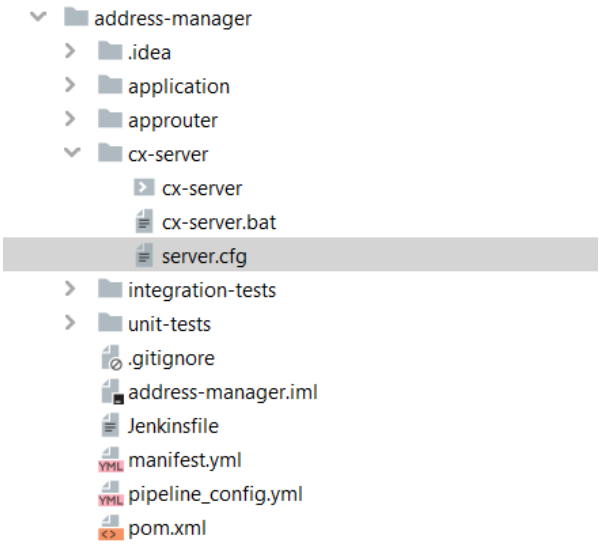
Go to **Advanced** and increase the memory to 4096 MB.



Click on **Apply.**

Step 2 – Run Jenkins Server

The lifecycle of the Cx Server is maintained by a script called *cx-server*. It can be found in the same named folder on the root of each SAP Cloud SDK project archetype.



Note: If you may use the project from previous exercise or download a project sample from here.

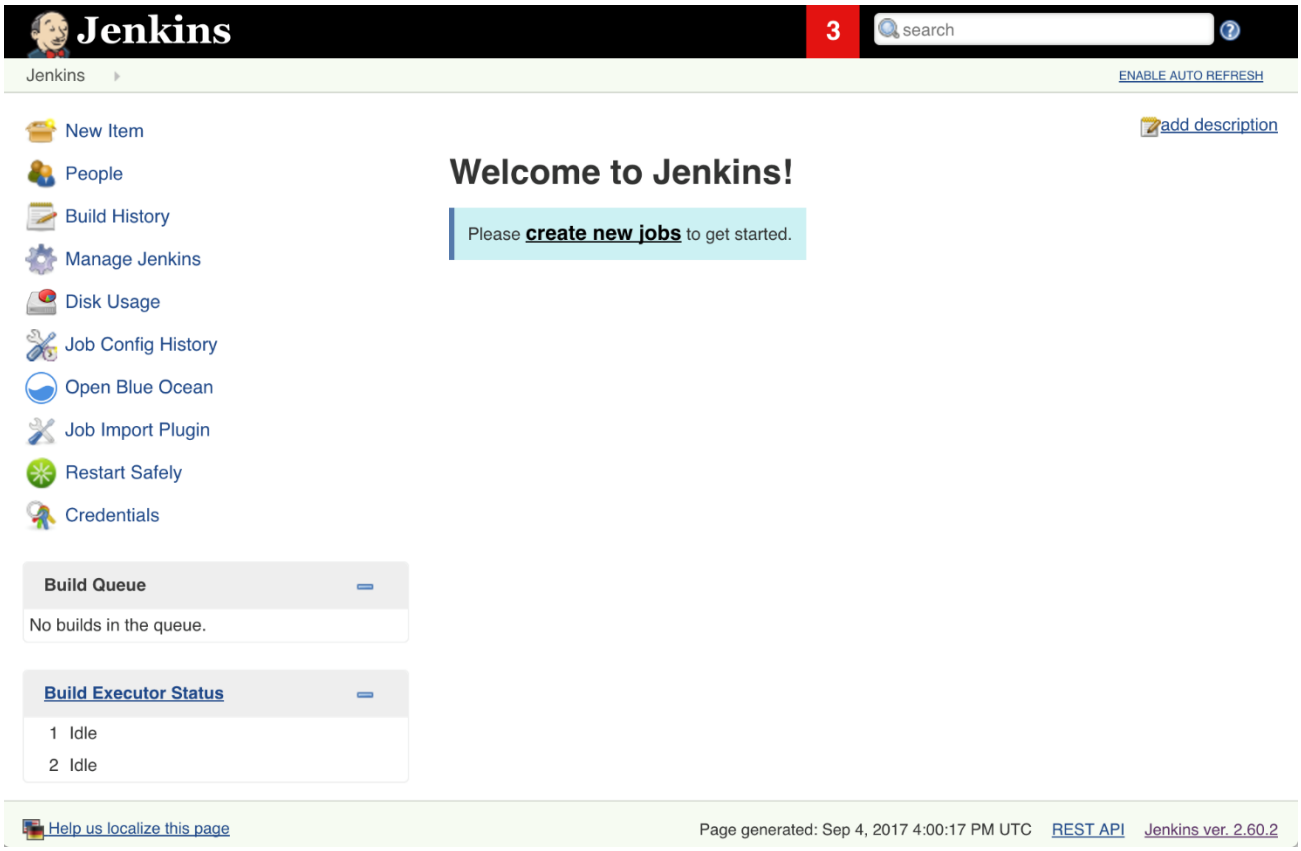
Run the below command to start Jenkins server locally.

```
cd <your project location>\address-manager\cx-server
cx-server start
```

