

 johnbedeir / **Devops-Tools-Documentation** Public[Code](#) [Issues 4](#) [Pull requests](#) [Actions](#) [Projects](#) [Security](#) [I](#)[main](#) ▾[Devops-Tools-Documentation](#) / [Jenkins](#) / **Deploy-website-EC2-Jenkins** /

...



johnbedeir adjust jenkins dir



✓ on Apr 20

[History](#)

..



README.md

7 months ago

README.md

Steps to Deploy Website on EC2 Instance using Jenkins

[Watch Jenkins and AWS شرح step by step on YouTube](#)

Step 1:

Create AWS account & Sign In:

<https://aws.amazon.com/>

Step 2:

1. Create EC2 instance
2. Security Groups Rules:
 1. SSH
 2. HTTP: 80
 3. Custom rule: 8080
 4. Custom rule:5000
3. Create Key_Pair
Download the .pem file

Step 3:

Change <file.pem> permissions

```
sudo chmod 400 file.pem
```

Step 4:

Connect to the created EC2 instance:

```
sudo ssh -i file.pem ubuntu@PUBLIC_IPv4_DNS_NAME
```

Step 5:

Install Jenkins:

```
sudo apt update -y
```

```
sudo apt-get install openjdk-8-jdk -y
```

```
java -version
```

```
readlink -f $(which java)
```

```
JAVA_HOME=/usr/lib/jvm/java-8-openjdk-amd64/jre/bin/java
```

```
echo $JAVA_HOME
```

```
export JAVA_HOME
```

```
sudo apt install wget
```

```
wget -q -O - https://pkg.jenkins.io/debian-stable/jenkins.io.key | sudo
```

```
sudo sh -c 'echo deb https://pkg.jenkins.io/debian-stable binary/ > \
/etc/apt/sources.list.d/jenkins.list'
```

```
sudo apt update -y
```

```
sudo apt-get install jenkins -y
```

Step 6:

Access Jenkins through browser:

1. PUBLIC_IPv4_ADDRESS:8080

2. sudo cat <jenkins_default_password_path>

3. Fill **in** user details & Install suggested plugins

Step 7:

Create a job:

1. Add Repository Link **in** Source Code Management
2. Make sure the master branch name is the same as **in** the repository *
3. Add build setup **then** Execute Shell

Commands:

```
cd Simple-Project/  
  
ansible-playbook file.yml
```

Step 8:

Install Docker:

```
sudo apt-get update  
  
sudo apt-get install \  
    ca-certificates \  
    curl \  
    gnupg \  
    lsb-release  
  
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --de  
  
echo \  
    "deb [arch=$(dpkg --print-architecture) signed-by=/usr/share/keyrings/  
    $(lsb_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.l  
  
sudo apt-get update  
  
sudo apt-get install docker-ce docker-ce-cli containerd.io
```

Step 9:

Add Docker to sudo group:

```
sudo groupadd docker
```

```
sudo usermod -aG docker $USER

newgrp docker

sudo chmod 666 /var/run/docker.sock
```

Step 10:

Install Ansible:

```
sudo apt update

sudo apt install ansible -y
```

Step 11:

Run Job on Jenkins:

1. Click on the job from the dashboard
2. Build Now

Step 12:

Once the job run successfully:

Go to your browser: `PUBLIC_IPv4_ADDRESS:5000`