

## Project: Setting Up Jenkins Pipeline to Deploy Docker Swarm.

### Screenshot:

#### Jenkins Password



Getting Started

## Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log (not sure where to find it?) and this file on the server:

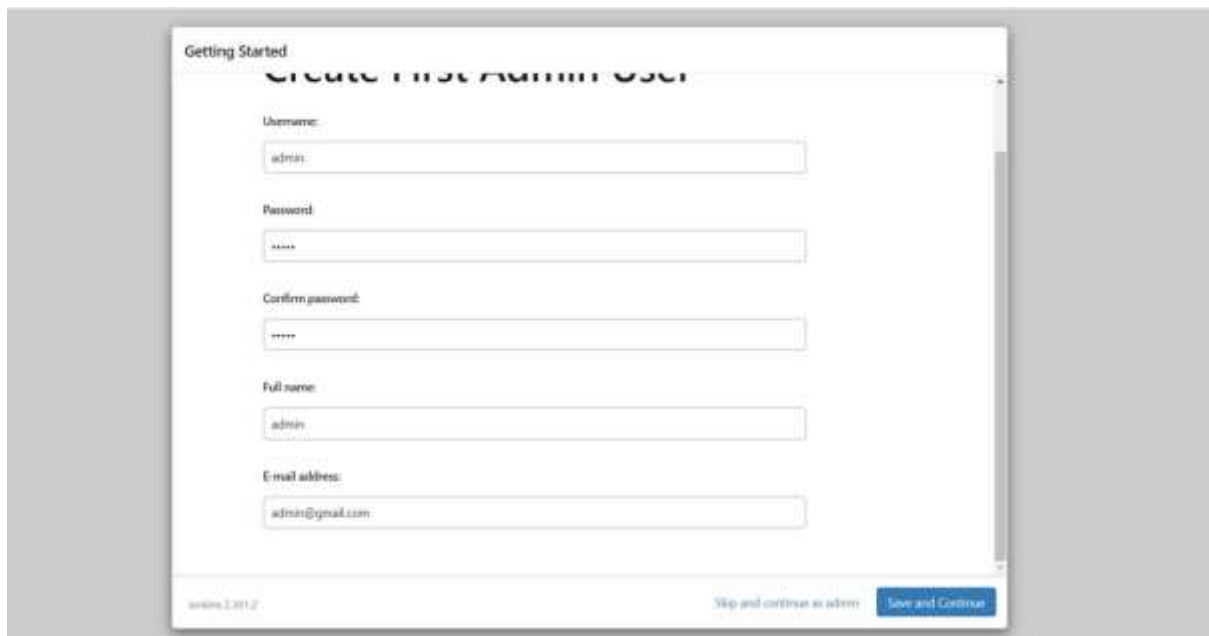
```
/var/lib/jenkins/secrets/initialAdminPassword
```

Please copy the password from either location and paste it below.

Administrator password

Continue

#### Jenkins Acc creation



Getting Started

## Create first Admin User

Username:

Password:

