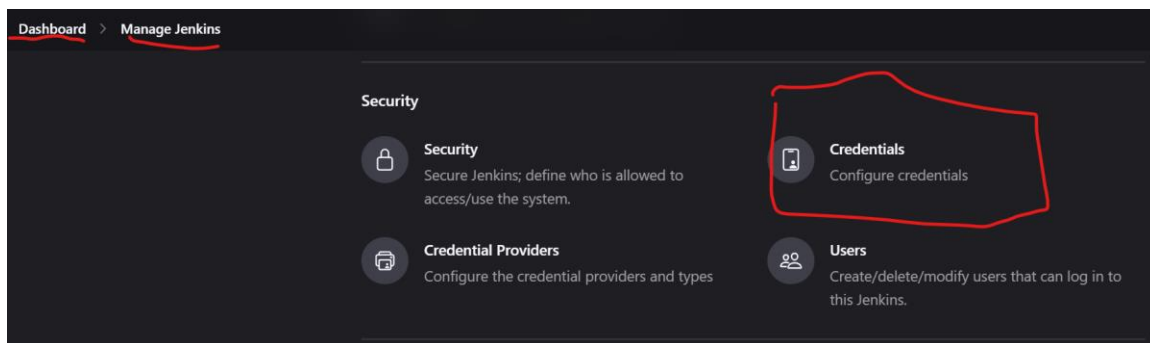


## Jenkins Pipeline AWS build 2/1/25

- 1) Create a new user IAM user in AWS console. Give that user admin and CLI rights.
- 2) Create AWS Access Key and Secret Key to be used in Jenkins for access to AWS
- 3) Start Jenkins container in docker desktop
- 4) Select port 8080:808 to open Jenkins
- 5) Login to Jenkins. Create credentials by navigating from the dashboard, manage Jenkins and then select credentials




- 6) Add AWS Access and Secret Key to Jenkins under Global domain
- 7) Go Back to the Jenkins Dashboard and Select New item
- 8) Name the New Item and select Pipeline

## New Item


Enter an item name

» This field cannot be empty, please enter a valid name


Select an item type



**Freestyle project**  
Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.



**Pipeline**  
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.



**Multi-configuration project**  
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

9) Scroll down to Pipeline and change the Definition to Pipeline script from SCM. Change SCM to Git. Add the URL from the Github repository you intend to build.

## Pipeline

Definition

Pipeline script from SCM

SCM ?

Git

Repositories ?

Repository URL ?

Please enter Git repository.

Credentials ?

- none -

+ Add

Save Apply

10) Under Branch Specifier, delete master and add Main. Select Save.

11) Make sure to add the Jenkinsfile to your Repo.

12) Open Git bash and run the following commands to add terraform to the container for your build.

install aws and terraform into your jenkins instance you intend on using.

-----

1.

`docker exec -it --user root <YOUR-CONTAINER> bash`

2. Install AWScli:

`apt update && apt install -y awscli`

```
manny@NeosEscape MINGW64 ~
$ docker ps
CONTAINER ID   IMAGE                                COMMAND                  CREATED        NAMES
58762370788e   jenkins/jenkins:lts-jdk11         "/usr/bin/tini -- /u..." 10 days ago   recursing_saha
Up 3 hours     0.0.0.0:8080->8080/tcp, 0.0.0.0:50000->50000/tcp

manny@NeosEscape MINGW64 ~
$ docker exec -it --user root 587 bash
root@58762370788e:/# apt update && apt install -y awscli
Hit:1 http://deb.debian.org/debian bookworm InRelease
Get:2 http://deb.debian.org/debian bookworm-updates InRelease [55.4 kB]
Get:3 http://deb.debian.org/debian-security bookworm-security InRelease [48.0 kB]
```

3. Make a new directory for install:

`mkdir -p /home/jenkins/bin`

4. Curl and install Terraform:

`curl -fsSL https://releases.hashicorp.com/terraform/1.5.7/terraform_1.5.7_linux_amd64.zip -o /home/jenkins/terraform.zip`

5. Unzip:

`unzip /home/jenkins/terraform.zip -d /home/jenkins/bin`

6. Cleaning Up Zips:

`rm /home/jenkins/terraform.zip`

`export PATH="/home/jenkins/bin:$PATH"`

7. Move terraform to /usr/local/bin:

`mv /home/jenkins/bin/terraform /usr/local/bin`

8. Check the version to verify

`terraform version`

13) Head back to Jenkins and press play on your Pipeline

status of the last build

S	W	Name ↓	Last Success	Last Failure	Last Duration	
✓	☀	JenkinsSatTest01	1 day 19 hr #1	N/A	43 min	▶

14) Select Console Output and watch the build for errors

15) Celebrate because the build completed successfully!

16)

- To view the terraform files deployed by jenkins follow the path below:

/var/jenkins\_home/workspace/<PIPELINENAME>

-----

How to tear Down the resources Jenkins deployed using Terraform:

-----

- To view the active terraform configuration use the exec or ssh of you container and change directories into the path below:

----

cd var/jenkins\_home/workspace/<PIPELINENAME>

-----

- Input AWS Credentials into the CLI of your container Login to destroy:

----

export AWS\_ACCESS\_KEY\_ID="LIZZOLOVESYOU"

export AWS\_SECRET\_ACCESS\_KEY="LIZZOLOVESYOU2"

export AWS\_REGION="LIZZOLOVESYOUINYOURHOUSE"

-----

- Run Terraform Destroy

----

terraform destroy