The output should be as below.

```
Digest: sha256:f9bf232e2e42b2a11b21fb8baac50712c389bd1d7b964132cc8ff0d9eca8b166
Status: Downloaded newer image for s4sdk/jenkins-master:latest
>> docker run -u 1000:0 --name s4sdk-jenkins-master -d -p 80:8080 -v /var/run/docker.sock:/
erver:/var/cx-server:ro -e DL_CACHE_NETWORK=s4sdk-network -e JENKINS_OPTS=--httpPort=8080 -
7054674466cb3119fc8cb08ed53b06349bade091b13afe6ff6203a2a8afebae0
Waiting for the Cx server to start.......... success.
 detected newer version. Applying update.
 detected newer version for Windows. Applying update.
```

Open a browser and type “localhost” and enter. You should get the Jenkins home page as below.



For stopping your Cx Server instance, you can use the command *cx-server stop*. It will stop the Cx Server container in a safe manner by waiting for all jobs to finish before shutdown.

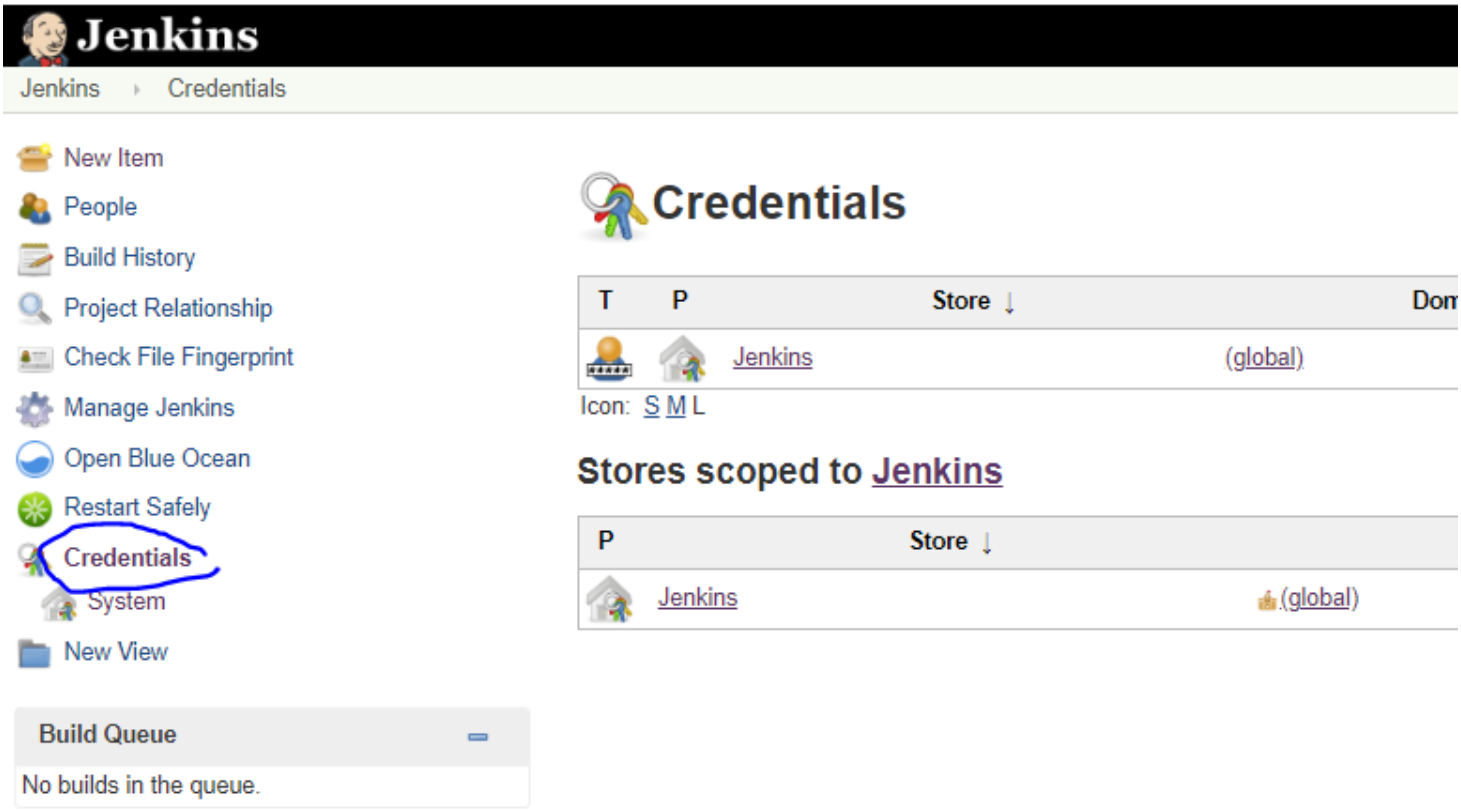
Step 3 – Create Credential in Jenkins

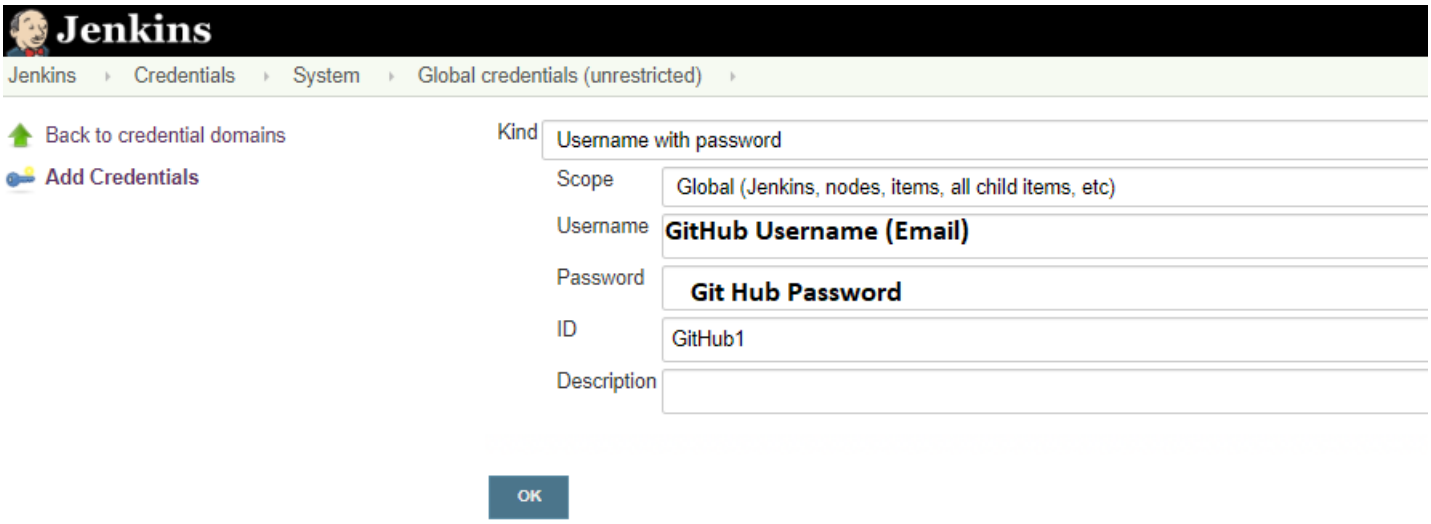
To create a job in Jenkins, we will use the source code repository from Github.com. You can use any code repository.

For this exercise, you may use this repository - https://github.com/rajagupta20/address-manager-for-pipeline

Signup at https://github.com and create your user.

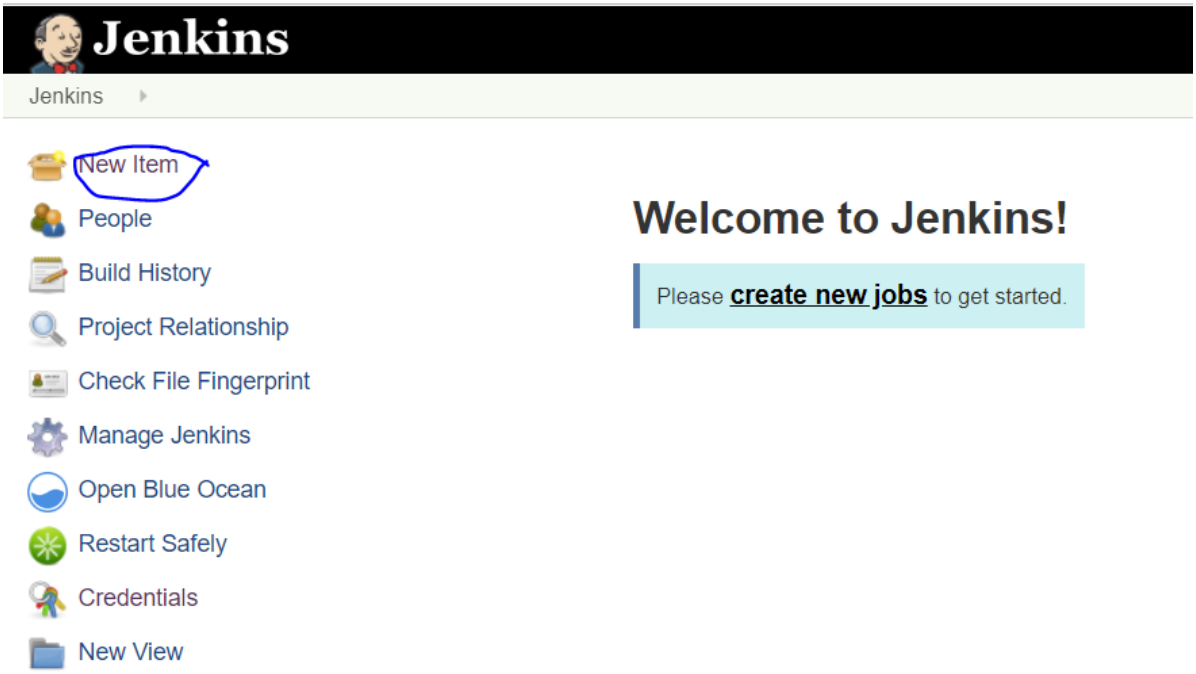
First create a credential for GitHub as below.

