

Instruction Set : Jenkins on Docker

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Docker Installation

On Ubuntu

To install docker on your machine you need to run following command on terminal.

```
$ wget -qO- https://get.docker.com/ | sh
$ sudo usermod -aG docker user
$ sudo service docker restart
$ exit
```

Next reopen your terminal or re login into user. To verify docker service and version type following.

```
$ docker
$ docker -v
```

(Note: To open terminal on an Ubuntu machine press Ctrl+Alt+T)

Jenkins Container

To run a jenkins docker container type following command on your machine. This command will spin up a jenkins docker container on your machine.

```
$ docker run -it -P -d --name jenkins jenkins
```

To verify the jenkins docker container

```
$ docker ps | grep jenkins
```

```
$docker ps | grep jenkins
bfb2c5730d2e      jenkins
>50000/tcp        jenkins

"/bin/tini -- /usr/lo" 21 minutes ago Up 23 seconds 0.0.0.0:32769->8080/tcp, 0.0.0.0:32768-
```

To run jenkins on browser

```
$ ifconfig | grep -w inet
```

This will provide you your IP, now find the port for jenkins by using following command

```
$ docker port jenkins | grep 8080
```

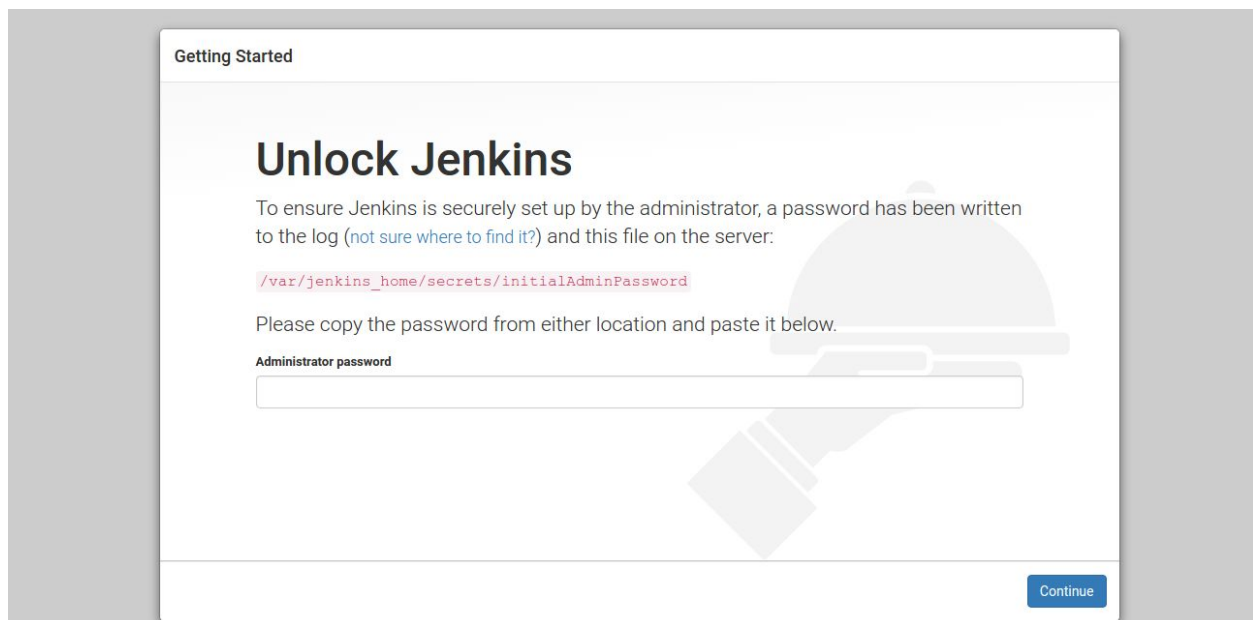
This will show you the host's mapped port for 8080 (ex. 32769)

Now open your browser and type on URL bar

```
<your ip address>:<mapped>
```

ex. 192.168.62.5:32771

And that will show you a screen like the below one.



