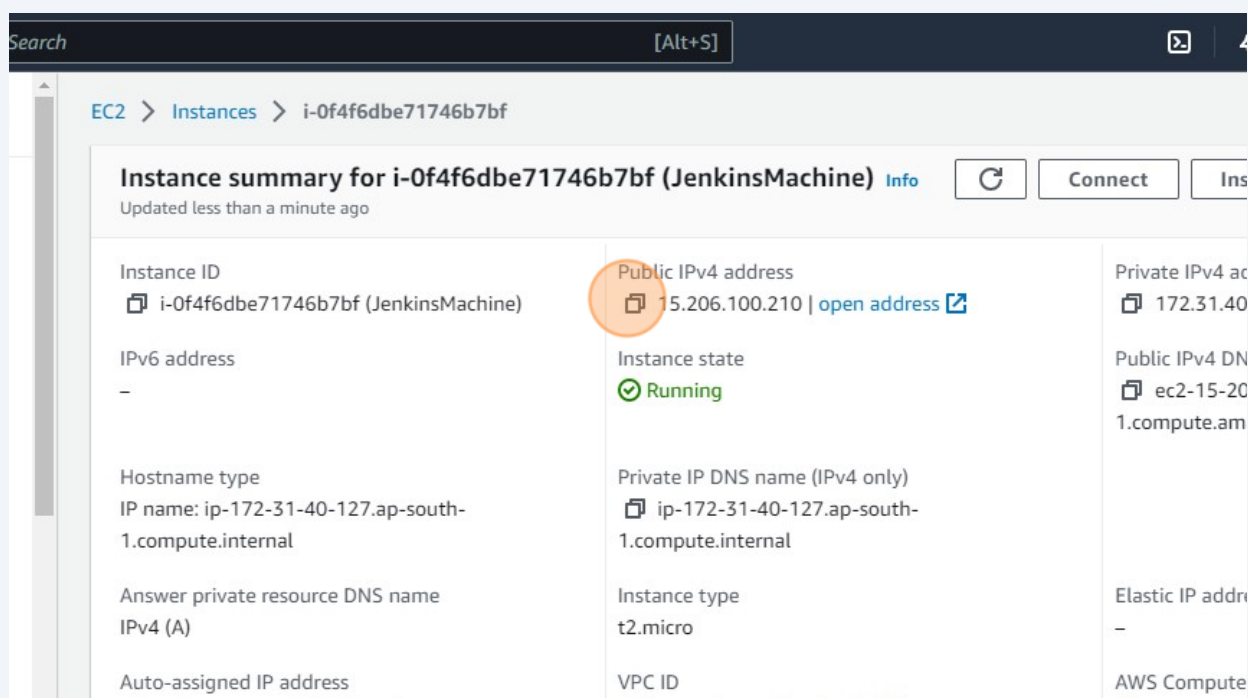


# How to Configure AWS EC2 Instance and Install Jenkins

1 Go to your EC2 Instance Dashboard

2 Jenkins by default will be working on Port 8080. We need allow traffic to that port so we need configure the rule accordingly.

Copy your Public IP Address



The screenshot displays the AWS Management Console interface for an EC2 instance. The breadcrumb navigation shows 'EC2 > Instances > i-0f4f6dbe71746b7bf'. The instance summary for 'i-0f4f6dbe71746b7bf (JenkinsMachine)' is shown, with a status of 'Running'. The 'Public IPv4 address' is highlighted with an orange circle and is '5.206.100.210'. Other visible details include the instance ID, IPv6 address (none), hostname type, private IP address, and instance type 't2.micro'.