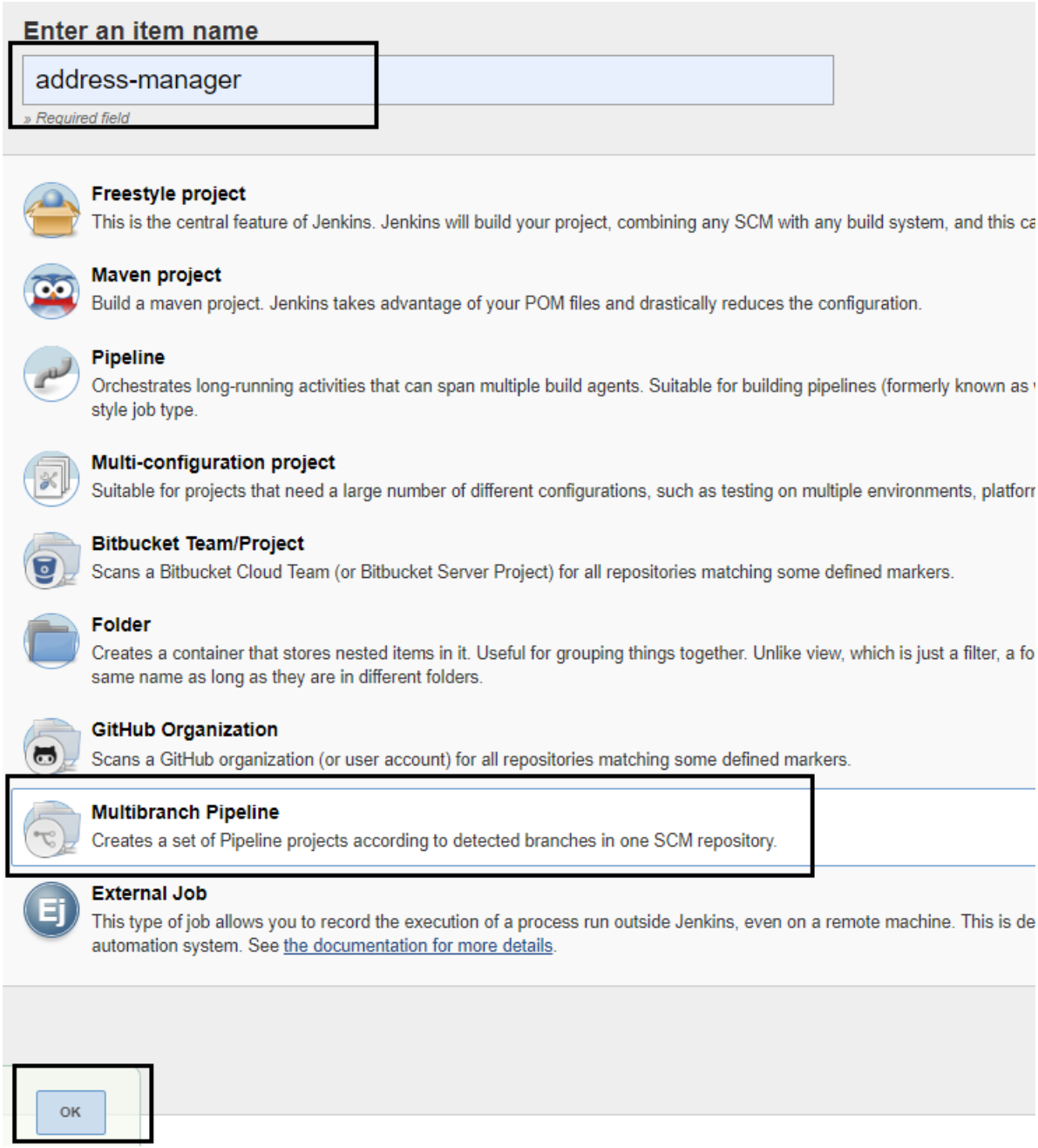




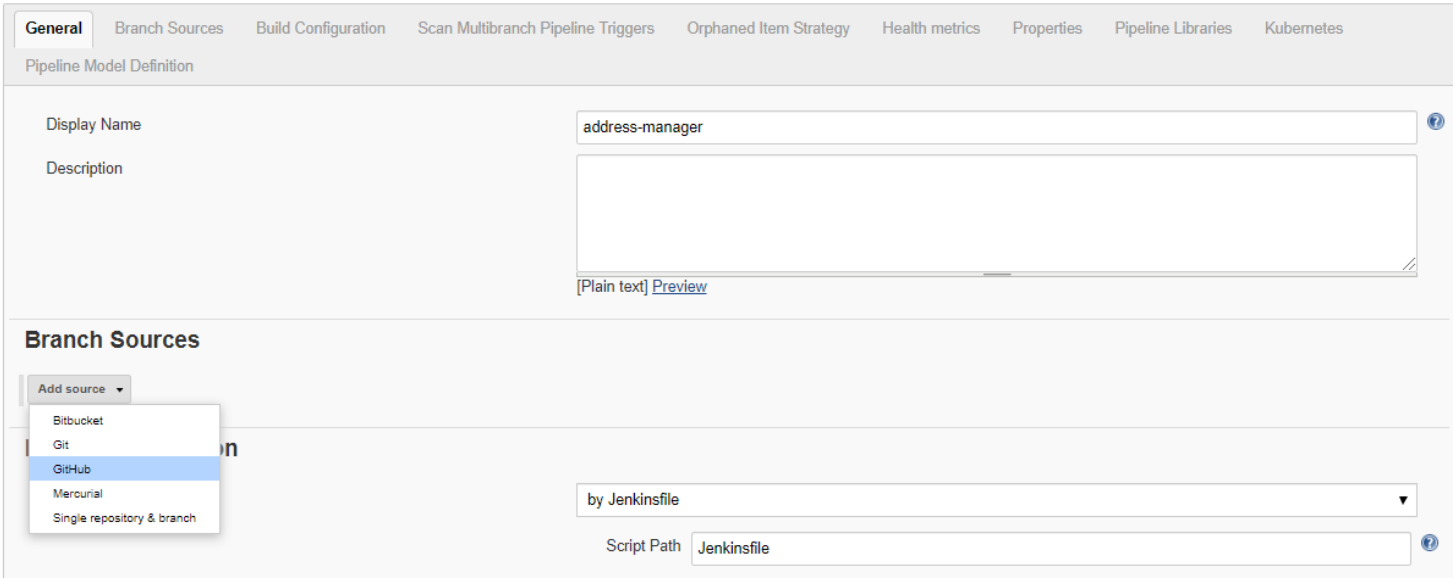
Step 4 – Create a new Job and build Pipeline