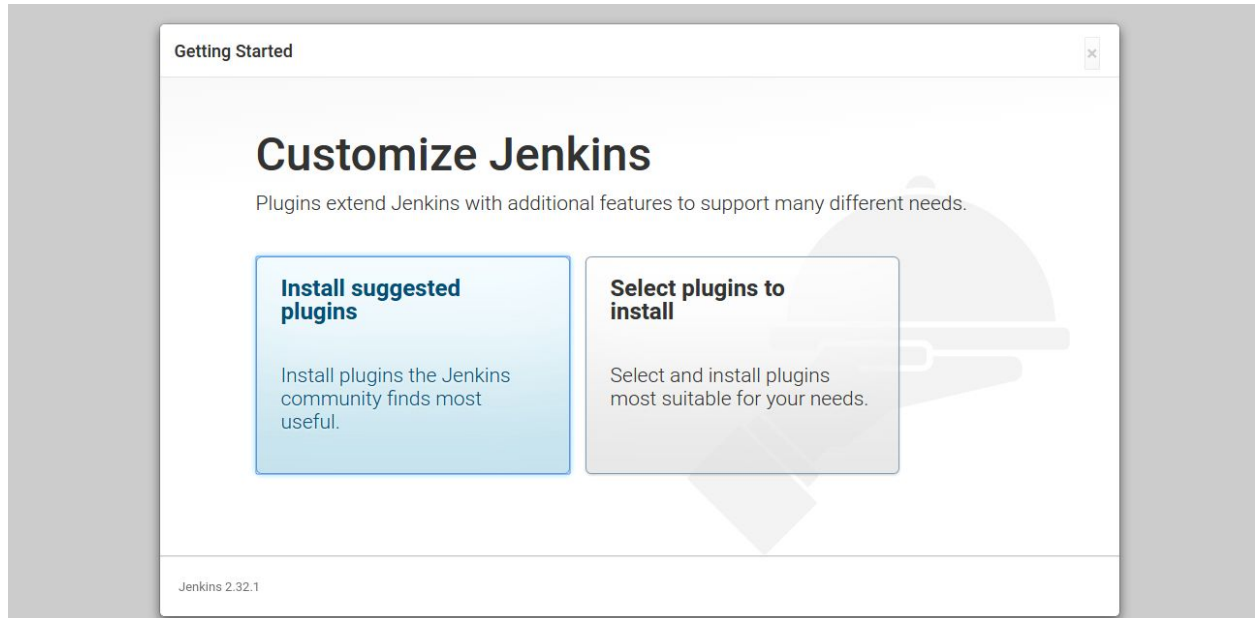
Configure Jenkins

Get the password using following command

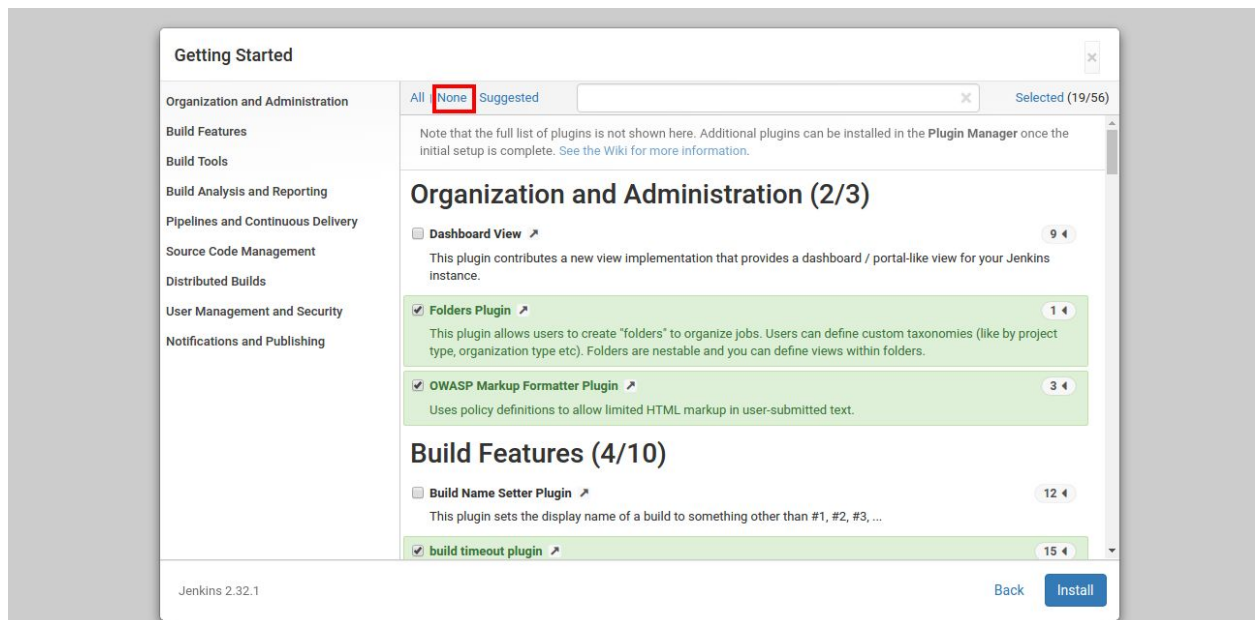
```
$ docker exec -it jenkins /bin/cat /var/jenkins_home/secrets/initialAdminPassword
```

```
$ docker exec -it jenkins /bin/cat /var/jenkins_home/secrets/initialAdminPassword  
36c3c488774c405d9702b6415cb5b0f8
```