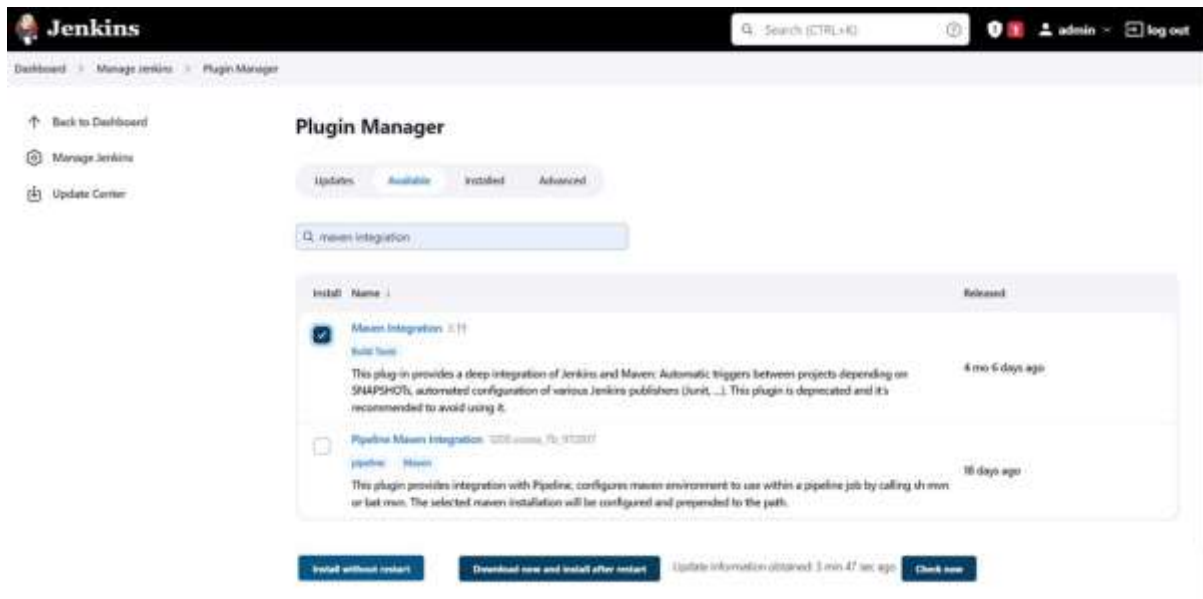
Confirm password:

Full name:

E-mail address:

Jenkins 2.301.2 Skip and continue as admin Save and Continue

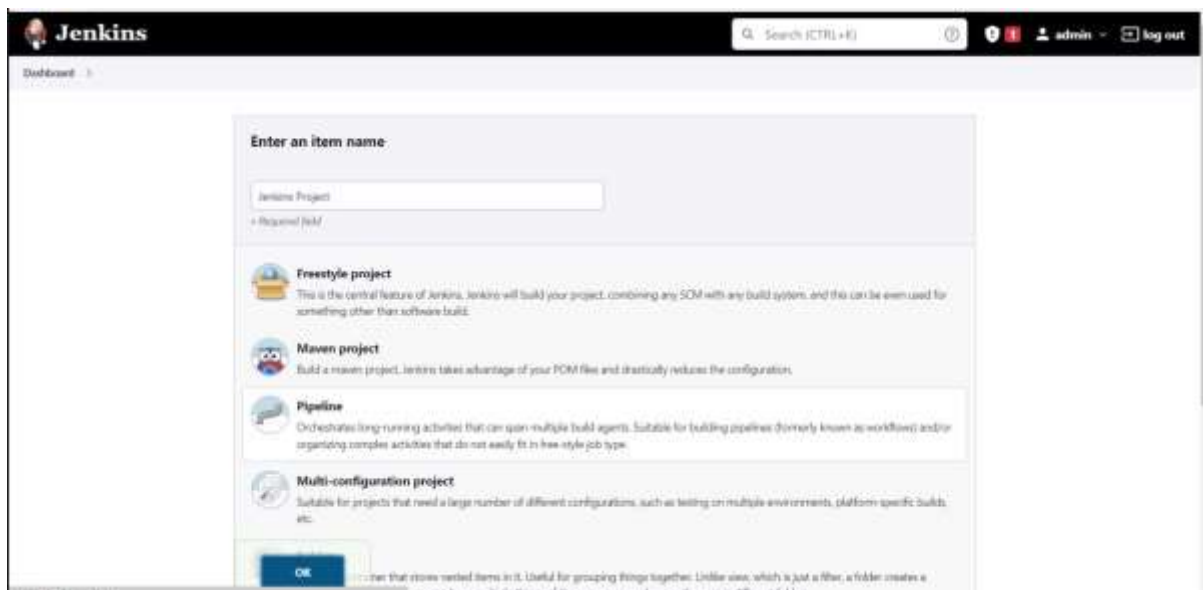
## Maven Integration



The screenshot shows the Jenkins Plugin Manager interface. The top navigation bar includes the Jenkins logo, a search bar, and user information (admin, log out). The left sidebar contains links to Dashboard, Manage Jenkins, and Plugin Manager. The main content area is titled 'Plugin Manager' and features tabs for Updates, Available, Installed, and Advanced. A search bar contains the text 'maven integration'. Below the search bar, a table lists available plugins. The first entry is 'Maven Integration' (version 3.11), which is marked as installed with a checkmark. It is described as a 'Build Tool' plugin that provides a deep integration of Jenkins and Maven, including automatic triggers and snapshot configuration. It is noted as deprecated and recommended for avoidance. The second entry is 'Pipeline Maven Integration' (version 1.0.0), marked as available with a plus icon. It is described as a 'Pipeline' plugin that integrates with Pipeline, configuring the Maven environment for use within a pipeline job. At the bottom, there are buttons for 'Install without restart', 'Download now and install after restart', and 'Check now', along with a timestamp indicating update information was obtained 3 minutes and 47 seconds ago.

Install	Name	Released
<input checked="" type="checkbox"/>	<b>Maven Integration</b> 3.11 <a href="#">Build Tool</a> This plugin provides a deep integration of Jenkins and Maven: Automatic triggers between projects depending on SNAPSHOTS, automated configuration of various Jenkins publishers (JUnit, ...). This plugin is deprecated and it's recommended to avoid using it.	4 mo 6 days ago
<input type="checkbox"/>	<b>Pipeline Maven Integration</b> 1.0.0 <a href="#">Maven</a> <a href="#">pipeline</a> <a href="#">Maven</a> This plugin provides integration with Pipeline, configures maven environment to use within a pipeline job by calling mvn or mvn.cmd. The selected maven installation will be configured and prepended to the path.	16 days ago

## Pipeline Creation



The screenshot shows the Jenkins Pipeline Creation wizard. The top navigation bar is identical to the previous screenshot. The left sidebar shows the Dashboard link. The main content area is titled 'Enter an item name' and features a text input field containing 'Jenkins Project'. Below the input field, there is a list of project types with icons and descriptions: 'Freestyle project' (a box icon), 'Maven project' (a maven icon), 'Pipeline' (a pipeline icon), and 'Multi-configuration project' (a multi-configuration icon). At the bottom, there is an 'OK' button and a small text note: '... that shows nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a ... can have multiple folders of the same name as long as they are in different folders'.