Create a new job as below.



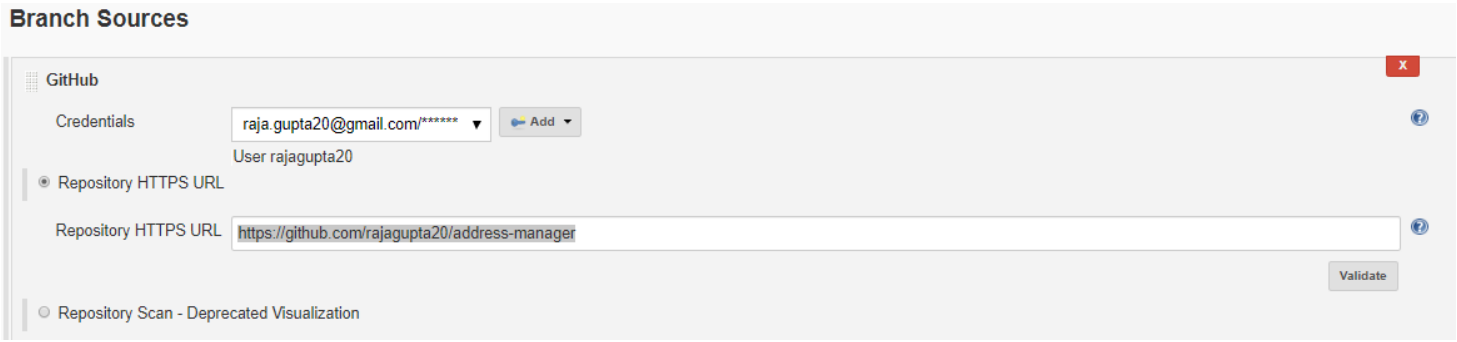


Enter **Branch Source** as GitHub.



