

# Jenkins assignment 1

Build job in which install httpd and deploy the index.html

```
1. root@ip-172-31-12-89 ~ /server
[root@ip-172-31-12-89 ~]# mkdir server
[root@ip-172-31-12-89 ~]# cd server
[root@ip-172-31-12-89 server]# wget https://dlcdn.apache.org/tomcat/tomcat-10/v10.1.40/bin/apache-tomcat-10.1.40.zip
--2025-04-29 08:16:40-- https://dlcdn.apache.org/tomcat/tomcat-10/v10.1.40/bin/apache-tomcat-10.1.40.zip
Resolving dlcdn.apache.org (dlcdn.apache.org)... 151.101.2.132, 2a04:4e42::644
Connecting to dlcdn.apache.org (dlcdn.apache.org)|151.101.2.132|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 14420142 (14M) [application/zip]
Saving to: 'apache-tomcat-10.1.40.zip'

100%[=====] 14,420,142 --K/s in 0.1s

2025-04-29 08:16:42 (94.4 MB/s) - 'apache-tomcat-10.1.40.zip' saved [14420142/14420142]

[root@ip-172-31-12-89 server]# unzip apache-tomcat-10.1.40.zip
Archive:  apache-tomcat-10.1.40.zip
  creating: apache-tomcat-10.1.40/
  creating: apache-tomcat-10.1.40/bin/
  creating: apache-tomcat-10.1.40/conf/
  creating: apache-tomcat-10.1.40/lib/
  creating: apache-tomcat-10.1.40/logs/
  creating: apache-tomcat-10.1.40/temp/
  creating: apache-tomcat-10.1.40/webapps/
  creating: apache-tomcat-10.1.40/webapps/ROOT/
  creating: apache-tomcat-10.1.40/webapps/ROOT/WEB-INF/
  creating: apache-tomcat-10.1.40/webapps/docs/
  creating: apache-tomcat-10.1.40/webapps/docs/META-INF/
  creating: apache-tomcat-10.1.40/webapps/docs/WEB-INF/
  creating: apache-tomcat-10.1.40/webapps/docs/WEB-INF/jsp/
  creating: apache-tomcat-10.1.40/webapps/docs/annotationapi/
  creating: apache-tomcat-10.1.40/webapps/docs/api/
  creating: apache-tomcat-10.1.40/webapps/docs/appdev/
  creating: apache-tomcat-10.1.40/webapps/docs/appdev/sample/
  creating: apache-tomcat-10.1.40/webapps/docs/appdev/sample/docs/
  creating: apache-tomcat-10.1.40/webapps/docs/appdev/sample/src/
  creating: apache-tomcat-10.1.40/webapps/docs/appdev/sample/src/mypackage/
  creating: apache-tomcat-10.1.40/webapps/docs/appdev/sample/web/
  creating: apache-tomcat-10.1.40/webapps/docs/appdev/sample/web/WEB-INF/
  creating: apache-tomcat-10.1.40/webapps/docs/appdev/sample/web/images/
  creating: apache-tomcat-10.1.40/webapps/docs/architecture/
  creating: apache-tomcat-10.1.40/webapps/docs/architecture/requestProcess/
```

