Hosting a webserver on local host

Prerequisites

Ensure the following are installed and configured **before** creating the Jenkins job:

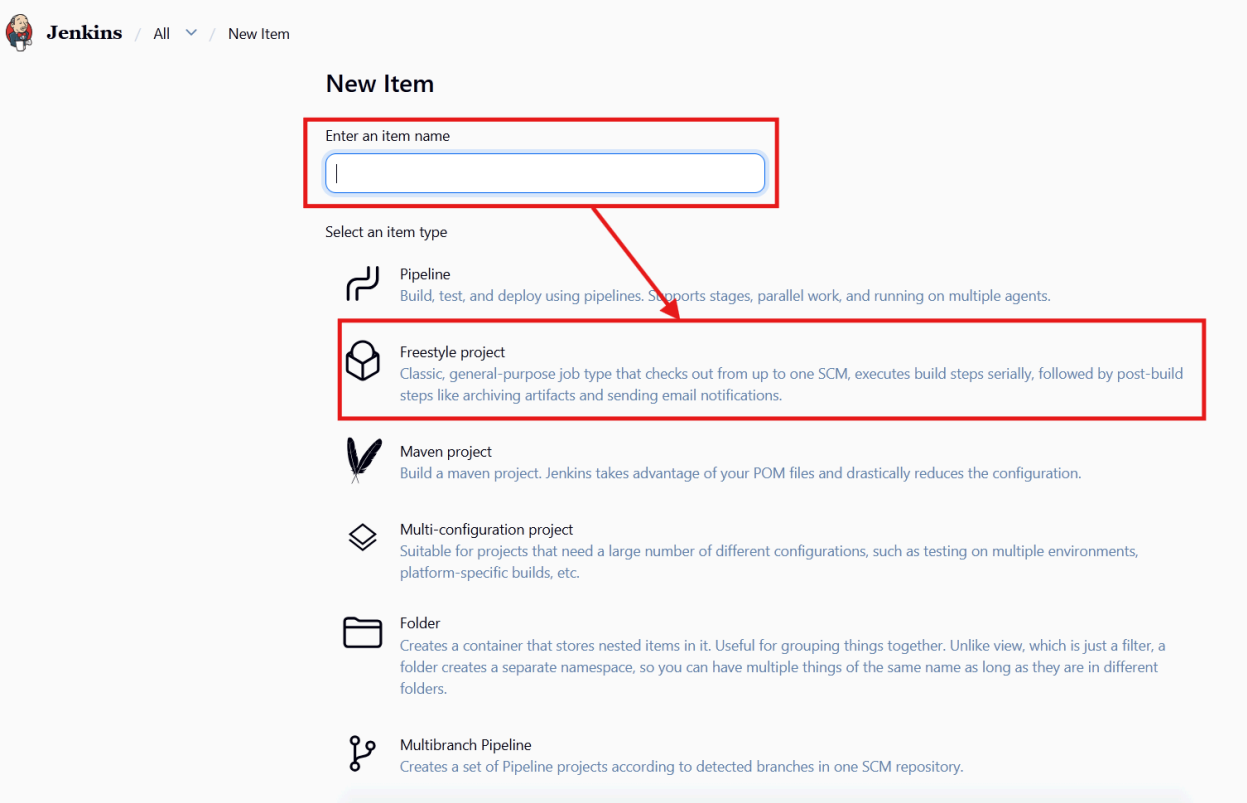
- **JDK** (Java 8 or higher)
- **Maven**
- **Apache Tomcat**
- **Jenkins**
- Jenkins plugins:
  - Git Plugin
  - Maven Integration Plugin

with all the necessary packages, tools and plugins installed,

1. Creating the pipeline foundation

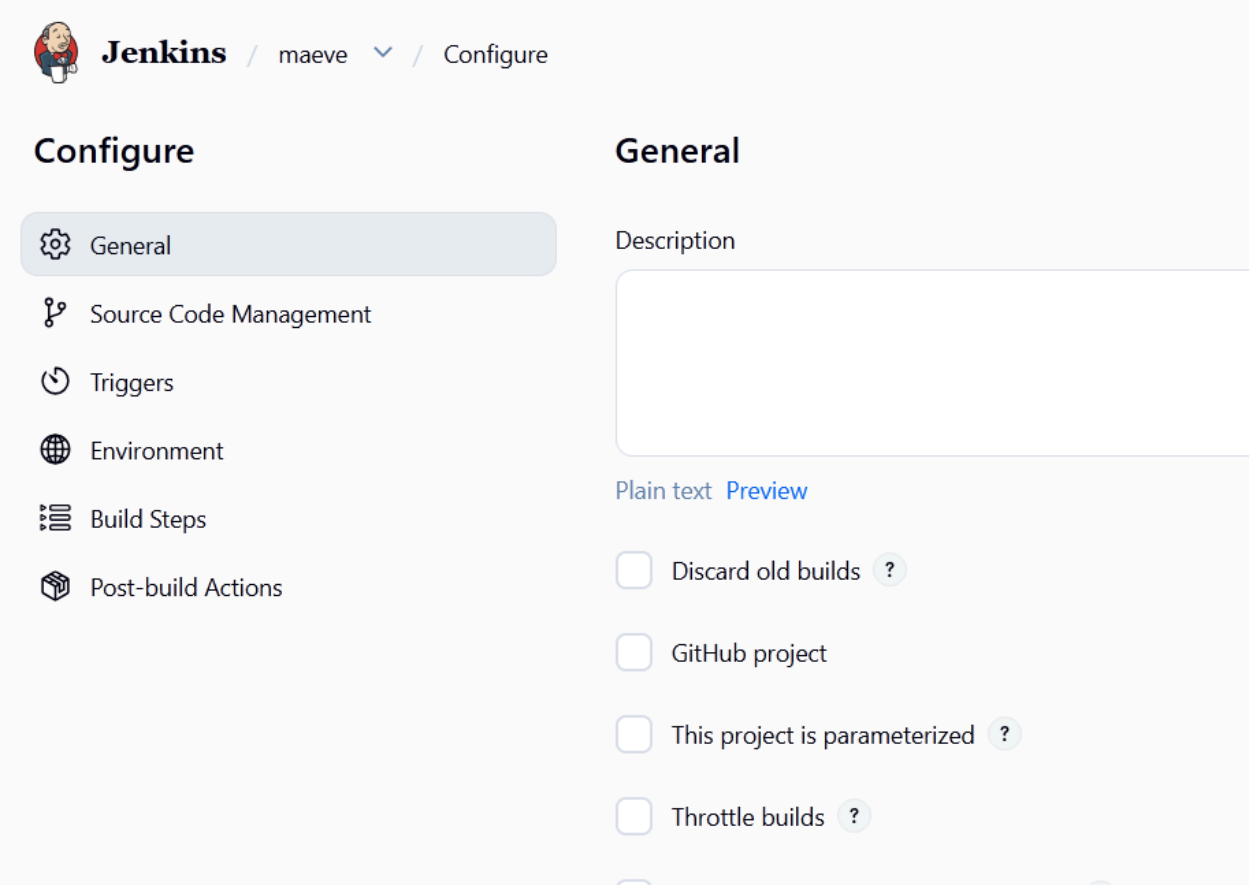
Head too Jenkins home page and click on New Item/ Job