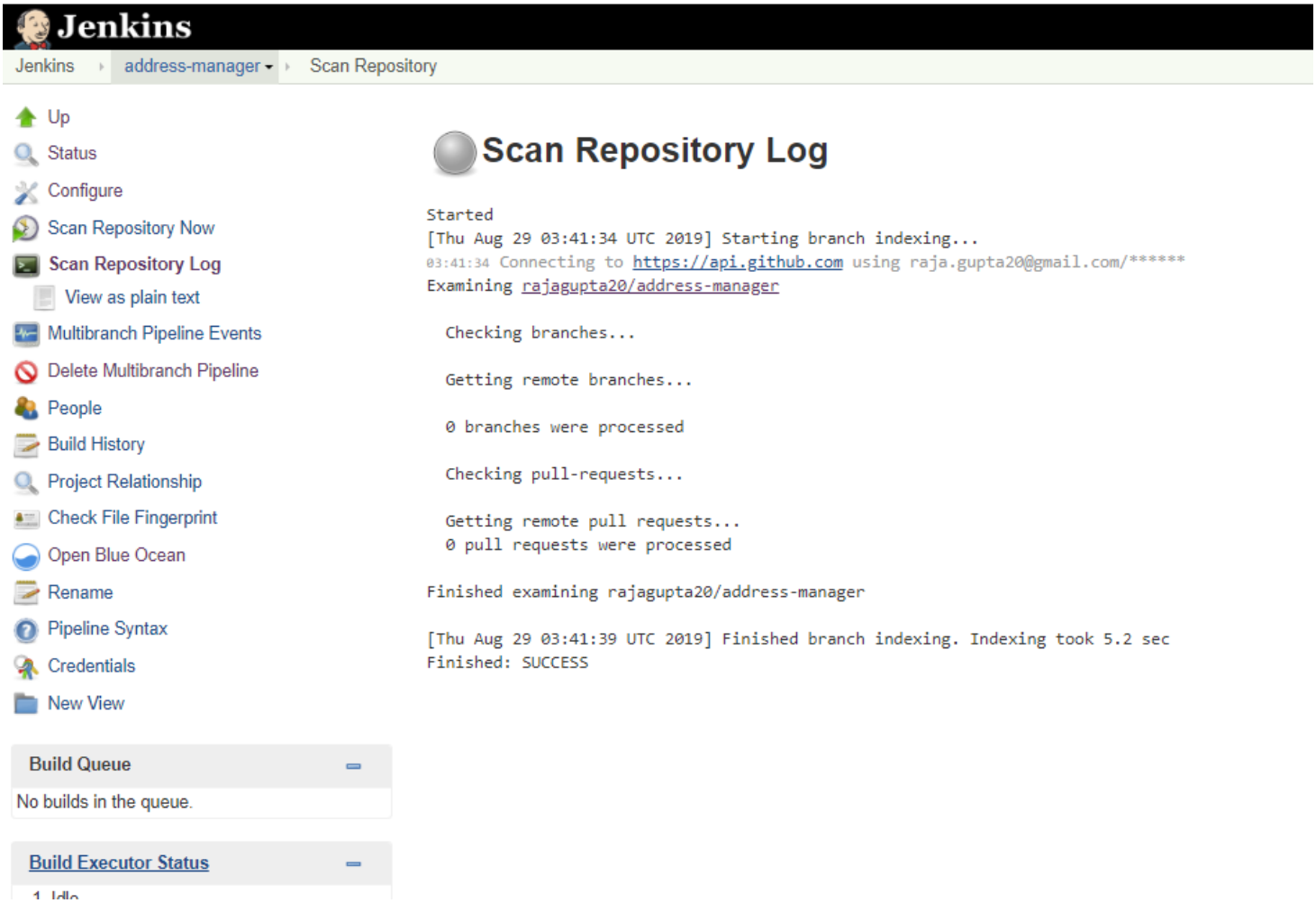
Select the credential you created in previous step.

