ASSIGNMENT - 1

You have to create a simple job, you have to install apache httpd server and have to install index.html page on apache, using jenkins. and website should be up after running job.

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Prerequisite

First step : - install java open jdk 11 on machine

      amazon-linux-extras install java-openjdk11 -y

Second step : - install apache tomcat version 9.0

      wget https://dlcdn.apache.org/tomcat/tomcat-9/v9.0.82/bin/apache-tomcat-9.0.82.zip

      unzip apache-tomcat-9.0.82.zip

      chmod +R 777 apache-tomcat-9.0.82

Third step : - install jenkins (war file) : -

      wget https://get.jenkins.io/war-stable/2.414.3/jenkins.war

Some steps we have to do to get jenkins admin panel

1.   Put jenkins.war in /apache-tomcat-9.0.82/webapps

2.   Start the apache server : -

   Go to   /apache-tomcat-9.0.82/bin
   Run command   ./startup.sh

3.   Hit public_url_of_instance:8080/jenkins for open jenkins admin panel

Now will u connect to jenkins admin panel

Getting Started

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log (**not sure where to find it?**) and this file on the server:

`/root/.jenkins/secrets/initialAdminPassword`

Please copy the password from either location and paste it below.

Administrator password

Continue

To get password, simply run command and pest password in textbox

cat `/root/.jenkins/secrets/initialAdminPassword`

Customize Jenkins

Plugins extend Jenkins with additional features to support many different needs.

Install suggested plugins

Install plugins the Jenkins community finds most useful.

Select plugins to install

Select and install plugins most suitable for your needs.

Click on install suggested plugins

Getting Started

Username

shubham

Password

•••••••

Confirm password

•••••••

Full name

shubhamtapkir

E-mail address

shubhamtapkir29@gmail.com

Skip and continue as admin   Save and Continue

Fill the info and click on save and continue

Instance Configuration

Jenkins URL:

http://15.206.127.160:8080/jenkins/

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 2.414.3   Not now   Save and F

Fill the info and click on save and continue

Getting Started

Jenkins is ready!

Your Jenkins setup is complete.

Start using Jenkins

Jenkins

Search (⌘+K)

shubhamtapkir

log out

+ New Item

People

Build History

Manage Jenkins

My Views

Build Queue

No builds in the queue.

Build Executor Status

1 Idle

2 Idle

Add description

Welcome to 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   🔗

Click on new item

Fill required fill
Click on freestyle project
Click on ok

Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps
- Post-build Actions

General

Enabled ◉

Description

this is first project

Plain text **Preview**

☑ Discard old builds ?

Strategy

Log Rotation ⌄

Days to keep builds

if not empty, build records are only kept up to this number of days

1

Max # of builds to keep

if not empty, only up to this number of build records are kept

5

Save   Apply

Fill details

Configure

- ⚙️ General
- ⑂ Source Code Management
- 🕒 Build Triggers
- 🌐 **Build Environment**
- ▤ Build Steps
- 📦 Post-build Actions

☐ Delete workspace before build starts

☐ Use secret text(s) or file(s)   ?

☐ Add timestamps to the Console Output

☐ Inspect build log for published build scans

☐ Terminate a build if it's stuck

☐ With Ant   ?

Build Steps

Add build step ▲

Filter

Execute Windows batch command

Execute shell

Invoke Ant

Invoke Gradle script

Invoke top-level Maven targets

Run with timeout

Set build status to "pending" on GitHub commit

Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- **Build Steps**
- Post-build Actions

Build Steps

≡ **Execute shell** ?

Command

See the list of available environment variables

```
sudo yum install httpd -y
echo "<marquee><h1>Jenkins Practical</h1></marquee>
" >> /var/www/html/index.html
chmod 777 /var/www/html/index.html
sudo service httpd start
```

Advanced ⌄

Add build step ⌄

Post-build Actions

Add post-build action ⌄

Save   Apply

```
sudo yum install httpd -y

echo "<marquee><h1>Jenkins

Practical</h1></marquee>
" >> /var/www/html/index.html

chmod 777 /var/www/html/index.html

sudo service httpd start

sudo service httpd status
```

Jenkins

Q Search (⌘+K)

📄 **Status**

</> Changes

📁 Workspace

▷ **Build Now**

⚙ Configure

🗑 Delete Project

✏ Rename

Project first_job

this is first project

Permalinks

☀ **Build History** **trend** ⌄

Q Filter builds... /

⊘ **#1**
| Nov 7, 2023, 11:13 AM

Jenkins Practical

Hit the public url