Enter an item name

Jenkins Project

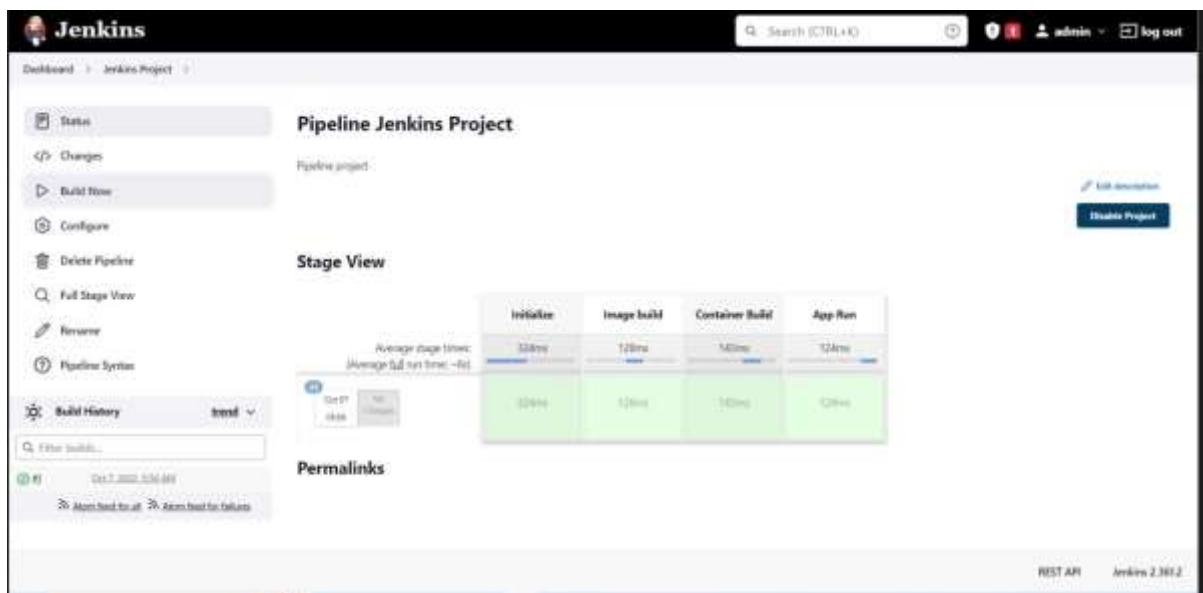
a Required field

- Freestyle project**  
This is the central feature of Jenkins, Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.
- Maven project**  
Build a maven project, Jenkins takes advantage of your POM files and drastically reduces the configuration.
- 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.

OK

... that shows nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a ... can have multiple folders of the same name as long as they are in different folders

## Build Now

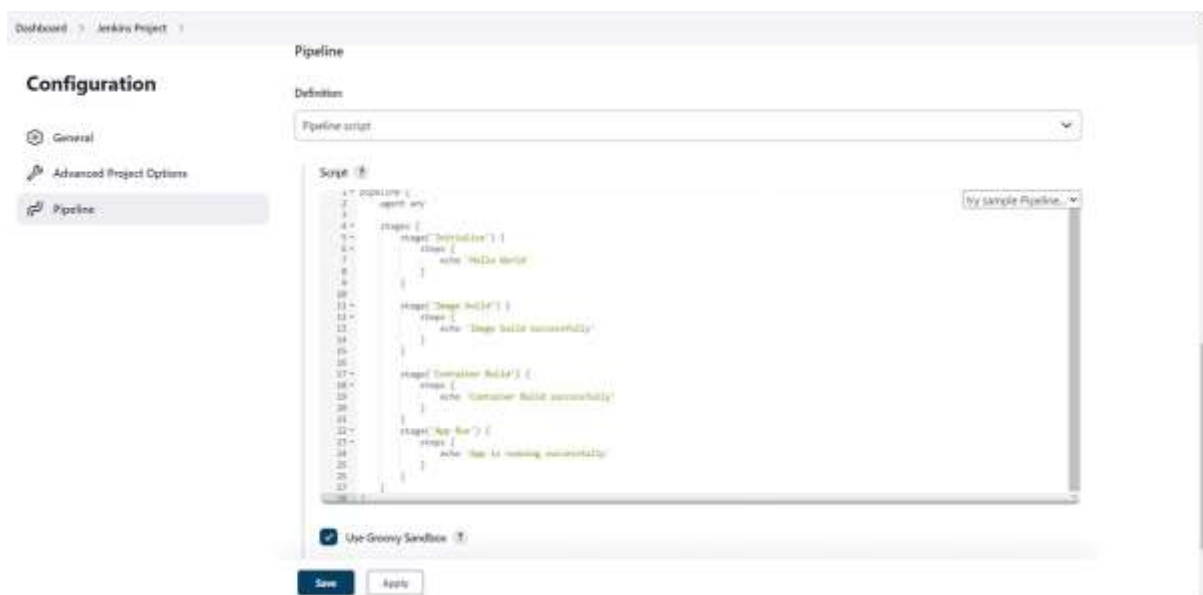


The Jenkins dashboard for the 'Pipeline Jenkins Project' shows the 'Build Now' button highlighted in the left sidebar. The main area displays the 'Stage View' with a table of stages and their durations.

Stage	Duration
Initialize	138ms
Image build	128ms
Container Build	140ms
App Run	124ms

The 'Permalinks' section shows a list of builds with a filter for 'All' and a 'Build History' button.

