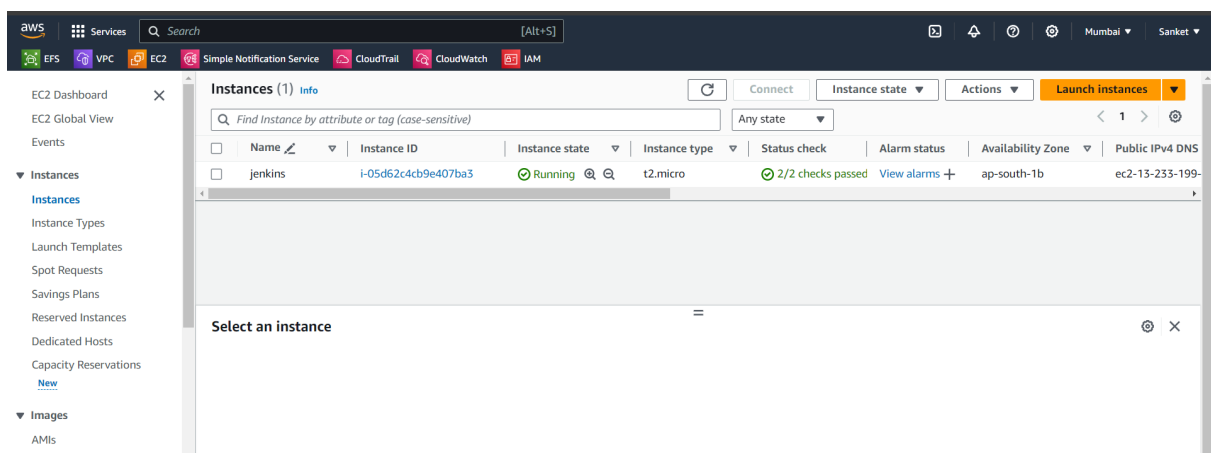


## Jenkins Assignment

Owner	Sanket Chaudhari
Tags	Guides and Processes

**Assignment - Setup jenkins and automate the deployment using httpd host a webpage and access using public IP**

✓ **First Launch Ec2-instance :**



**Installation Steps :**

- Install **Java** Latest Version `yum install java Corretto-11.0.22.7.1`

- Create Folder called **server** - /mnt/server  
Download apache-tomcat-9.0.85 Using

**Wget <https://dlcdn.apache.org/tomcat/tomcat-9/v9.0.85/bin/apache-tomcat-9.0.85.zip>**

- **Unzip** the downloaded file and delete that zip file
- Give **permission** to **tomcat** folder **chmod -R 777 apache-tomcat-9.0.85**
- Now Install **Jenkins War** in **apache-tomcat-9.0.85/webapps**
- Go to **Jenkins.io** select latest version and copy link address
  - Run **Wget <https://get.jenkins.io/war-stable/2.426.3/jenkins.war>** in webapps
- go to **bin** folder and run the ./startup.sh script and server will start.
- you can also **check log** by going to log folder- **tail -100f catalina.out**
- Now access the jenkins by using public ip with /jenkins - **<http://13.233.199.241:8080/jenkins/>**
- **make sure you add port no 8080 in security group**
- Now setup jenkins with further steps unlock jenkins - initailpassword
  - **unlock jenkins - initailpassword**
  - **Install Plugins**
  - **Create First Admin user**
  - **instance configuration**
  - **Done you redirect to Jenkins Dashboard**

## ✓ Jenkins Dashboard :

Dashboard >

+ New Item

People

Build History

Manage Jenkins

My Views

**Build Queue** ▾

No builds in the queue.

**Build Executor Status** ▾

1 Idle

2 Idle

this is my first build

Edit description

S	W	Name	Last Success	Last Failure	Last Duration
...	☀	assignment	N/A	N/A	N/A
⊗	☀	firstjob	1 hr 58 min #3	1 hr 42 min #4	72 ms