Enter the repository URL as https://github.com/rajagupta20/address-manager

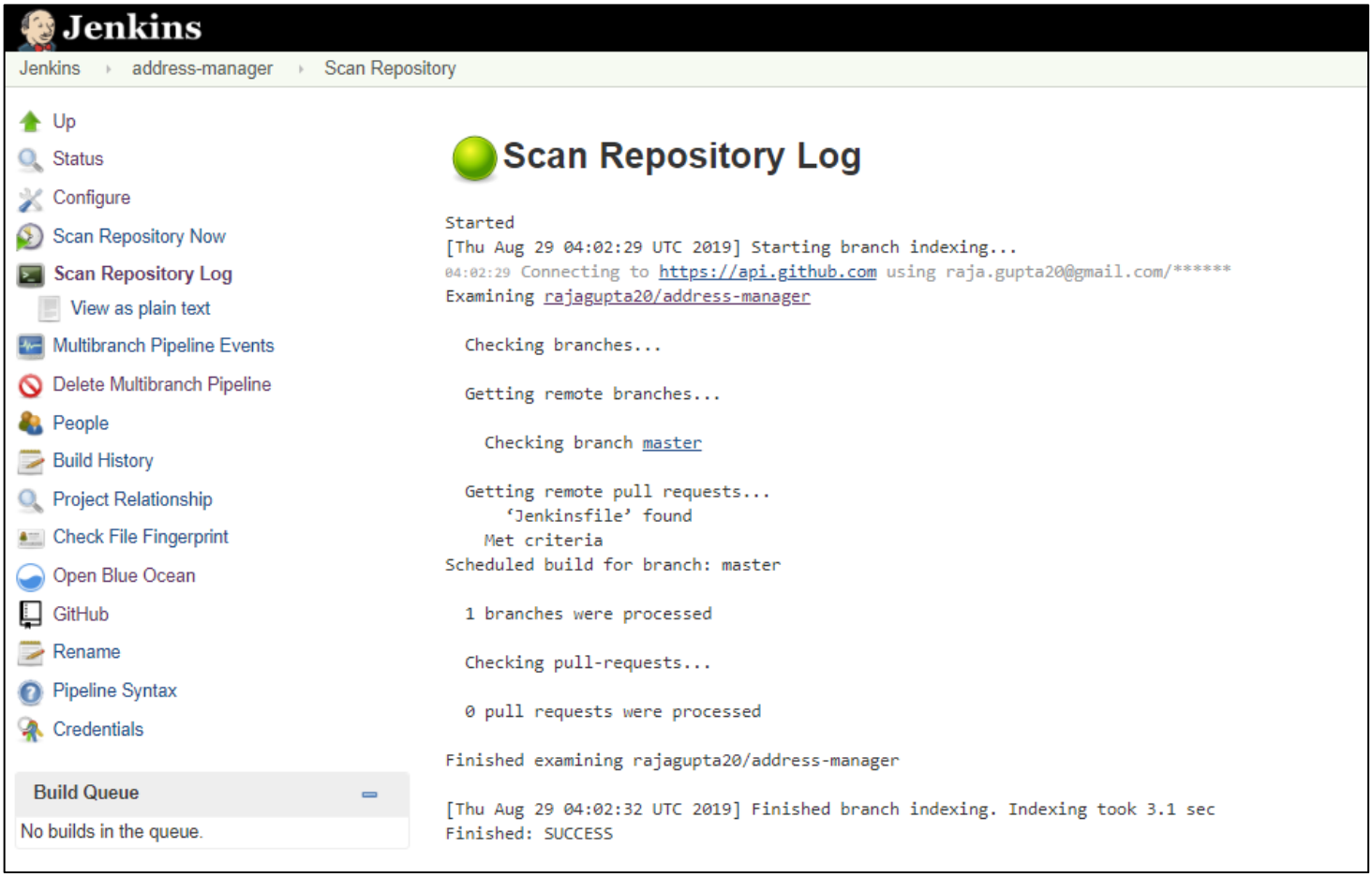


Click on **Save**.

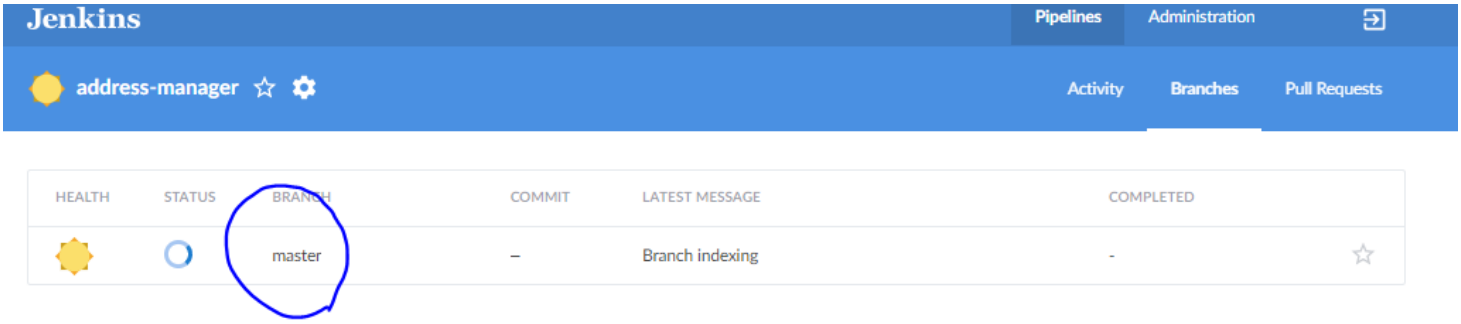
You will see the build screen as below.



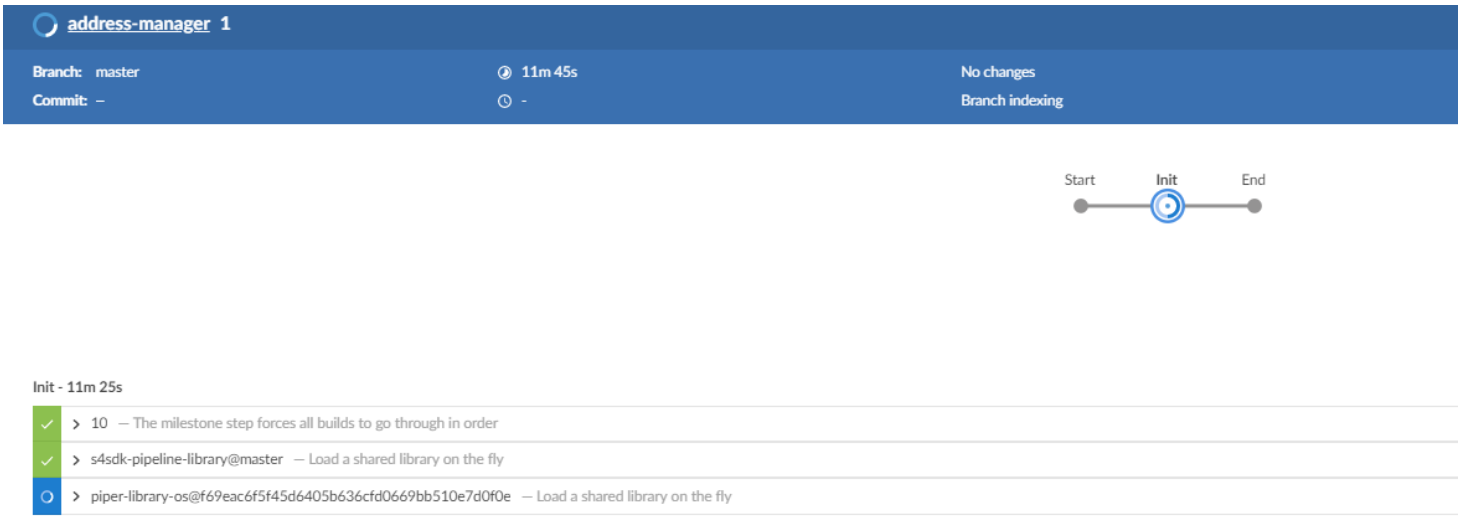
Finally the job should be created as below.