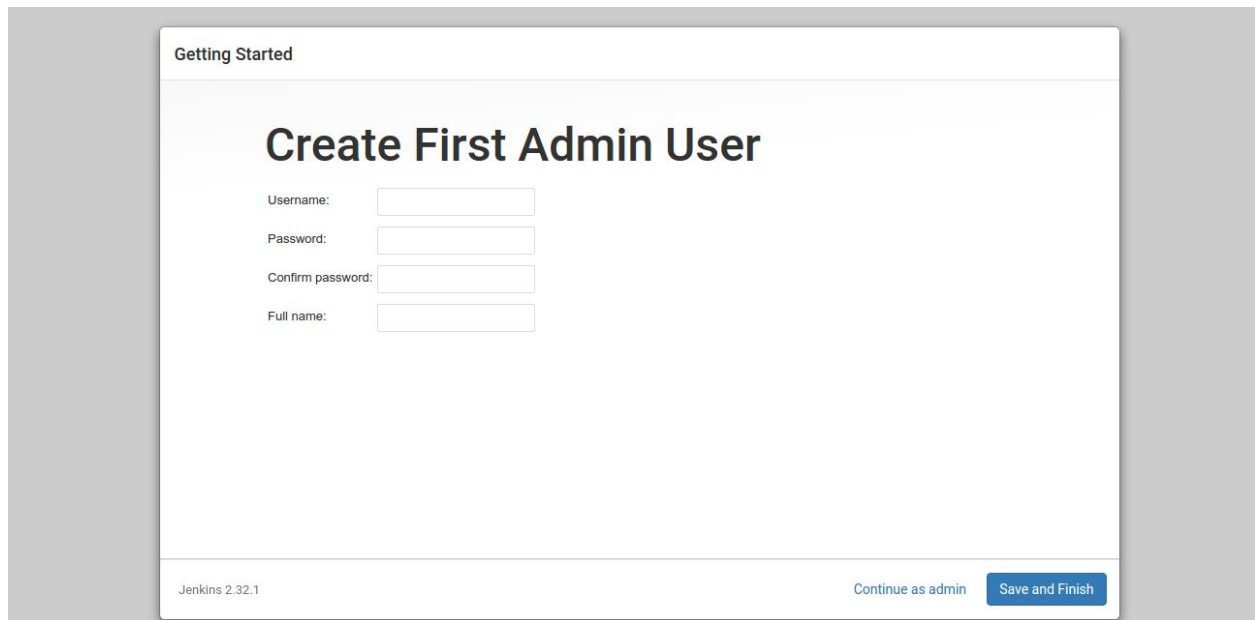
Copy this password and paste in the jenkins page and press continue. This will show a page similar to below.