Install tomcat

```
[root@ip-172-31-12-89 server]# rm -rf apache-tomcat-10.1.40.zip
[root@ip-172-31-12-89 server]# cd apache-tomcat-10.1.40
[root@ip-172-31-12-89 apache-tomcat-10.1.40]# ls
bin BUILDING.txt conf CONTRIBUTING.md lib LICENSE logs NOTICE README.md RELEASE-NOTES RUNNING.txt temp webapps work
[root@ip-172-31-12-89 apache-tomcat-10.1.40]# cd webapps
[root@ip-172-31-12-89 webapps]# ls
docs examples host-manager manager ROOT
[root@ip-172-31-12-89 webapps]# wget https://get.jenkins.io/war-stable/latest/jenkins.war
--2025-04-29 08:21:43-- https://get.jenkins.io/war-stable/latest/jenkins.war
Resolving get.jenkins.io (get.jenkins.io)... 20.7.178.24, 2603:1030:408:5:15a
Connecting to get.jenkins.io (get.jenkins.io)|20.7.178.24|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://archives.jenkins.io/war-stable/latest/jenkins.war [following]
--2025-04-29 08:21:44-- https://archives.jenkins.io/war-stable/latest/jenkins.war
Resolving archives.jenkins.io (archives.jenkins.io)... 46.101.121.132, 2a03:b0c0:3:d0::9bc:d001
Connecting to archives.jenkins.io (archives.jenkins.io)|46.101.121.132|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 96690342 (92M)
Saving to: 'jenkins.war'

100%[=====] 96,690,342 5.73MB/s in 19s

2025-04-29 08:22:04 (4.75 MB/s) - 'jenkins.war' saved [96690342/96690342]

[root@ip-172-31-12-89 webapps]# ls -ltr
total 94432
drwxr-xr-x 3 root root 223 Apr 1 17:20 ROOT
drwxr-xr-x 6 root root 114 Apr 1 17:20 manager
drwxr-xr-x 6 root root 79 Apr 1 17:20 host-manager
drwxr-xr-x 7 root root 99 Apr 1 17:20 examples
drwxr-xr-x 16 root root 4096 Apr 1 17:20 docs
-rw-r--r-- 1 root root 96690342 Apr 2 11:29 jenkins.war
[root@ip-172-31-12-89 webapps]# cd ../
```

Download Jenkins war file and run

## New Item

Enter an item name

first job

Select an item type



### Freestyle project

Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.



### Pipeline

Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.



### Multi-configuration project

Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.



### Folder

Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different

OK

## Create job

### Configure

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

### Build Steps

Automate your build process with ordered tasks like code compilation, testing, and deployment.

#### Execute shell ?

Command

See [the list of available environment variables](#)

```
yum install httpd -y
systemctl start httpd
systemctl enable httpd
cd /var/www/html
echo "this is jenkins first assignment " >> index.html
```

Advanced ▾

Add build step ▾

### Post-build Actions

Perform what happens after a build completes. Like sending notifications, archiving artifacts, or triggering other jobs.

Save

Apply

## Write script

**Jenkins** 🔍 🔔 🛡️ 1 👤 pooja 📄 log out

Dashboard > first job > #2 > Console Output

Status

</> Changes

**Console Output**

Edit Build Information

Delete build '#2'

Timings

✓ Console Output

Download

Copy

View as plain text

Started by user [pooja](#)  
Running as SYSTEM  
Building in workspace /root/.jenkins/workspace/first job  
[first job] \$ /bin/sh -xe /root/runner/apache-tomcat-10.1.40/temp/jenkins14536133227377055798.sh  
+ yum install httpd -y  
Loaded plugins: extras\_suggestions, langpacks, priorities, update-motd  
Package httpd-2.4.62-1.amzn2.0.2.x86\_64 already installed and latest version  
Nothing to do  
+ systemctl start httpd  
+ systemctl enable httpd  
Created symlink from /etc/systemd/system/multi-user.target.wants/httpd.service to /usr/lib/systemd/system/httpd.service.  
+ cd /var/www/html  
+ echo 'this is jenkins first assignment '  
Finished: SUCCESS

first build success

```
[ec2-user@ip-172-31-4-236 ~]$ sudo -i
[root@ip-172-31-4-236 ~]# ls
server
[root@ip-172-31-4-236 ~]# cd .jenkins
[root@ip-172-31-4-236 .jenkins]# ls
config.xml      jenkins.install.InstallUtil.lastExecVersion  jobs      queue.xml      updates
jenkins.install.UpgradeWizard.state          logs      secret.key     userContent
jenkins.model.JenkinsLocationConfiguration.xml nodeMonitors.xml  secret.key.not-so-secret  users
jenkins.telemetry.Correlator.xml              plugins      secrets         workspace
[root@ip-172-31-4-236 .jenkins]# cd jobs
[root@ip-172-31-4-236 jobs]# ls
first job
[root@ip-172-31-4-236 jobs]#
```