Property	Value
Instance ID	i-0f4f6dbe71746b7bf (JenkinsMachine)
Public IPv4 address	5.206.100.210   <a href="#">open address</a>
Private IPv4 address	172.31.40.1
IPv6 address	-
Instance state	Running
Public IPv4 DNS name	ec2-15-206-100-210.compute-1.amazonaws.com
Hostname type	IP name: ip-172-31-40-127.ap-south-1.compute.internal
Private IP DNS name (IPv4 only)	ip-172-31-40-127.ap-south-1.compute.internal
Answer private resource DNS name IPv4 (A)	-
Instance type	t2.micro
Auto-assigned IP address	-
VPC ID	-
Elastic IP address	-
AWS Compute	-

### 3 Go below and Click "Security"

The screenshot shows the AWS Management Console interface. On the left, there is a navigation menu with options like 'EC2 Dashboard', 'EC2 Global View', 'Events', 'Instances', 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', 'Capacity Reservations', 'Images', and 'AMIs'. The 'Instances' section is expanded. The main content area shows the details of an EC2 instance. The 'Security' tab is selected and highlighted with an orange circle. Below the tabs, the 'Instance details' section is visible, showing 'Platform' as 'Ubuntu (Inferred)' and 'Platform details' as 'Linux/UNIX'. The 'Security groups' section is also visible, showing a link to 'sg-049bddfdbd8b477f81 (launch-wizard-47)' which is highlighted with an orange circle. Other details like 'Auto-assigned IP address' (15.206.100.210), 'IAM Role' (None), 'IMDSv2' (Optional), 'VPC ID' (vpc-09b802cfc46fa0f2e), and 'Subnet ID' (subnet-080cd079cfb8f7172) are also visible.

### 4 Click the link just below the security group

The screenshot shows the AWS Management Console interface, specifically the 'Security' tab for an EC2 instance. The 'Inbound rules' section is expanded, showing a table of rules. The first rule is highlighted with an orange circle. The table has columns for 'Name', 'Security group rule ID', and 'Port range'. The rule shown is named 'sg-049bddfdbd8b477f81 (launch-wizard-47)' with a rule ID of 'sgr-06bf1c88be8ff5f5c' and a port range of '22'. The 'Filter rules' search bar is also visible at the top of the table.

Name	Security group rule ID	Port range
sg-049bddfdbd8b477f81 (launch-wizard-47)	sgr-06bf1c88be8ff5f5c	22

## 5 Click "Edit inbound rules"

The screenshot shows the AWS IAM console interface. At the top, there are two tabs labeled "1 Permission entry". Below the tabs, there are two sections: "rules" and "Tags". The "rules" section is active, showing a table with one rule. The rule is named "sgr-06bf1c88be8ff5f5c" and has a type of "SSH" and a protocol of "TCP". The "Tags" section is also visible, showing a table with one tag. The "Edit inbound rules" button is highlighted with an orange circle.

Security group rule...	IP version	Type	Protocol
sgr-06bf1c88be8ff5f5c	IPv4	SSH	TCP

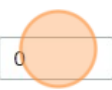
## 6 Click "Add rule"

The screenshot shows the AWS IAM console interface. The "Inbound rules" section is active, showing a table with one rule. The rule is named "sgr-06bf1c88be8ff5f5c" and has a type of "SSH" and a protocol of "TCP". The "Port range" is "22" and the "Source" is "Custom". The "Add rule" button is highlighted with an orange circle.

Security group rule ID	Type	Protocol	Port range	Source
sgr-06bf1c88be8ff5f5c	SSH	TCP	22	Custom

## 7 In the port range add as "8080"


info

Rule ID	Type <a href="#">Info</a>	Protocol <a href="#">Info</a>	Port range <a href="#">Info</a>	Source <a href="#">Info</a>	Description
f5f5c	SSH ▼	TCP	22	Custom ▼ <input data-bbox="1029 548 1173 593" type="text" value="0.0.0.0/0"/>	
	Custom TCP ▼	TCP	0 	Custom ▼ <input type="text" value=""/>	