Name the project as required and select Free style project



2. Pipeline

After the creation, we get to see this screen



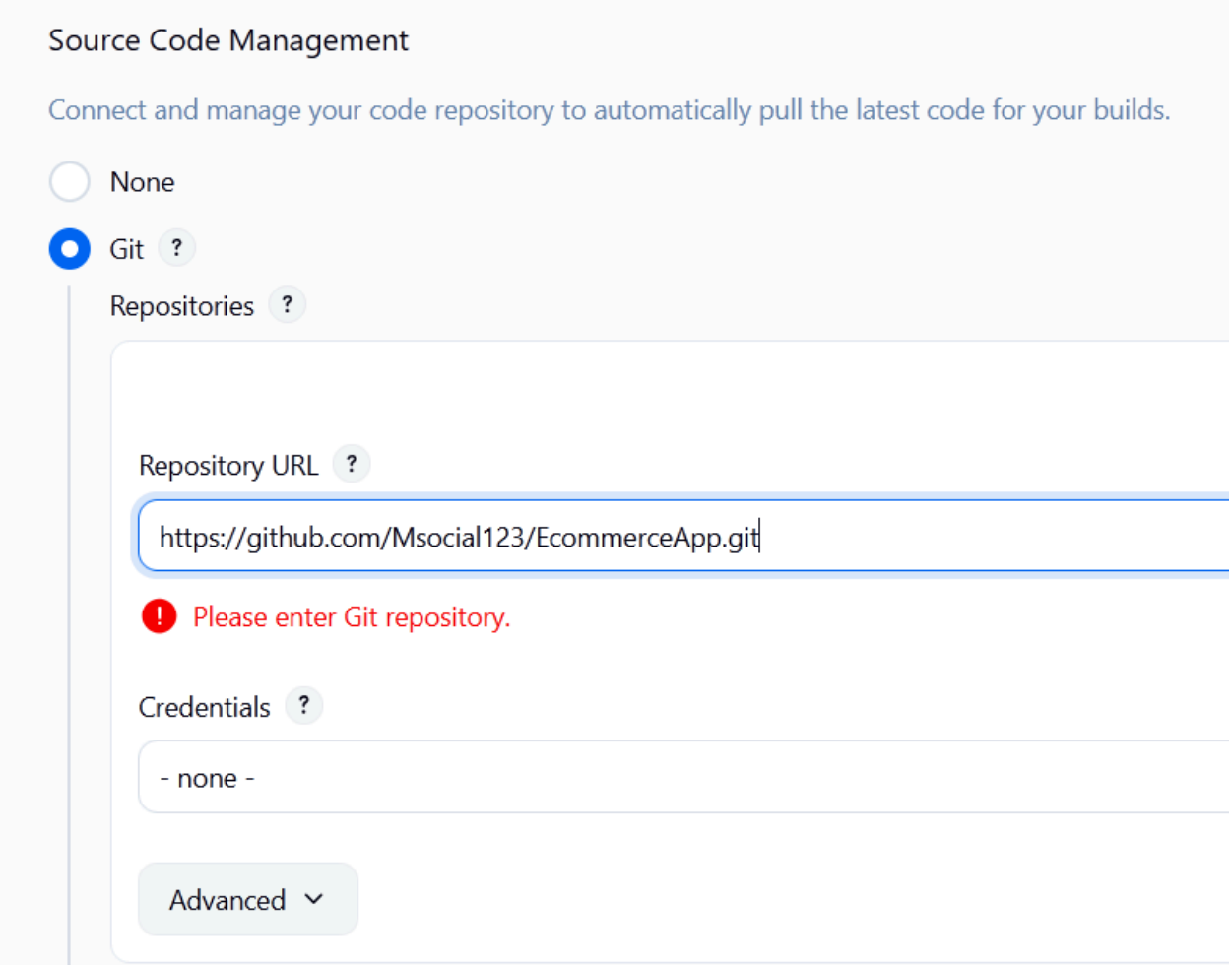
Leave most of it as is and under the—-

Source code management

- We need to link the source code, Let's say we have it in the git repository, link the code here

Credentials

- Leave empty if public repo
- If private: add GitHub username + Personal Access Token