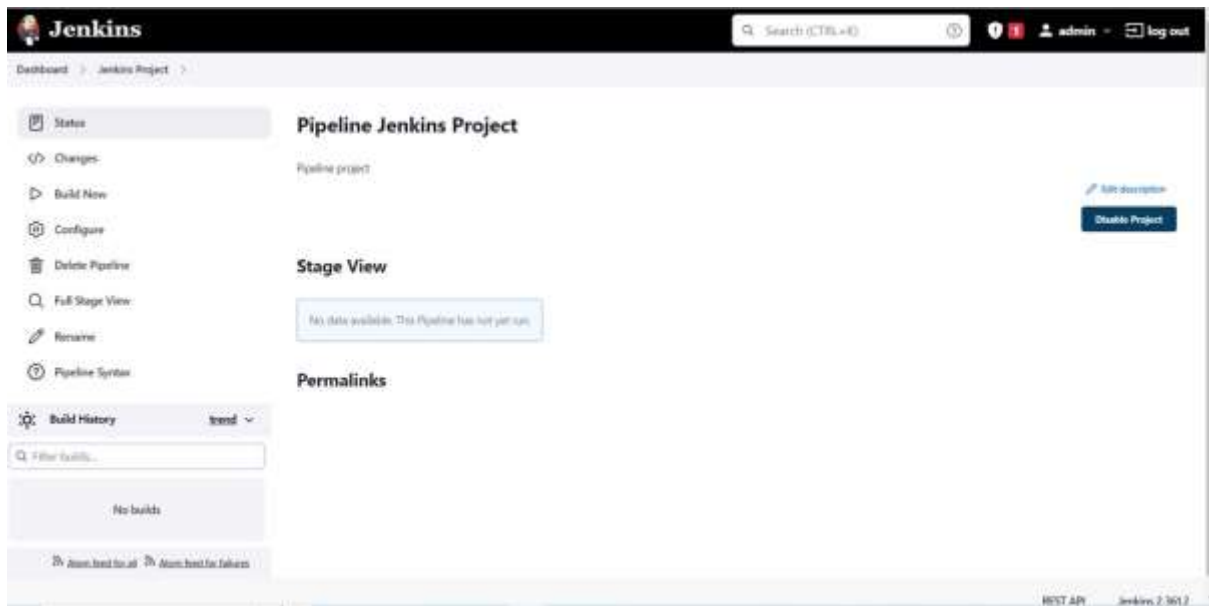
## Pipeline Creation



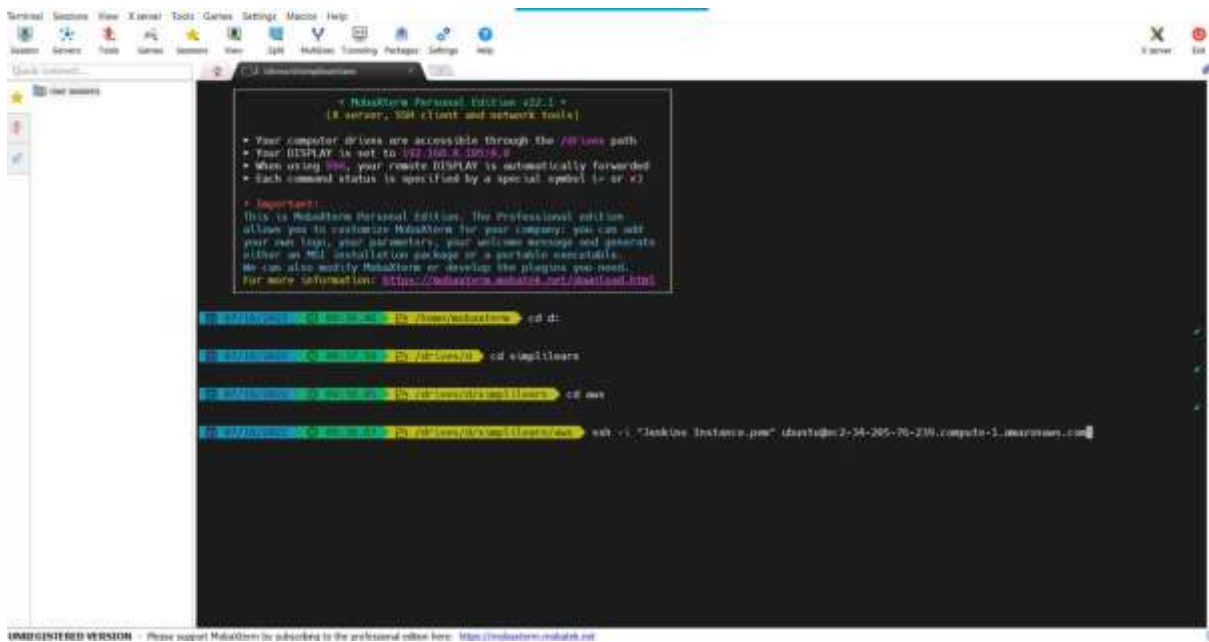
The Jenkins 'Pipeline Configuration' page shows the 'Definition' section with a 'Pipeline script' dropdown. The 'Script' section contains a Groovy script for a pipeline with four stages: 'Initialize', 'Image build', 'Container Build', and 'App Run'.

```
1 pipeline {
2   agent any
3
4   stages {
5     stage('Initialize') {
6       steps {
7         echo 'Hello World!'
8       }
9     }
10
11     stage('Image build') {
12       steps {
13         echo 'Image build successfully'
14       }
15     }
16
17     stage('Container Build') {
18       steps {
19         echo 'Container Build successfully'
20       }
21     }
22
23     stage('App Run') {
24       steps {
25         echo 'App is running successfully'
26       }
27     }
28   }
29 }
```