Cancel

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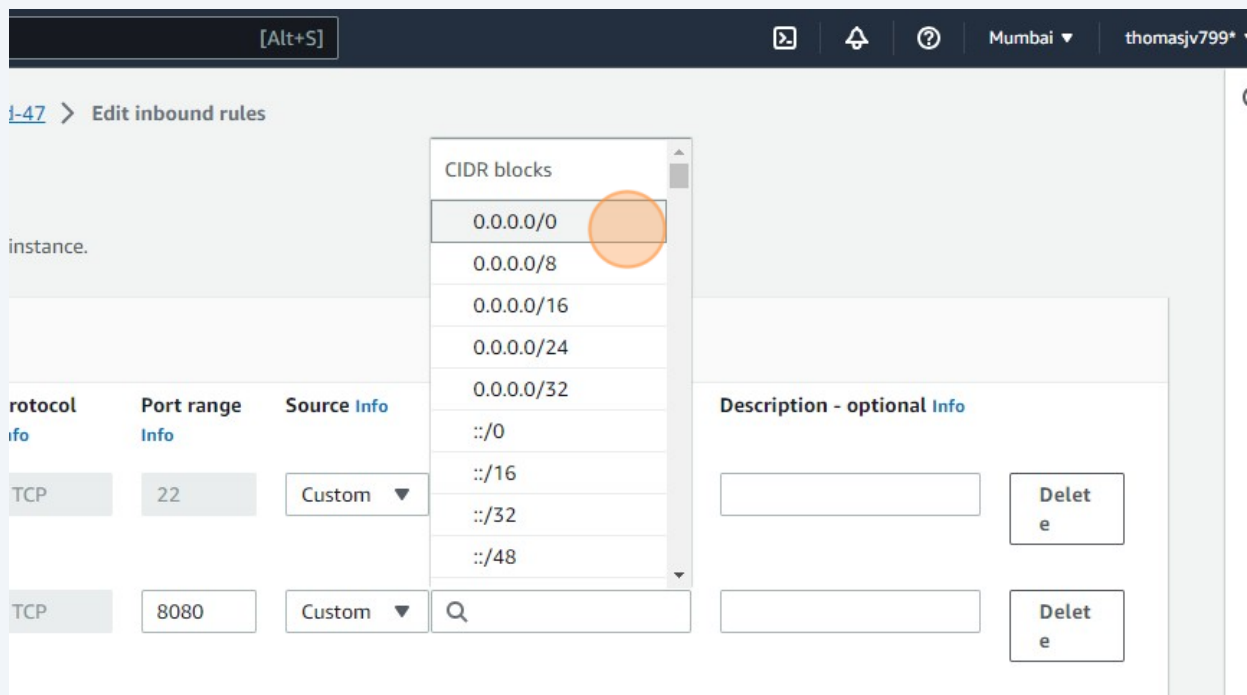
## 8 Click this search field.

Protocol <a href="#">Info</a>	Port range <a href="#">Info</a>	Source <a href="#">Info</a>	Description - optional <a href="#">Info</a>
TCP	22	Custom ▼ <input data-bbox="630 1467 774 1512" type="text" value="0.0.0.0/0"/>	<input type="text" value=""/> <input type="button" value="Delete"/>
TCP	8080 	Custom ▼ <input type="text" value=""/>	<input type="text" value=""/> <input type="button" value="Delete"/>

