

# **Task – Deploy an application in tomcat using jenkins it should contain both front end and backend part**

**Step1:** For that i taken git repo it will contain both fromt end and backend appliaction(java and mysql jdbc connection application)

git link - <https://github.com/Chandangowdashankar/java-anda-sql.git>

**Step2:** For this task i choose t2 medium ubuntu instance and i install git,maven,jdk along with jenkins and tomcat

\*\* all the installtion guide is my previous task to refer

**Step3:** And i install mysql in the same server because project backend will contain mysql

## **mysql installtion step**

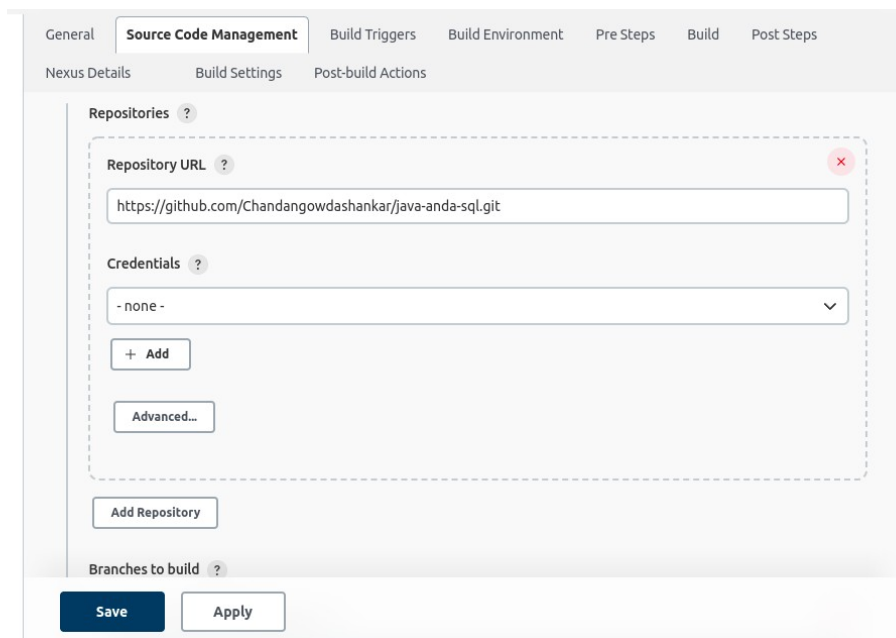
- sudo apt update
- sudo apt install mysql-server
- sudo mysql\_secure\_installation
- and while installtion we need to set an password for our mysql
- and we can login as root using that password
- to login using command sudo mysql -u root -p
- and we need to enter the password
- to view all the databases – show databases;
- to select databases – use databases;
- within databases to view tables – show tables;
- to view the table data – select \* from <table name>;

**Step4:** After all sucessful installtion we need to create a job in jenkins

- it should be the maven job because of java pom file(for that install maven integration plugin)
- it should contain above git repo
- And Then add goals of maven like clean and package

- then we need to add tomcat content to deploy(we need deploy to a container plugin)
- in a job we need to set tomact url and cerdintials and context path and war content
- we can run our job it will build the project and deploy into tomcat

## screenshots



This screenshot shows the 'Source Code Management' configuration page in Jenkins. The 'Repositories' section is active, displaying a list of repositories. One repository is configured with the URL 'https://github.com/Chandangowdashankar/java-anda-sql.git' and no credentials. Below the repository list, there are buttons for '+ Add', 'Advanced...', and 'Add Repository'. At the bottom, there are 'Save' and 'Apply' buttons.

General **Source Code Management** Build Triggers Build Environment Pre Steps Build Post Steps

Nexus Details Build Settings Post-build Actions

Repositories ?

Repository URL ?

https://github.com/Chandangowdashankar/java-anda-sql.git

Credentials ?

- none -

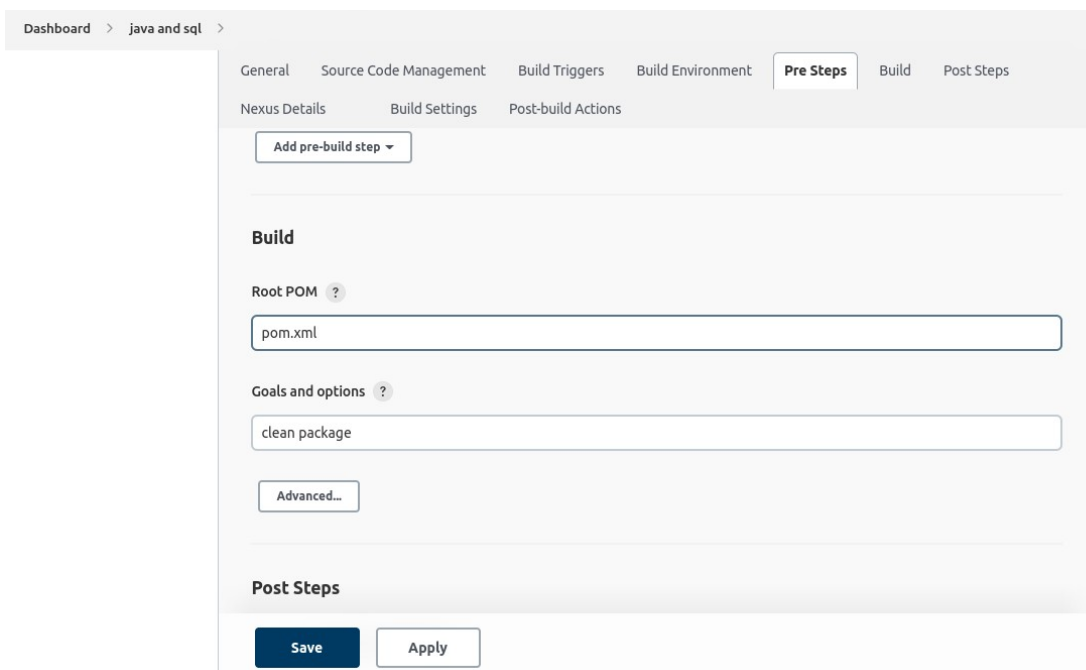
+ Add

Advanced...

Add Repository

Branches to build ?

Save Apply



This screenshot shows the 'Pre Steps' configuration page in Jenkins. The 'Build' section is active, displaying the 'Root POM' field with the value 'pom.xml'. Below it, the 'Goals and options' field is set to 'clean package'. There is an 'Advanced...' button below these fields. At the bottom, there are 'Save' and 'Apply' buttons.

Dashboard > java and sql >

General Source Code Management Build Triggers Build Environment **Pre Steps** Build Post Steps

Nexus Details Build Settings Post-build Actions

Add pre-build step

Build

Root POM ?

pom.xml

Goals and options ?

clean package

Advanced...

Post Steps

Save Apply

GeneralSource Code ManagementBuild TriggersBuild EnvironmentPre StepsBuildPost Steps

Nexus DetailsBuild SettingsPost-build Actions

Containers

Tomcat 9.x Remote

Credentials

admin/\*\*\*\*\* (tomcat)

+ Add

Tomcat URL ?

http://34.236.150.16:8090/

Advanced...

Add Container

☐ Deploy on failure

Save

Apply