Press on "Select plugins to install" section. And then select "None". We will install plugin later.



This will lead you to the following screen.



The screenshot shows the 'Getting Started' page of Jenkins 2.32.1. The main heading is 'Create First Admin User'. Below it are four input fields: 'Username:', 'Password:', 'Confirm password:', and 'Full name:'. At the bottom right, there are two buttons: 'Continue as admin' and 'Save and Finish'. The version 'Jenkins 2.32.1' is displayed in the bottom left corner.

Getting Started

Create First Admin User

Username:

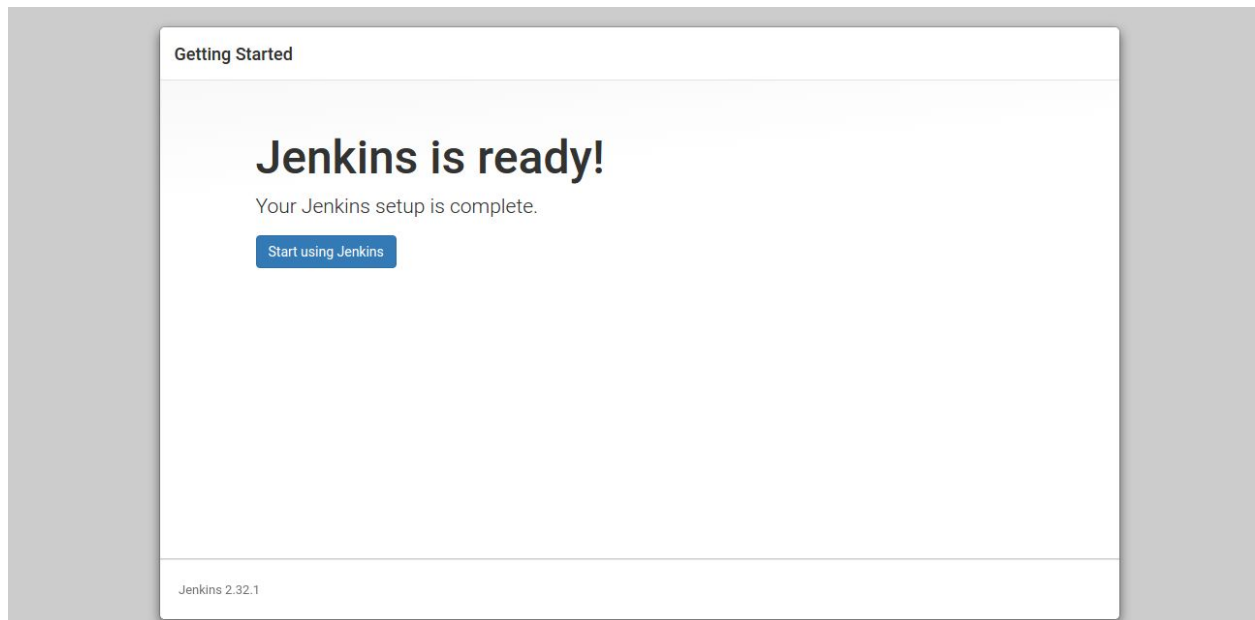
Password:

Confirm password:

Full name:

Jenkins 2.32.1 [Continue as admin](#) [Save and Finish](#)

Provide your essential detail to create a user. Now start using Jenkins.



The screenshot shows the 'Getting Started' page of Jenkins 2.32.1 after successful setup. The main heading is 'Jenkins is ready!'. Below it, the text says 'Your Jenkins setup is complete.' and there is a blue button labeled 'Start using Jenkins'. The version 'Jenkins 2.32.1' is displayed in the bottom left corner.

Getting Started

Jenkins is ready!

Your Jenkins setup is complete.

[Start using Jenkins](#)

Jenkins 2.32.1

Try to start creating jobs.

-  [New Item](#)
-  [People](#)
-  [Build History](#)
-  [Manage Jenkins](#)
-  [My Views](#)

[add description](#)

Welcome to Jenkins!

Please [create new jobs](#) to get started.

Build Queue

No builds in the queue.

Build Executor Status

- 1 Idle
- 2 Idle