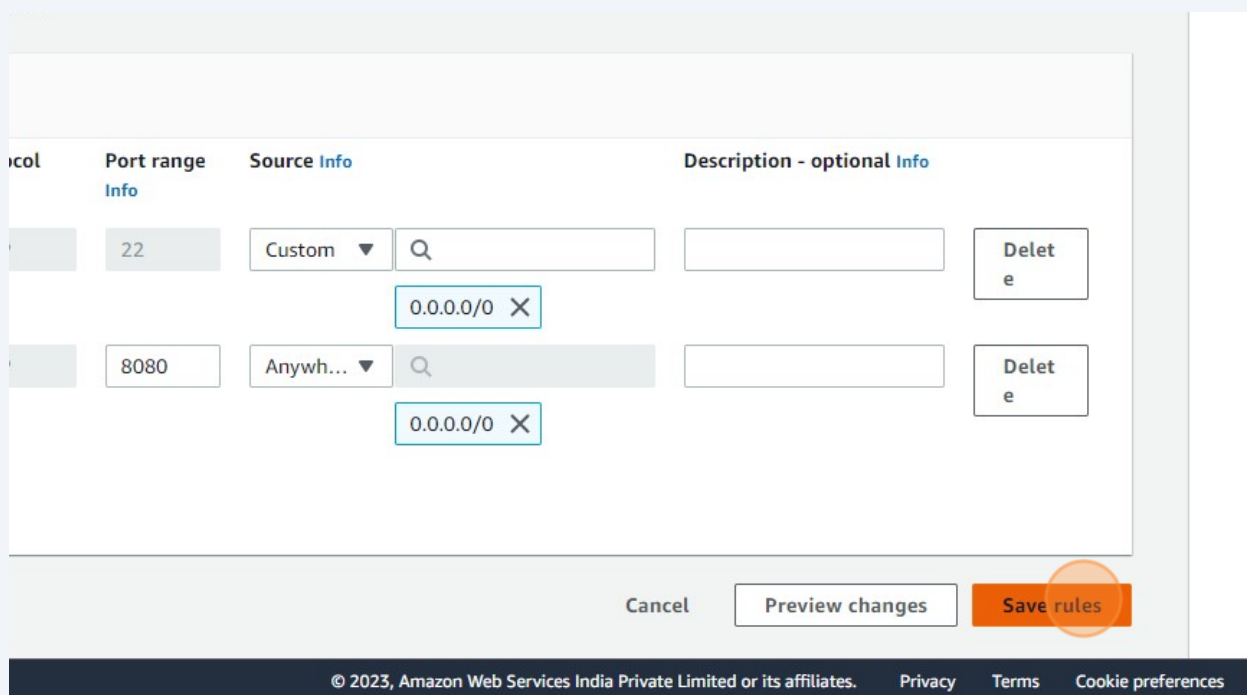
Cancel

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9 Click here.