Icon: S M L

Icon legend

Atom feed for all

Atom feed for failures

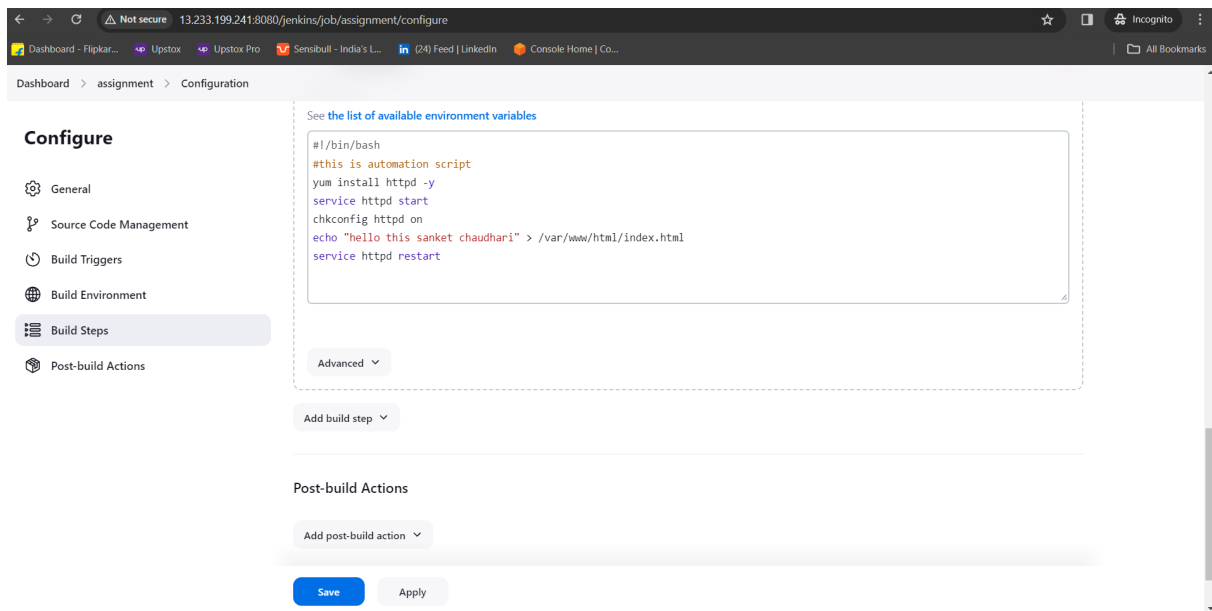
Atom feed for just latest builds

REST API

Jenkins 2.426.3

Jenkins dashboard here you can see all jobs

✓ So here I created freestyle job :



```
#!/bin/bash
#this is automation script
yum install httpd -y
service httpd start
chkconfig httpd on
echo "hello this sanket chaudhari" > /var/www/html/index.html
```


✓ Jenkins Home Backend :






```
root@ip-172-31-6-28:~/jenkins/workspace
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help

[1 root@ip-172-31-6-28:~/jenkins/work x
[root@ip-172-31-6-28 workspace]# ll
total 0
drwxr-x--- 3 root root 20 Feb 17 07:53 1st job
drwxr-x--- 2 root root 6 Feb 17 09:32 assignment
drwxr-x--- 3 root root 20 Feb 17 07:59 firstjob
[root@ip-172-31-6-28 workspace]# cd ..
[root@ip-172-31-6-28 .jenkins]# ll
total 56
-rw-r----- 1 root root 1723 Feb 17 07:53 config.xml
-rw-r----- 1 root root 156 Feb 17 07:29 hudson.model.UpdateCenter.xml
-rw-r----- 1 root root 370 Feb 17 07:33 hudson.plugins.git.GitTool.xml
-rw-r----- 1 root root 1680 Feb 17 07:33 identity.key.enc
-rw-r----- 1 root root 7 Feb 17 07:34 jenkins.install.InstallUtil.lastExecVersion
-rw-r----- 1 root root 7 Feb 17 07:34 jenkins.install.UpgradeWizard.state
-rw-r----- 1 root root 192 Feb 17 07:34 jenkins.model.JenkinsLocationConfiguration.xml
-rw-r----- 1 root root 171 Feb 17 07:29 jenkins.telemetry.Correlator.xml
drwxr-x--- 4 root root 40 Feb 17 09:31 jobs
drwxr-x--- 3 root root 19 Feb 17 08:11 logs
-rw-r----- 1 root root 907 Feb 17 07:29 nodeMonitors.xml
drwxr-x--- 2 root root 6 Feb 17 07:29 nodes
drwxr-x--- 86 root root 8192 Feb 17 07:33 plugins
-rw-r----- 1 root root 130 Feb 17 09:33 queue.xml
-rw-r----- 1 root root 64 Feb 17 07:28 secret.key
-rw-r----- 1 root root 0 Feb 17 07:28 secret.key.not-so-secret
drwx----- 2 root root 295 Feb 17 07:55 secrets
drwxr-x--- 2 root root 149 Feb 17 07:33 updates
drwxr-x--- 2 root root 24 Feb 17 07:29 userContent
drwxr-x--- 3 root root 58 Feb 17 07:34 users
drwxr-x--- 5 root root 55 Feb 17 10:12 workspace
[root@ip-172-31-6-28 .jenkins]# cd workspace
[root@ip-172-31-6-28 workspace]# ll
total 0
drwxr-x--- 3 root root 20 Feb 17 07:53 1st job
drwxr-x--- 2 root root 6 Feb 17 09:32 assignment
drwxr-x--- 3 root root 20 Feb 17 07:59 firstjob
[root@ip-172-31-6-28 workspace]#
```