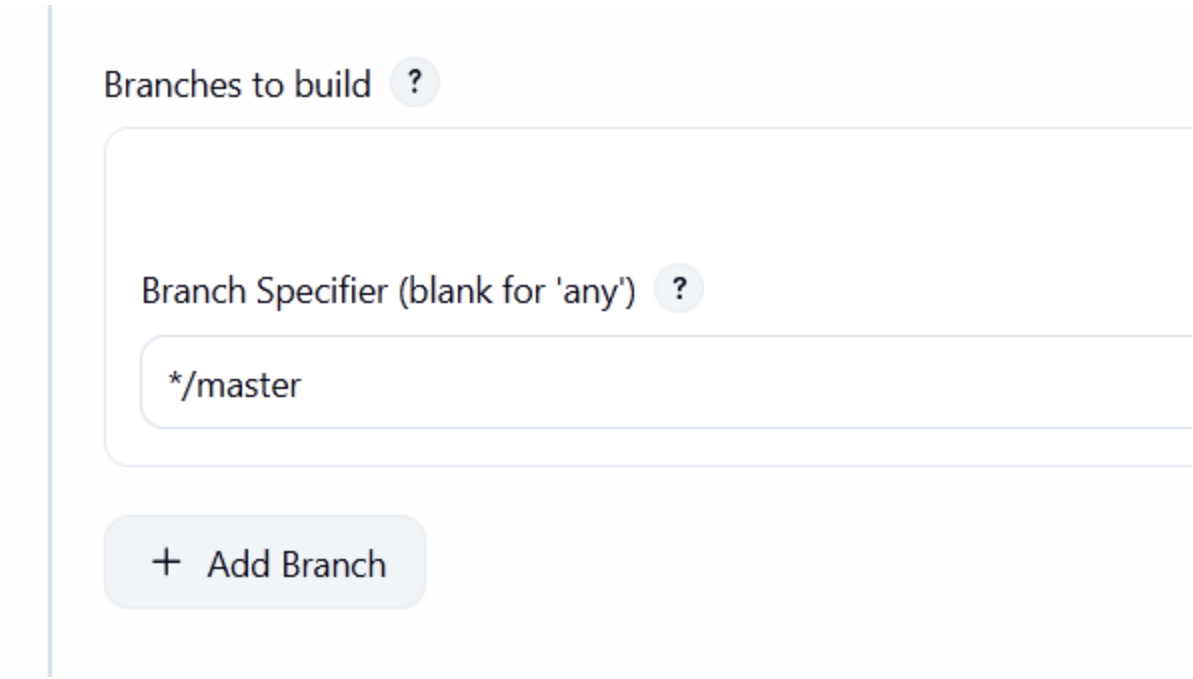
Now select the branch where the code exists. here the code exists in the master folder

Branches to build

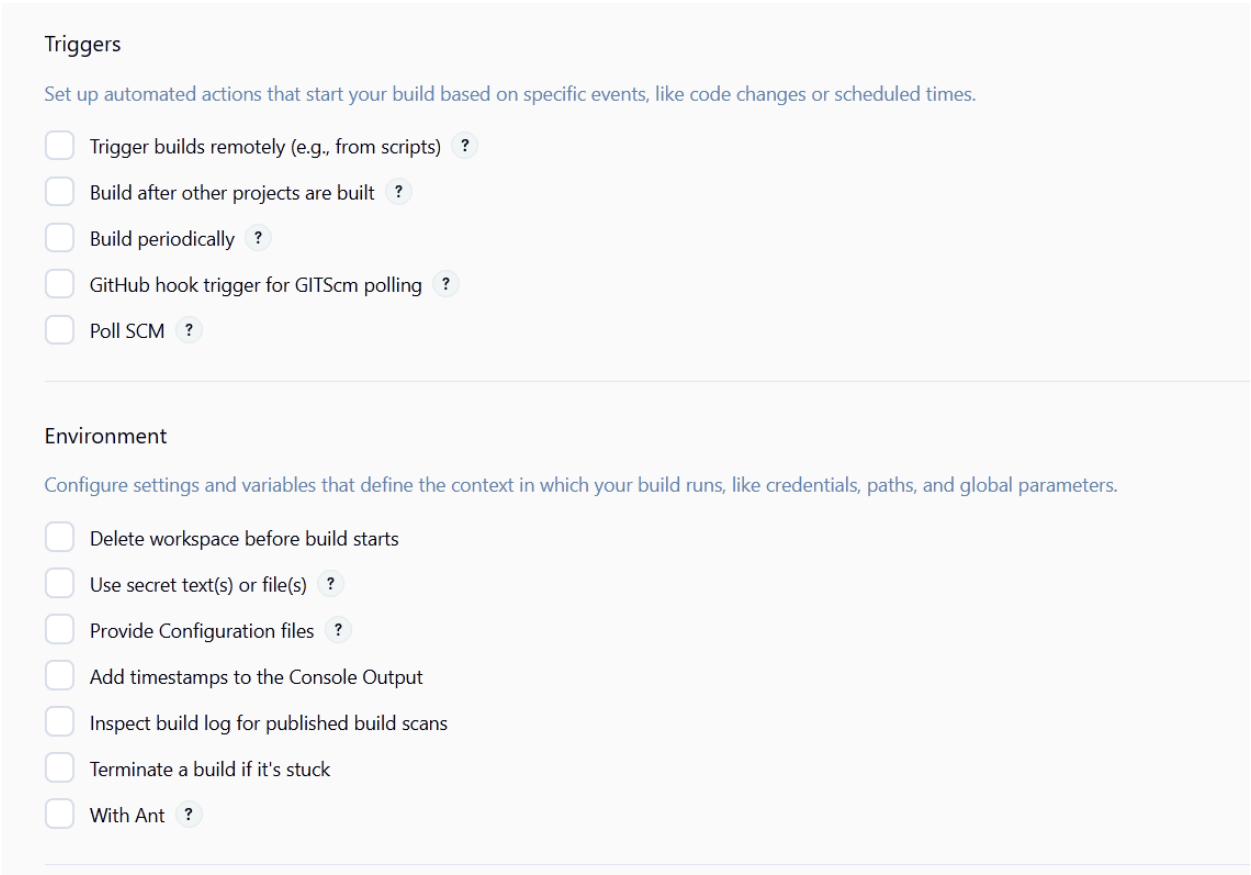
Use explicit reference:

```
refs/heads/main
```

(or `refs/heads/master` if applicable)