10 Click "Save rules"

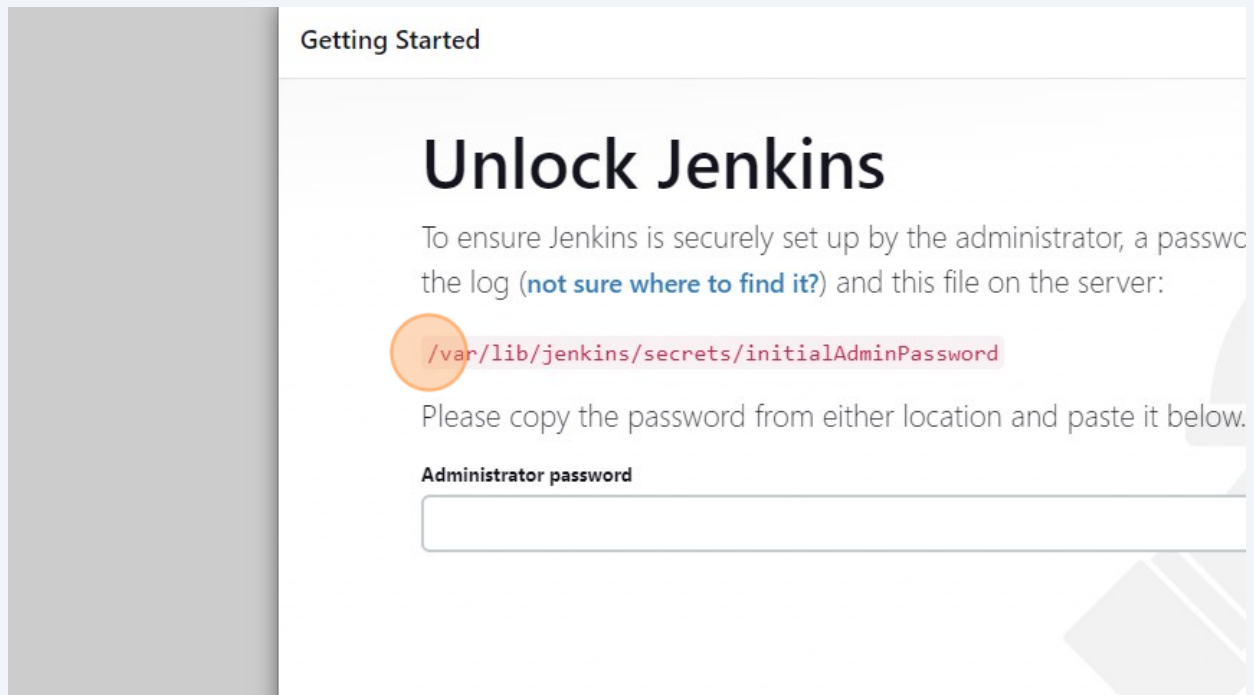


11

In a new tab, navigate to "<Your IP Address>:8080;", for example if your IP is 15.206.100.210, then enter 15.206.100.210:8080. If Jenkins is installed properly then it will take you to the Getting Started page of Jenkins.

12

copy `/var/lib/jenkins/secrets/initialAdminPassword` and go to the terminal of your EC2 Machine where Jenkins is installed, there use `sudo cat /var/lib/jenkins/secrets/initialAdminPassword` to read the password



**13** Once you paste the password, click on continue

ely set up by the administrator, a password has been written to  
**find it?)** and this file on the server:

`/initialAdminPassword`

d from either location and paste it below.

Continue

**14** On the next page, Click "Install suggested plugins". This will install all the necessary plugins, it will take a few minutes to install everything.

## CUSTOMIZE JENKINS

Plugins extend Jenkins with additional features to support many d

### Install suggested plugins

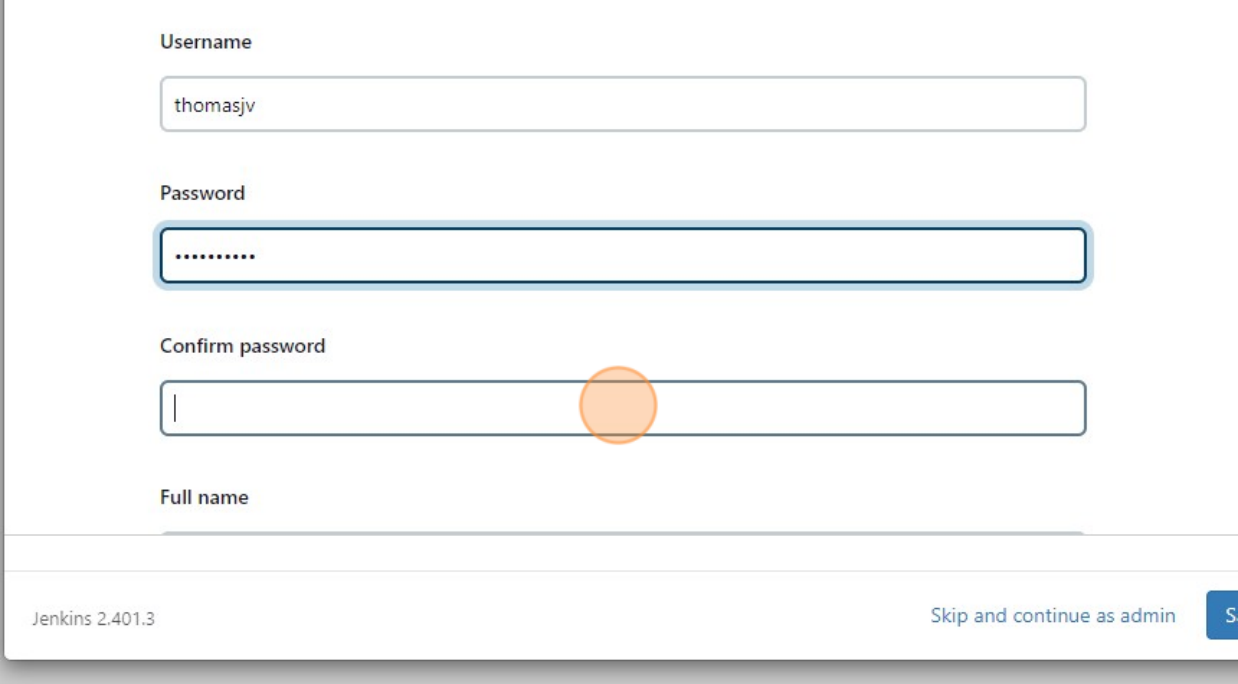
Install plugins the Jenkins community finds most useful.