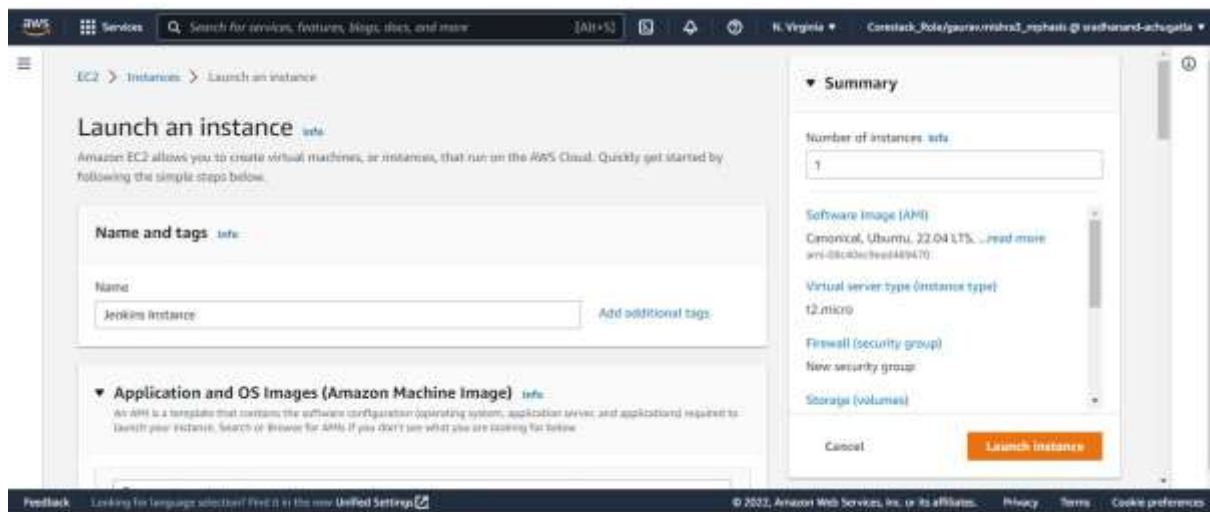
The 'Use Groovy Sandbox' checkbox is checked. The 'Save' and 'Apply' buttons are visible at the bottom.