leave the triggers and environment as is



3. Build Steps

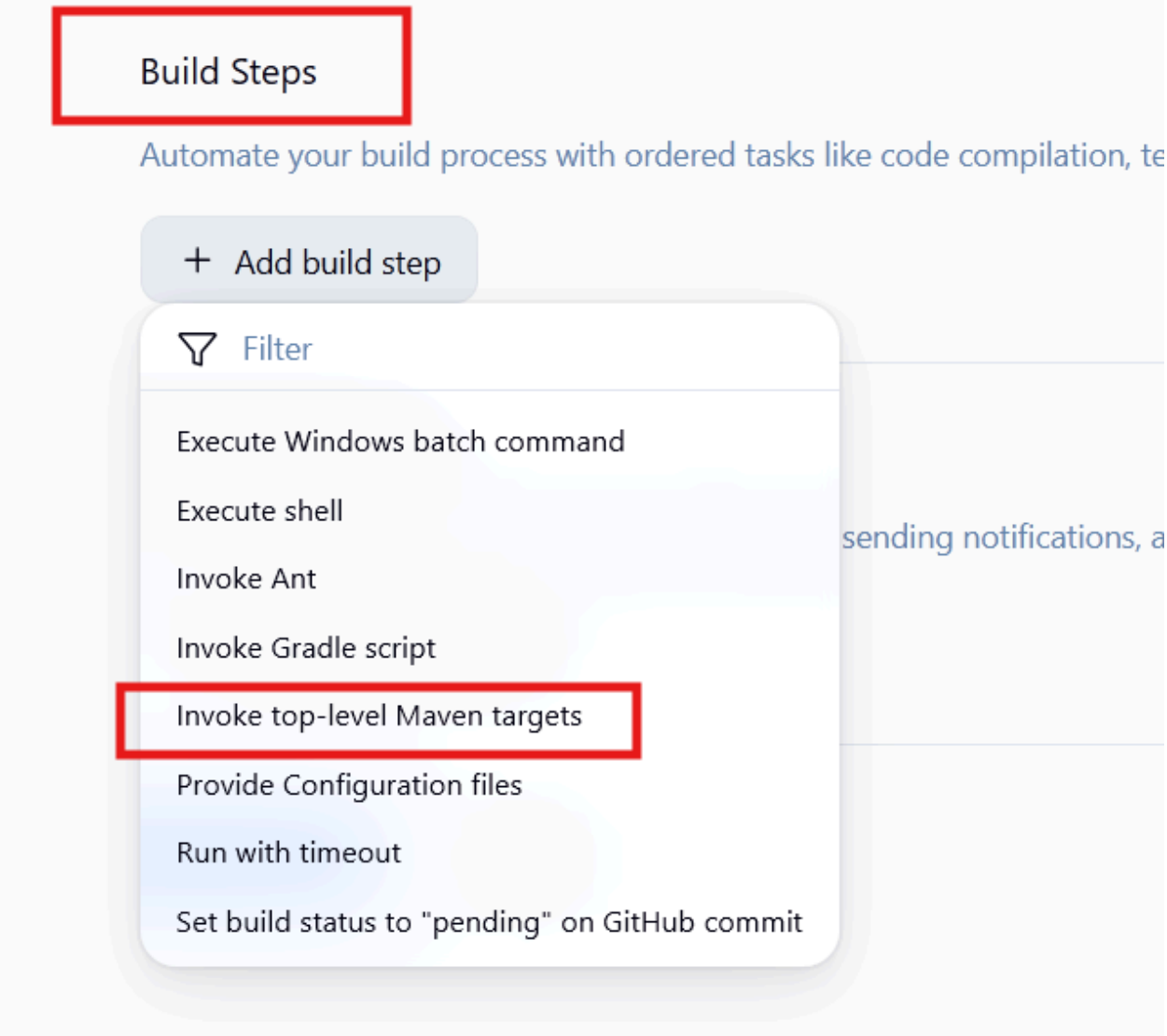
Add build step → **Invoke top-level Maven targets**

Goals

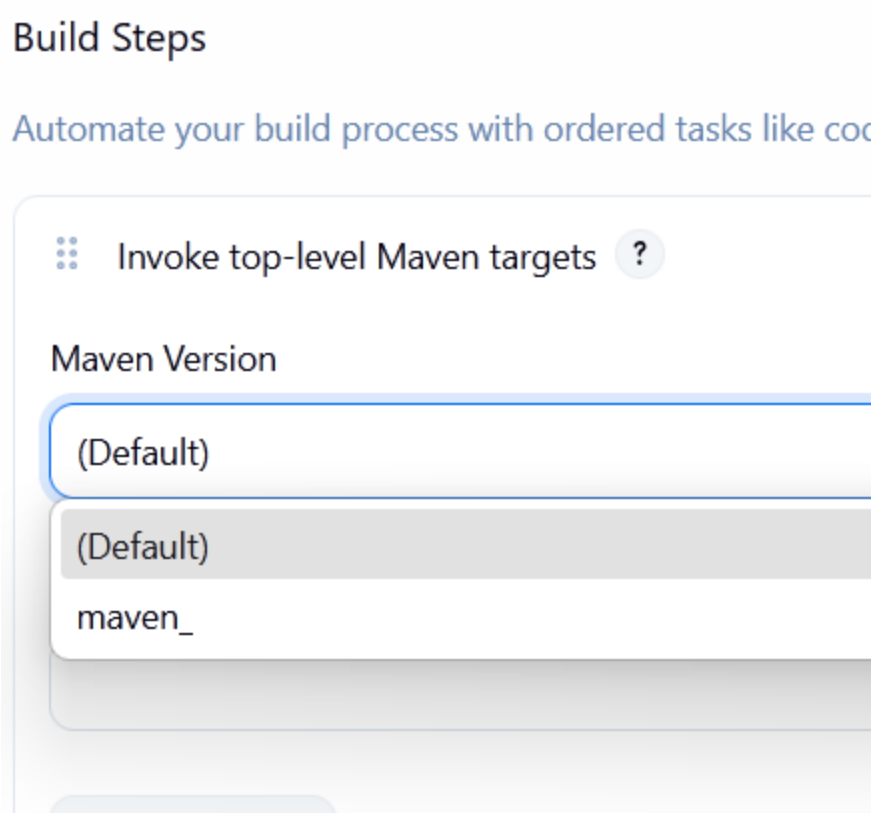
```
clean package
```

This command:

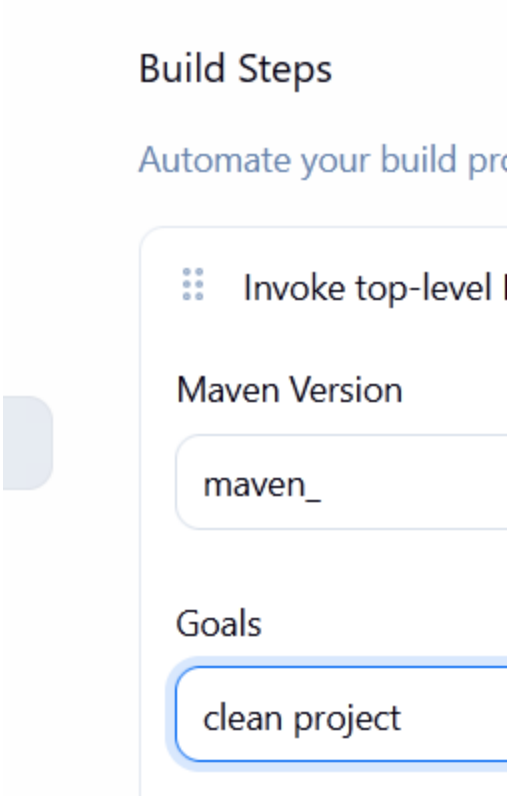
- Compiles the project
- Generates a WAR file