### Select plugins to install

Select and install plugin suitable for your needs.

Jenkins 2.401.3

**15** On the next page, fill in all the details and click "Save and Continue"



A screenshot of the Jenkins user creation form. It contains four input fields: 'Username' with the value 'thomasjv', 'Password' with masked characters '.....', 'Confirm password' which is empty, and 'Full name' which is empty. An orange circle highlights the 'Confirm password' field. At the bottom, there is a footer with 'Jenkins 2.401.3' on the left, 'Skip and continue as admin' in the center, and a blue button with a white 'S' on the right.

Username

thomasjv

Password

.....

Confirm password

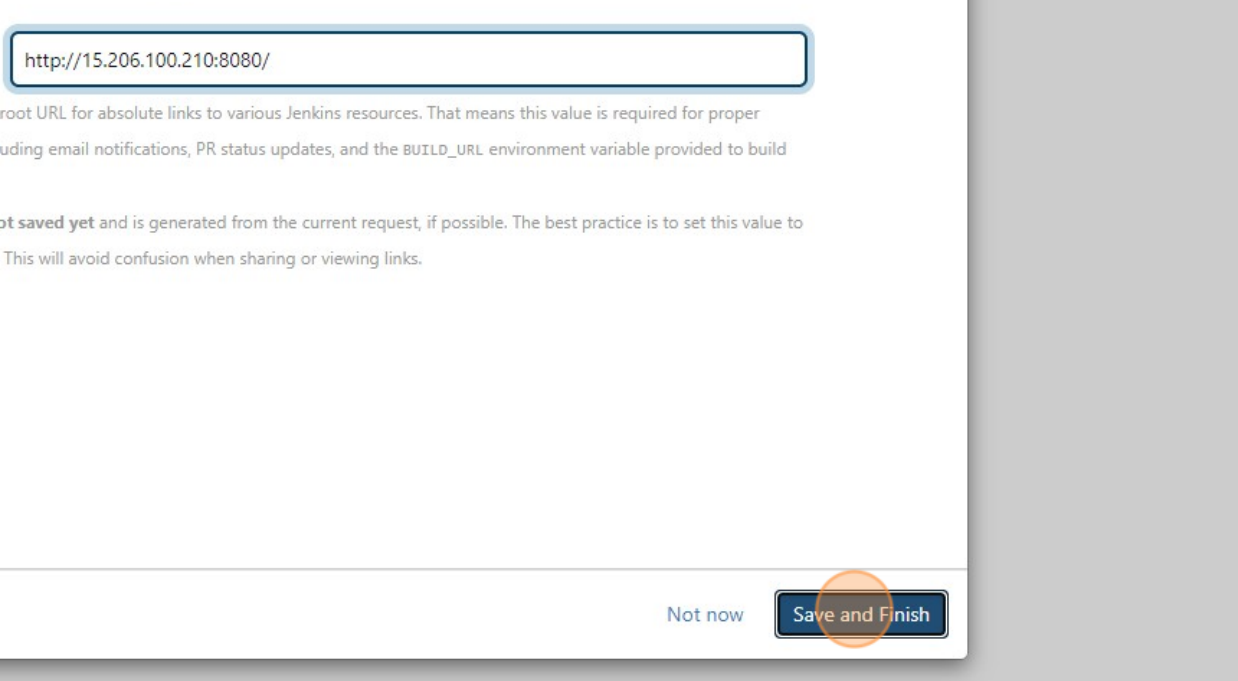
Full name

Jenkins 2.401.3

Skip and continue as admin

S