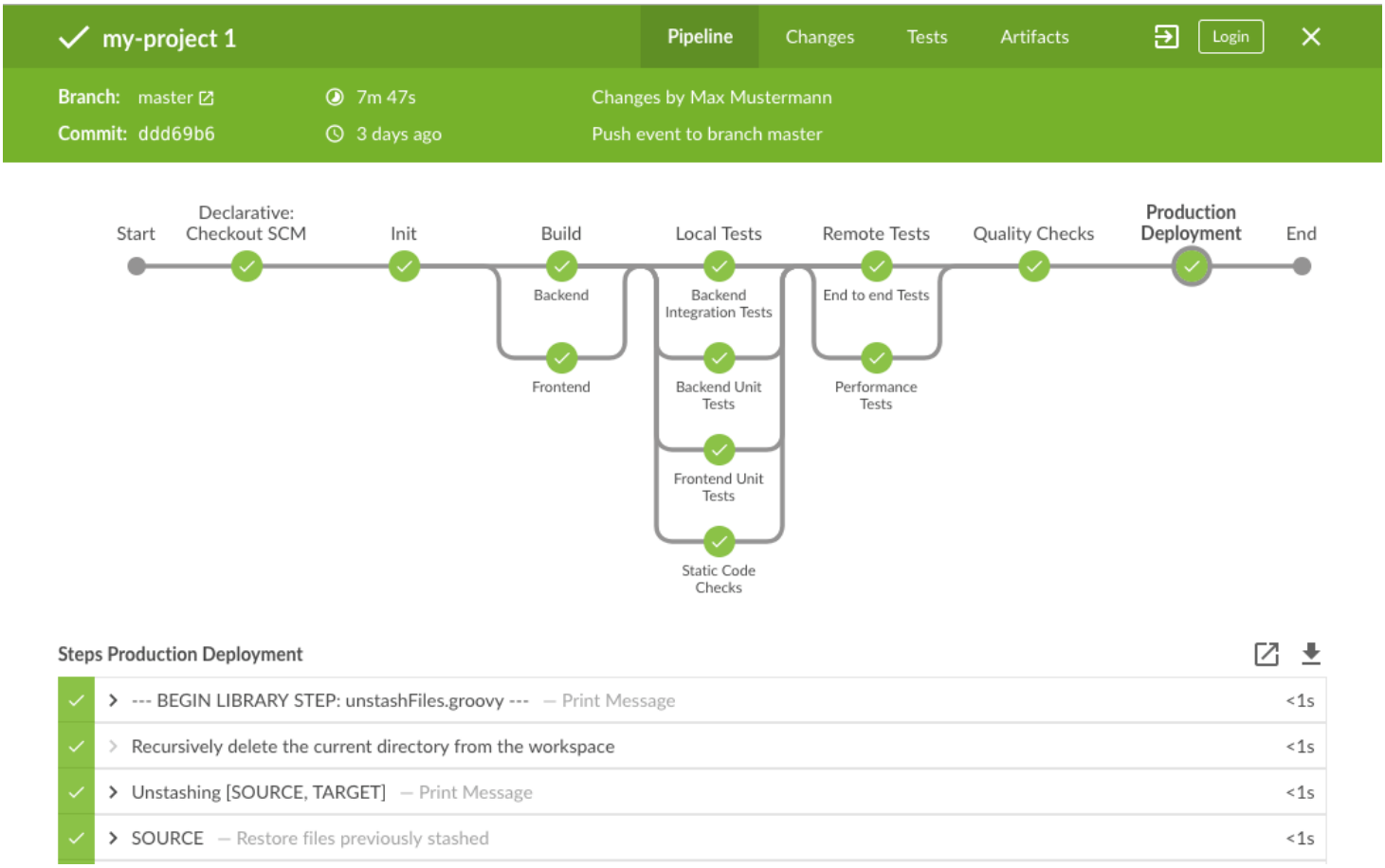
Click on the **Open Blue Ocean**. It should open the screen as below. Click on the branch.



It will show the pipeline build information as below.



Finally you should get the complete pipeline built as below.



Congratulation! You have successfully setup Continuous Delivery.