select maven version

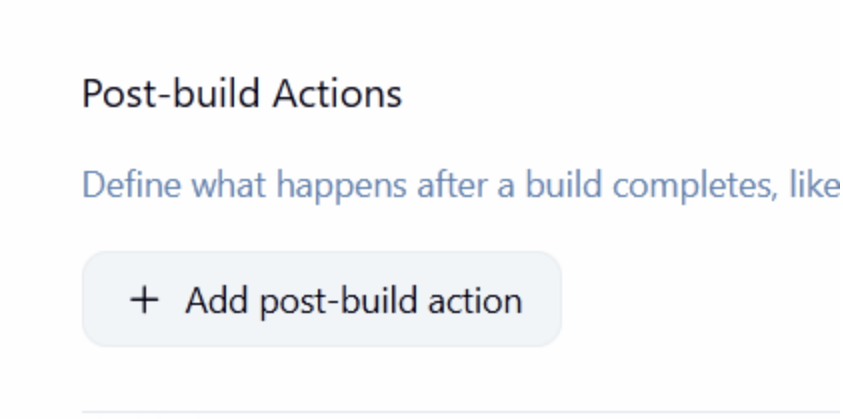


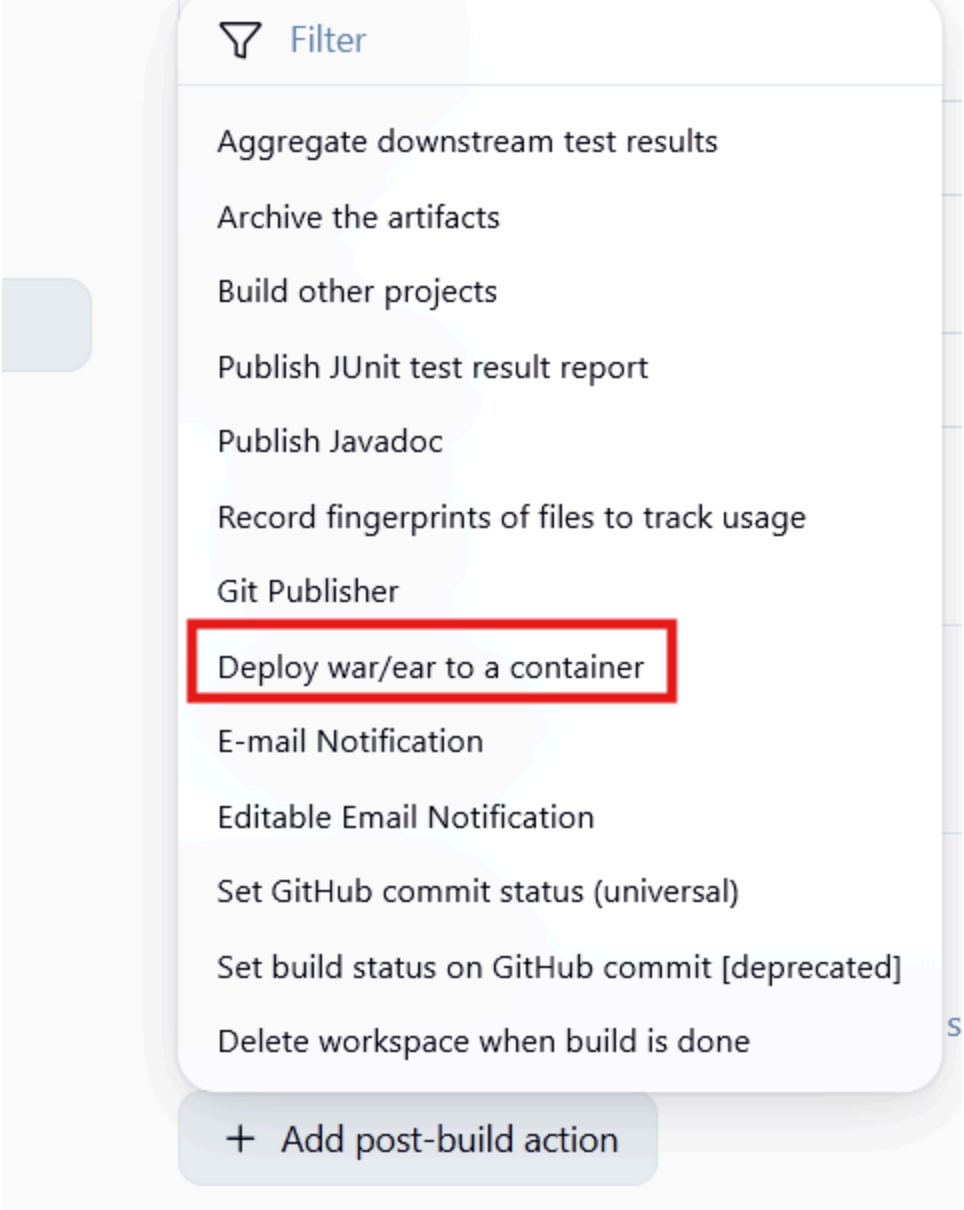
and define goals



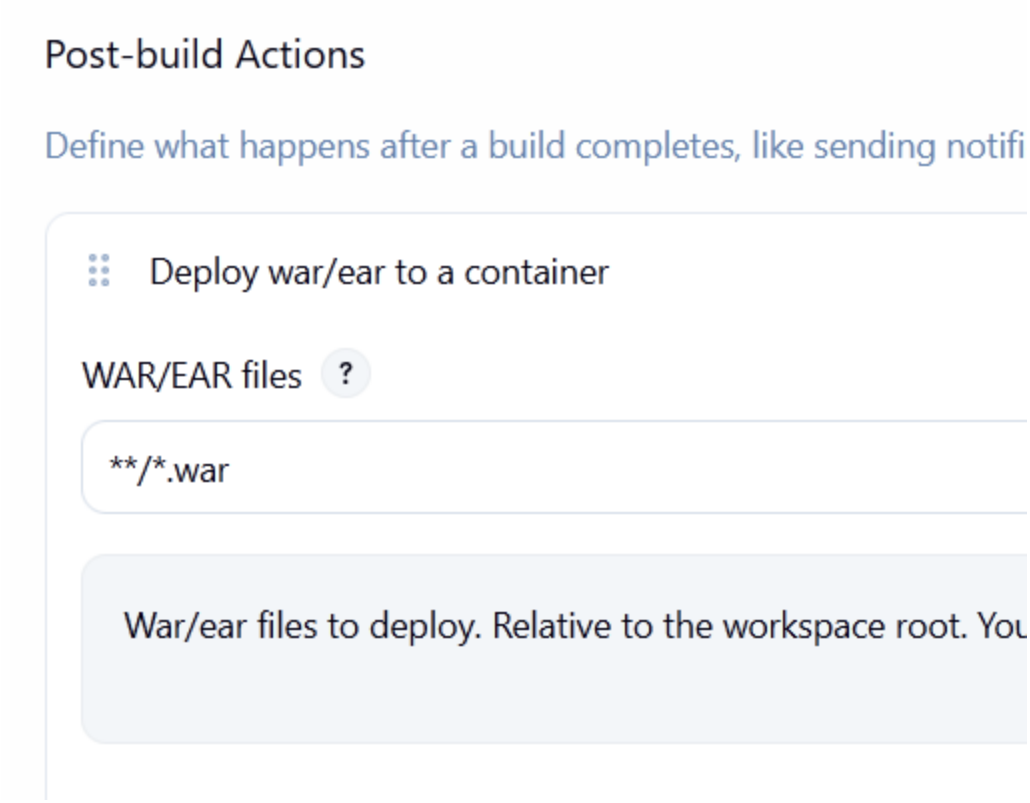
4. Post build steps

click on add post build and select this option

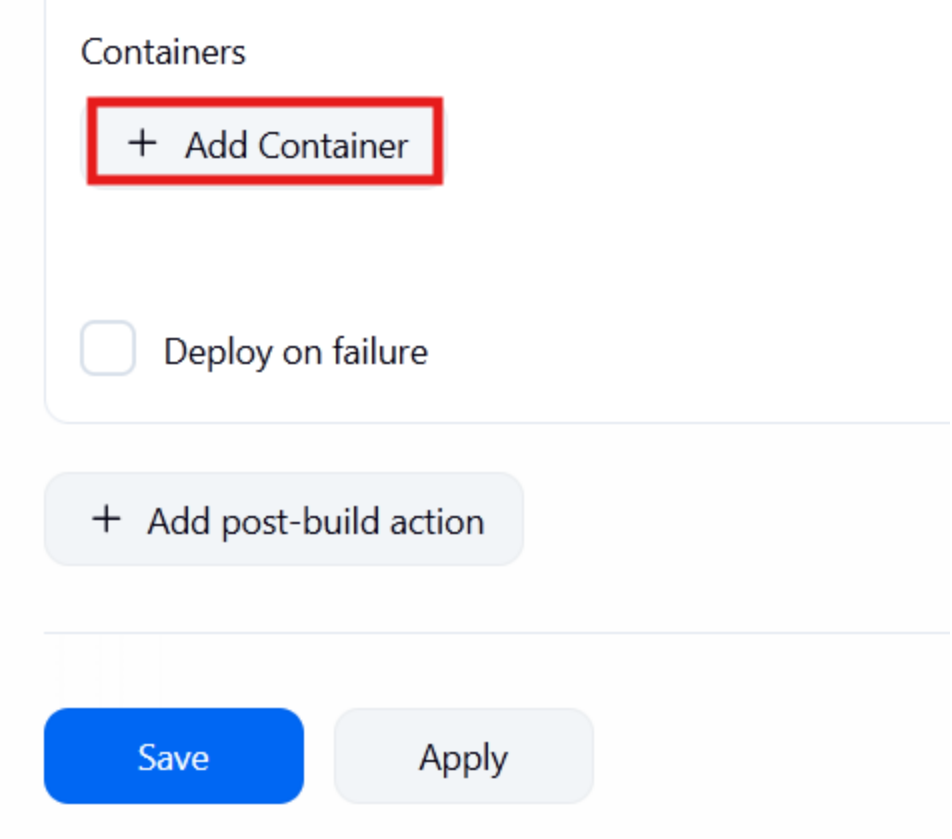




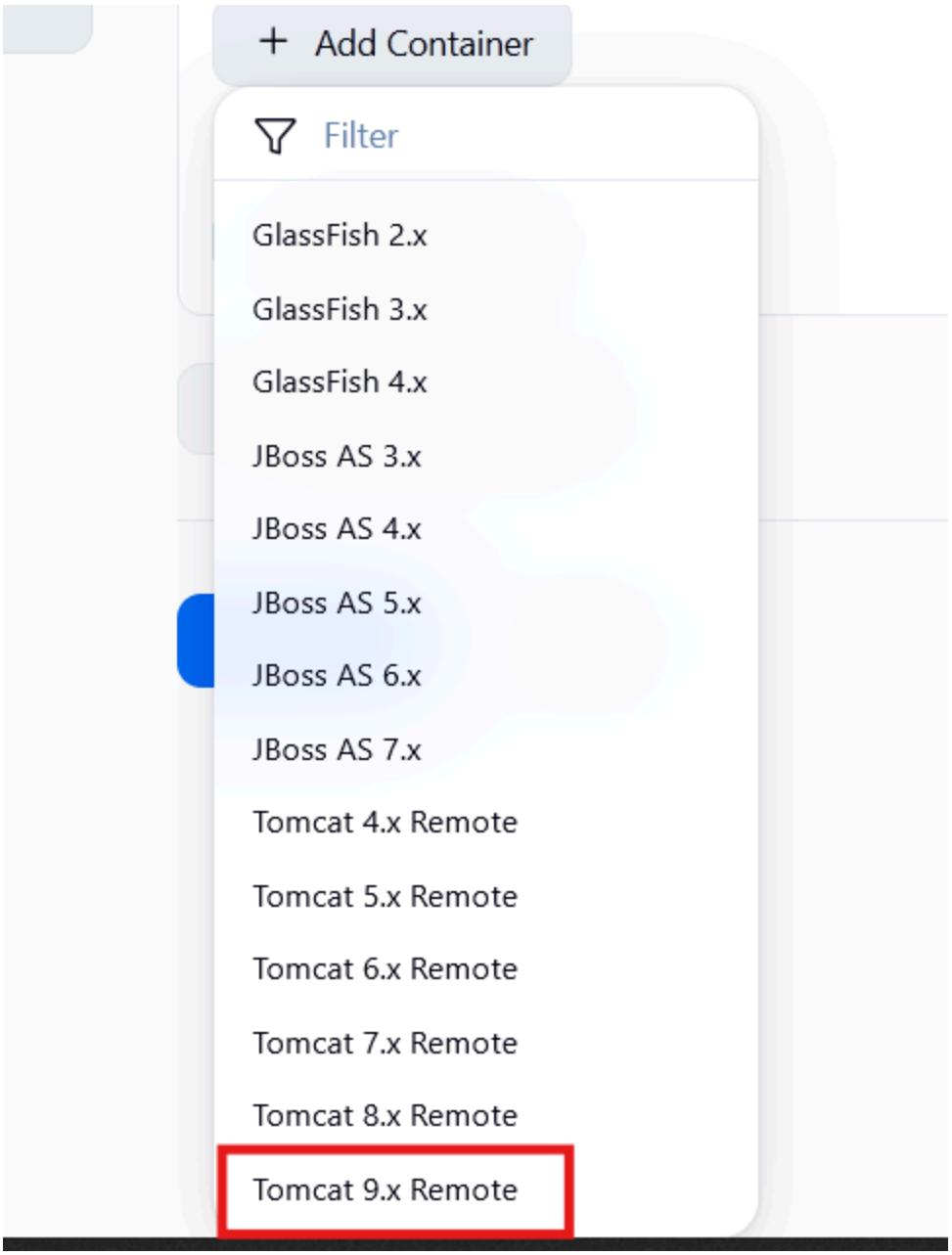
define the war/ear files as so



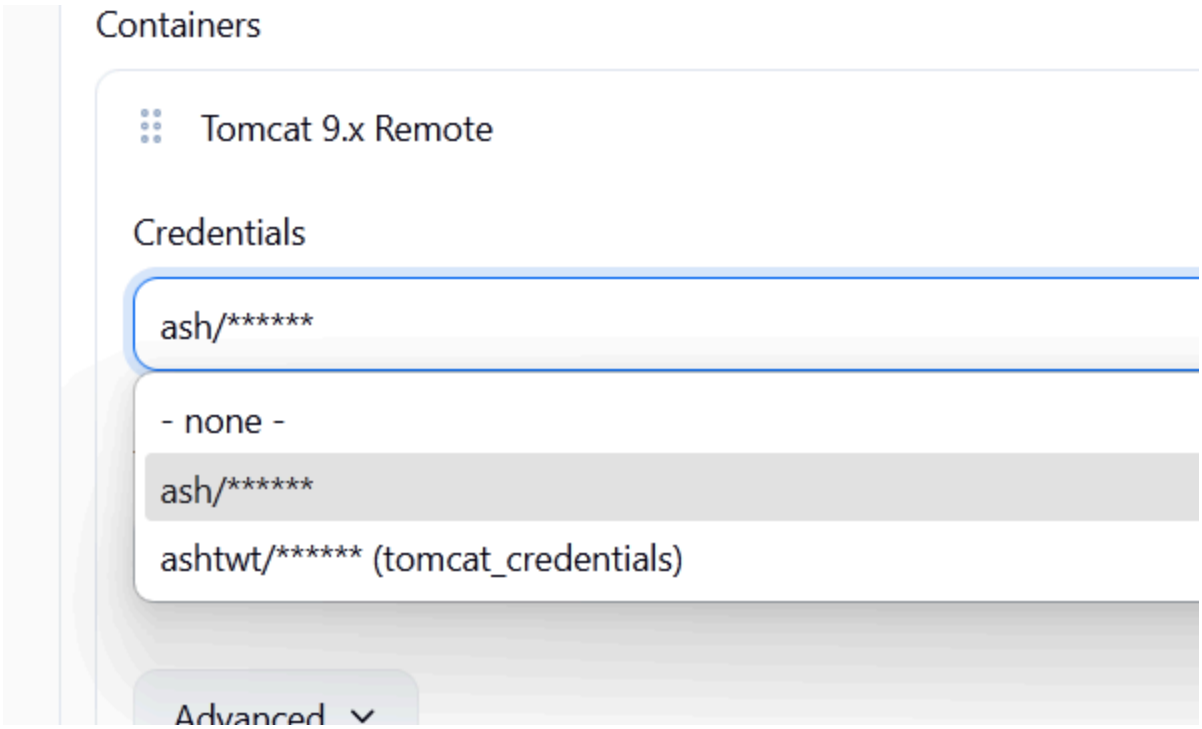
Click on add container



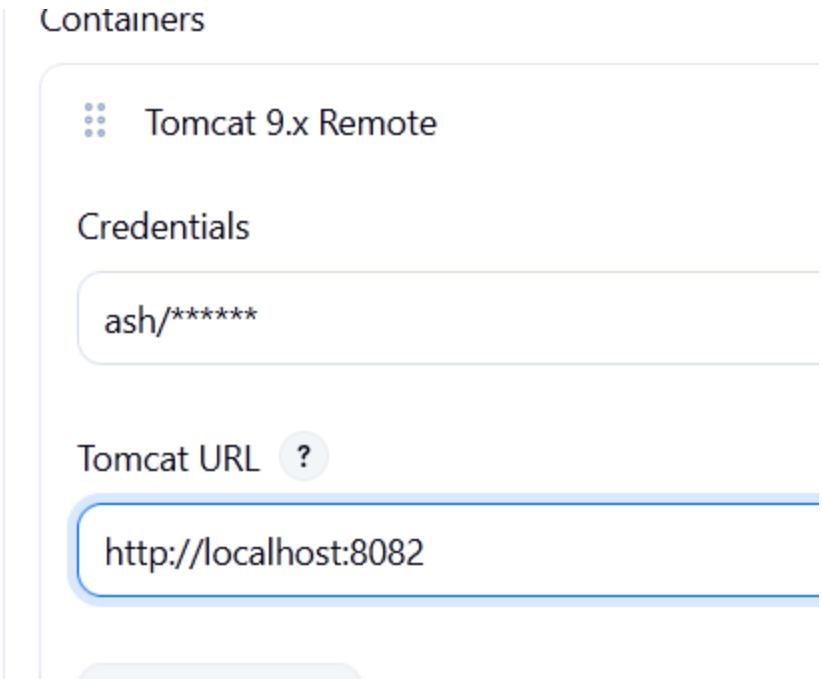
select tomcat version



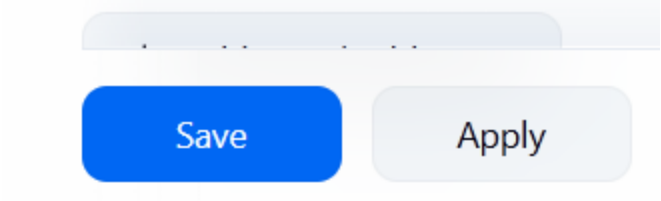
select tomcat credentials



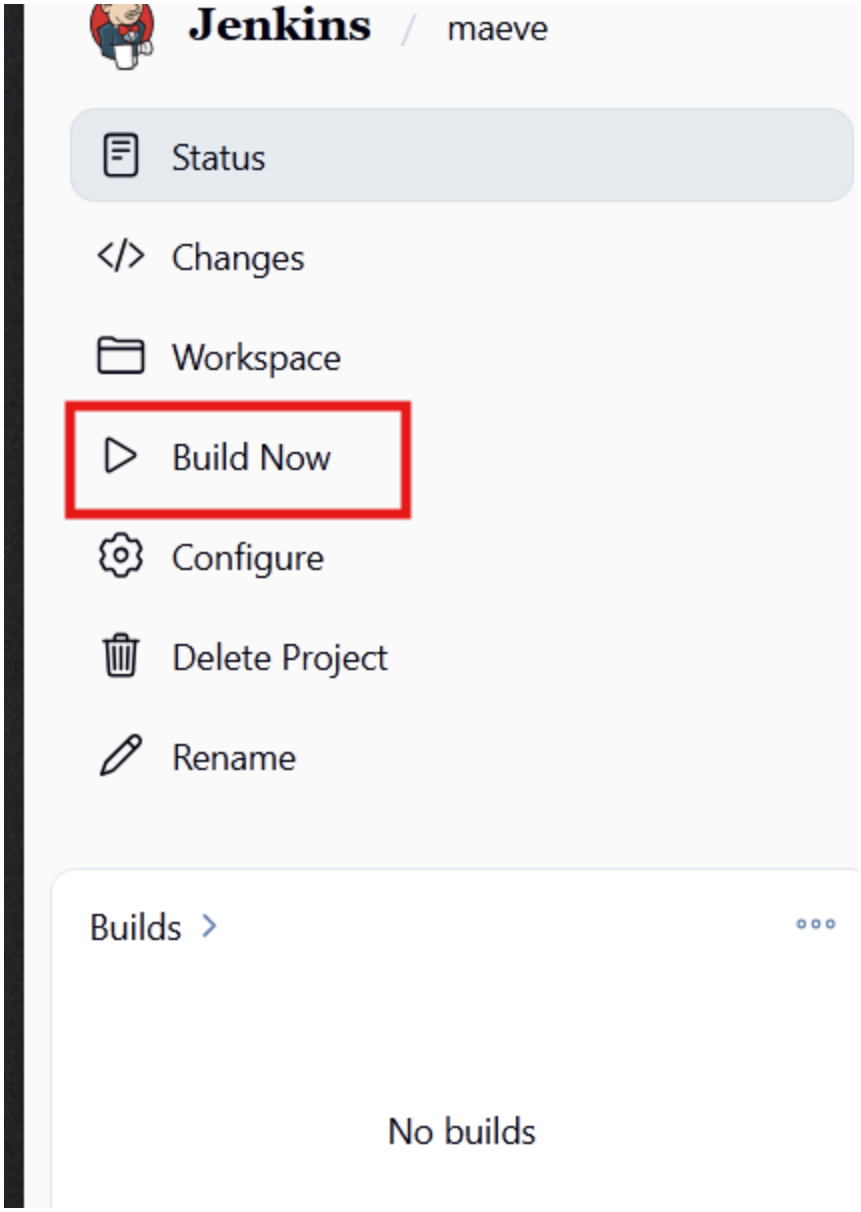
and finally give the tomcat local host url



Save and apply



click on build now



Verification

After successful build:

1. Jenkins console output shows:

```
BUILD SUCCESS
```

```
[INFO] Packaging webapp
[INFO] Assembling webapp [maven-web-application]