**16** Click "Save and Finish"



A screenshot of the Jenkins configuration page. At the top, there is a text input field containing 'http://15.206.100.210:8080/'. Below this, there is explanatory text about the root URL. At the bottom, there are two buttons: 'Not now' and 'Save and Finish'. An orange circle highlights the 'Save and Finish' button.

http://15.206.100.210:8080/

root URL for absolute links to various Jenkins resources. That means this value is required for proper  
uding email notifications, PR status updates, and the BUILD\_URL environment variable provided to build

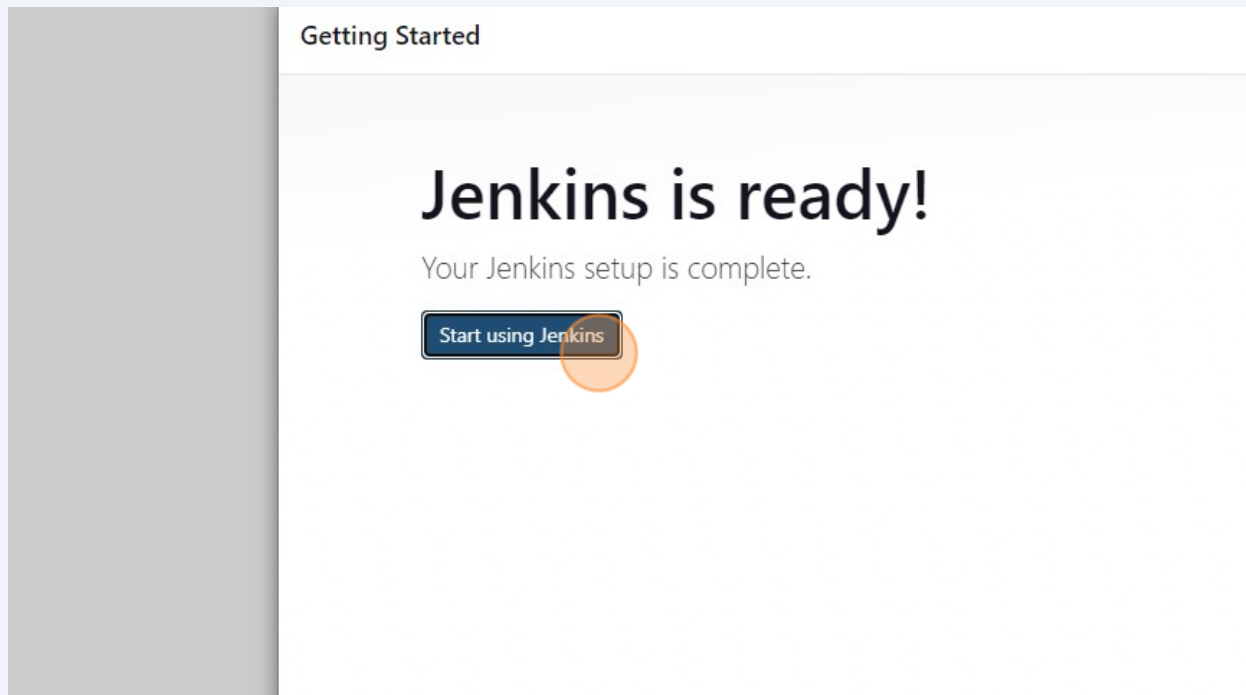
ot saved yet and is generated from the current request, if possible. The best practice is to set this value to  
This will avoid confusion when sharing or viewing links.

Not now

Save and Finish



**17** Click "Start using Jenkins"



**18** Finally you will be taken to the Jenkins Dashboard