

Establish SSH login on Ubuntu virtual machine

In guest machine:

Login as a super user on the machine

```
sudo su
```

Update system packages:

```
apt update
```

Create a new user:

```
adduser <USERNAME>
```

Give super user privileges to the new user:

```
sudo usermod -aG sudo <USERNAME>
```

Create .ssh folder and authorized_files folder in home:

```
sudo mkdir ~/.ssh
```

```
sudo chmod 700 ~/.ssh
```

```
sudo touch ~/.ssh/authorized_keys
```

```
sudo chmod 600 ~/.ssh/authorized_keys
```

```
sudo chown -R <USERNAME>:<USERNAME> ~/.ssh
```

In host machine:

Generate SSH key pair:

```
ssh-keygen
```

In Windows, copy the public key to clipboard:

```
type C:\Users\<USER>\.ssh\<KEY_NAME>.pub | CLIP
```

In guest machine:

Copy the public key to authorized_keys file:

```
sudo echo "<PUBLIC_KEY>" >> ~/.ssh/authorized_keys
```

In host machine:

Login to the guest machine using ssh:

```
ssh <USERNAME>@<GUEST_IP_ADDRESS>
```

Installing Docker on Ubuntu virtual machine

Update system

```
sudo apt update
```

Install prerequisites for apt

```
sudo apt install apt-transport-https ca-certificates curl  
software-properties-common
```

Add GPG key for Docker repository

```
curl -fsSL https://download.docker.com/linux/ubuntu/gpg |  
sudo apt-key add -
```

Update system

```
sudo apt update
```

Add Docker CE repository to system

```
sudo add-apt-repository "deb [arch=amd64]  
https://download.docker.com/linux/ubuntu focal stable"
```

Make sure to install from Docker repository

```
apt-cache policy docker-ce
```

Install Docker CE

```
sudo apt install docker-ce
```

Check Docker service status (should be active)

```
systemctl status docker
```

Add user to docker group (to avoid using sudo for Docker commands)

```
sudo usermod -aG docker <USERNAME>
```

```
su - <USERNAME>
```

Check version

```
docker version
```

Installing Jenkins on a Docker container

Pull most recent Jenkins LTS version (can be checked in <https://hub.docker.com/r/jenkins/jenkins>):

```
docker pull jenkins/jenkins:lts-jdk11
```

Create a new container to run Jenkins using Docker:

```
docker run -p 8080:8080 -p 50000:50000 -v jenkins_home:/var/jenkins_home  
jenkins/jenkins:lts-jdk11
```

Make sure to have initial administrator password at hand (automatically generated and shown in logs):

```
Jenkins initial setup is required. An admin user has been  
created and a password generated.
```

```
Please use the following password to proceed to installation:
```

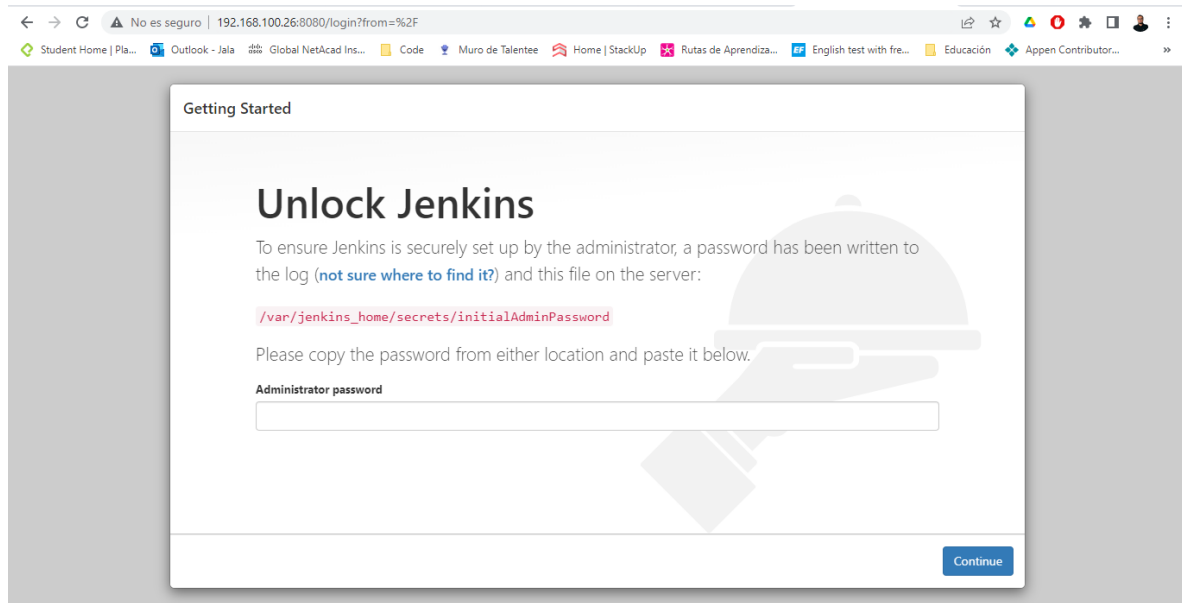
```
1883c809f01b4ed585fb5c3e0156543a
```

```
This may also be found at:  
/var/jenkins_home/secrets/initialAdminPassword
```