[INFO] Processing war project
[INFO] Copying webapp resources [C:\ProgramData\
[INFO] Building war: C:\ProgramData\Jenkins\.jenk
[INFO] ------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------
[INFO] Total time:  5.946 s
[INFO] Finished at: 2026-01-28T11:19:56+05:30
[INFO] ------------------------------------------
[DeployPublisher][INFO] Attempting to deploy 1 wa
[DeployPublisher][INFO] Deploying C:\ProgramData\
Tomcat 9.x Remote with context null
  [C:\ProgramData\Jenkins\.jenkins\workspace\mave
  Deploying [C:\ProgramData\Jenkins\.jenkins\work
Finished: SUCCESS
```

Tomcat Web Application Manager

Message:	OK

Manager

List Applications	HTML Manager Help	Manager Help	Server Status

Applications

Path	Version	Display Name	Running	Sessions	Commands
/	*None specified*	Welcome to Tomcat	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/EcommerceApp	*None specified*		true	1	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/docs	*None specified*	Tomcat Documentation	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/examples	*None specified*	Servlet and JSP Examples	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/host-manager	*None specified*	Tomcat Host Manager Application	true	1	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/manager	*None specified*	Tomcat Manager Application	true	1	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/maven-web-application	*None specified*	maven-web-application	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/petclinic	*None specified*		true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
					Start Stop Reload Undeploy

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