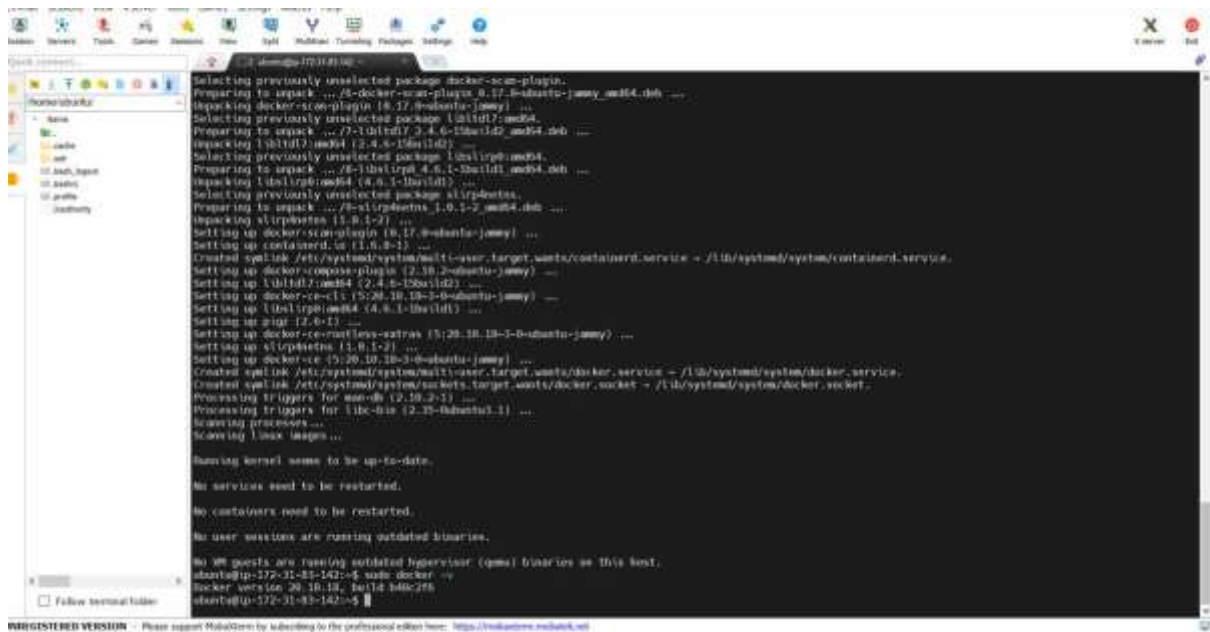
## Moba xterm



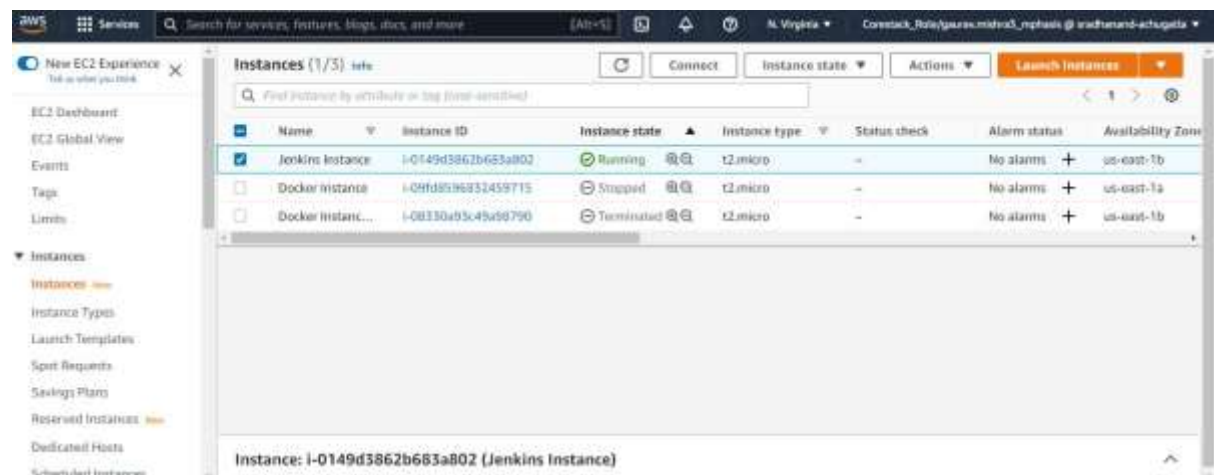
## Instance Creation



## Moba Xterm



## Instance Creation



## Moba Xterm