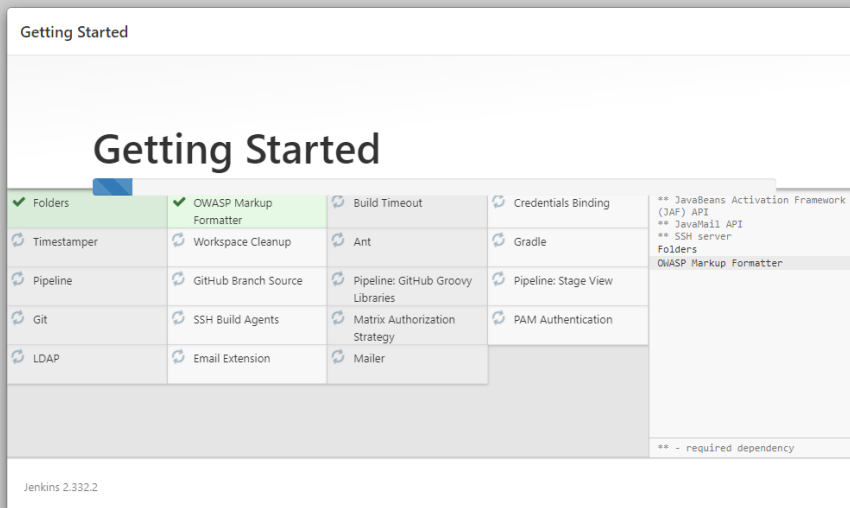
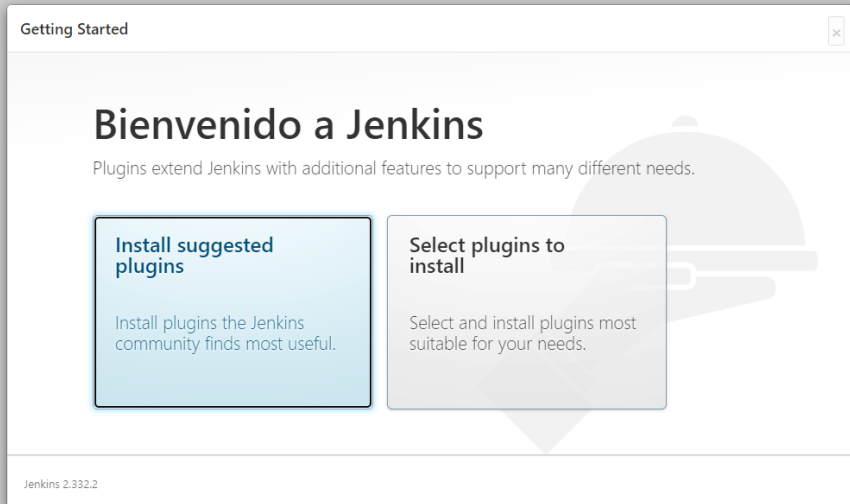
Wait for this message to be shown in logs:

```
Jenkins is fully up and running
```

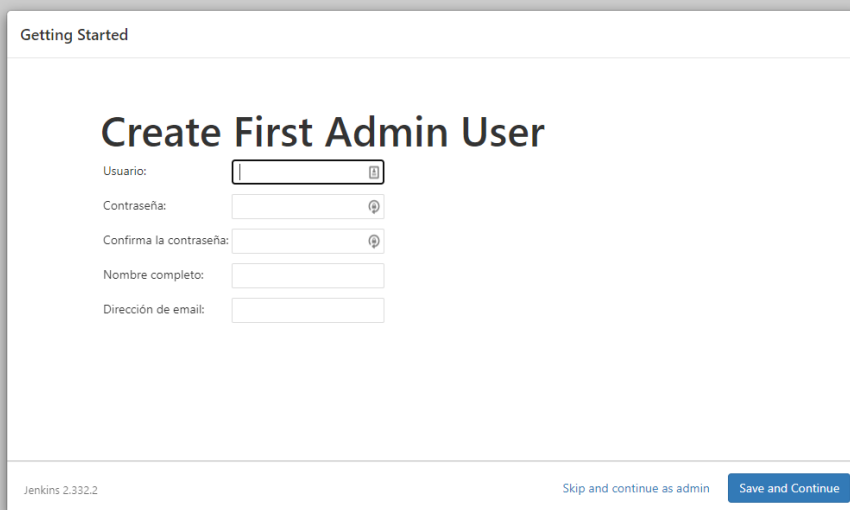
Then go to the browser, open a new tab and go to `http://<LOCAL_HOST_IP_ADDRESS>:8080`. Add the initial administrator password and click on Continue.



Choose "Install suggested plugins" and wait until the installation is finished.



Create the first admin user. Fill all the fields and click Save and Continue.



Choose the Jenkins URL to access Jenkins. Leaving the one that is default is recommended.

Getting Started

Instance Configuration

Jenkins URL:


The Jenkins URL is used to provide the root URL for absolute links to various Jenkins resources. That means this value is required for proper operation of many Jenkins features including email notifications, PR status updates, and the `BUILD_URL` environment variable provided to build steps.





The proposed default value shown is **not saved yet** and is generated from the current request, if possible. The best practice is to set this value to the URL that users are expected to use. This will avoid confusion when sharing or viewing links.

Jenkins 2.332.2


Not nowSave and Finish


Jenkins has been installed and is ready to use.


 **Jenkins**


   Sebastian Beltran  Desconectar


Panel de Control


 Nueva Tarea


 Personas

 Historial de trabajos

 Administrar Jenkins

 Mis vistas

 Lockable Resources


 New View

Trabajos en la cola

No hay trabajos en la cola

Estado del ejecutor de construcciones

1 Inactivo

 añadir descripción

¡Bienvenido a Jenkins!

This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.

Start building your software project

Create a job →

Set up a distributed build

Set up an agent →

Configure a cloud →

Learn more about distributed builds ↗