## ✓ Jenkins Build Console Output :


After Build Progress


 **Jenkins**


Search (CTRL+K)     sanket chaudhari  log out


Dashboard > assignment > #2 > Console Output


 Status

 Changes

 Console Output

 View as plain text

 Edit Build Information

 Delete build '#2'

✓ Console Output

Started by user sanket chaudhari  
Running as SYSTEM  
Building in workspace /root/.jenkins/workspace/assignment  
[assignment] \$ /bin/bash /mnt/server/apache-tomcat-9.0.85/temp/jenkins8087954860648932613.sh  
Loaded plugins: extras\_suggestions, langpacks, priorities, update-motd  
Resolving Dependencies  
--> Running transaction check  
--> Package httpd.x86\_64 0:2.4.58-1.amzn2 will be installed  
--> Processing Dependency: mod\_http2 for package: httpd-2.4.58-1.amzn2.x86\_64  
--> Running transaction check  
--> Package mod\_http2.x86\_64 0:1.15.19-1.amzn2.0.1 will be installed  
--> Finished Dependency Resolution  
  
Dependencies Resolved  
  
=====

Package	Arch	Version	Repository	Size
Installing:				
httpd	x86_64	2.4.58-1.amzn2	amzn2-core	1.4 M
Installing for dependencies:				

Dashboard > assignment >

Status

</> Changes

Workspace

Build Now

Configure

Delete Project

Rename

assignment

Automate the deployment process

Permalinks

- Last build (#2), 1 min 36 sec ago
- Last stable build (#2), 1 min 36 sec ago
- Last successful build (#2), 1 min 36 sec ago
- Last completed build (#2), 1 min 36 sec ago

Build History

trend

Filter builds...

#2

Feb 17, 2024, 10:15 AM

Atom feed for all

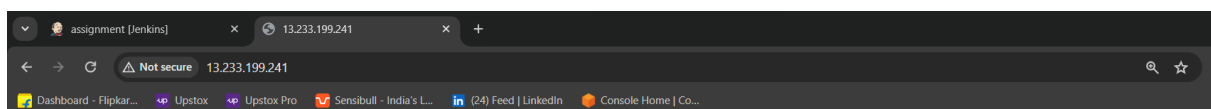
Atom feed for failures

You can see build history

## ✓ Httpd Folders And Index.html File In Backend :

```
root@ip-172-31-6-28:/var/www/html
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
1. root@ip-172-31-6-28:/var/www/html
[root@ip-172-31-6-28 assignment]#
[root@ip-172-31-6-28 assignment]#
[root@ip-172-31-6-28 assignment]#
[root@ip-172-31-6-28 html]# cd /var/www/html/
[root@ip-172-31-6-28 html]# ll
total 4
-rwxr--r-- 1 root root 28 Feb 17 10:15 index.html
[root@ip-172-31-6-28 html]# cat index.html
hello this sanket chaudhari
[root@ip-172-31-6-28 html]#
```

## ✓ Here Is the Output :



hello this sanket chaudhari

<http://13.233.199.241/>

## ✓ Add Http Port 80 In security Group :

### Edit inbound rules [Info](#)

Inbound rules control the incoming traffic that's allowed to reach the instance.

#### Inbound rules [Info](#)

Security group rule ID	Type <a href="#">Info</a>	Protocol <a href="#">Info</a>	Port range <a href="#">Info</a>	Source <a href="#">Info</a>	Description - optional <a href="#">Info</a>	
sgr-047860e0613f78244	HTTP ▼	TCP	80	Custom ▼	<input type="text" value="Q"/> <input data-bbox="911 591 995 620" type="text" value="0.0.0.0/0"/>	<input type="text"/> <input type="button" value="Delete"/>
sgr-090b8b215614aa509	SSH ▼	TCP	22	Custom ▼	<input type="text" value="Q"/> <input data-bbox="911 674 995 703" type="text" value="0.0.0.0/0"/>	<input type="text"/> <input type="button" value="Delete"/>
sgr-0e3b7f31419029dfc	Custom TCP ▼	TCP	8080	Custom ▼	<input type="text" value="Q"/> <input data-bbox="911 757 995 786" type="text" value="0.0.0.0/0"/>	<input type="text"/> <input type="button" value="Delete"/>