

3.4 Building a Maven Project

This section will guide you to:

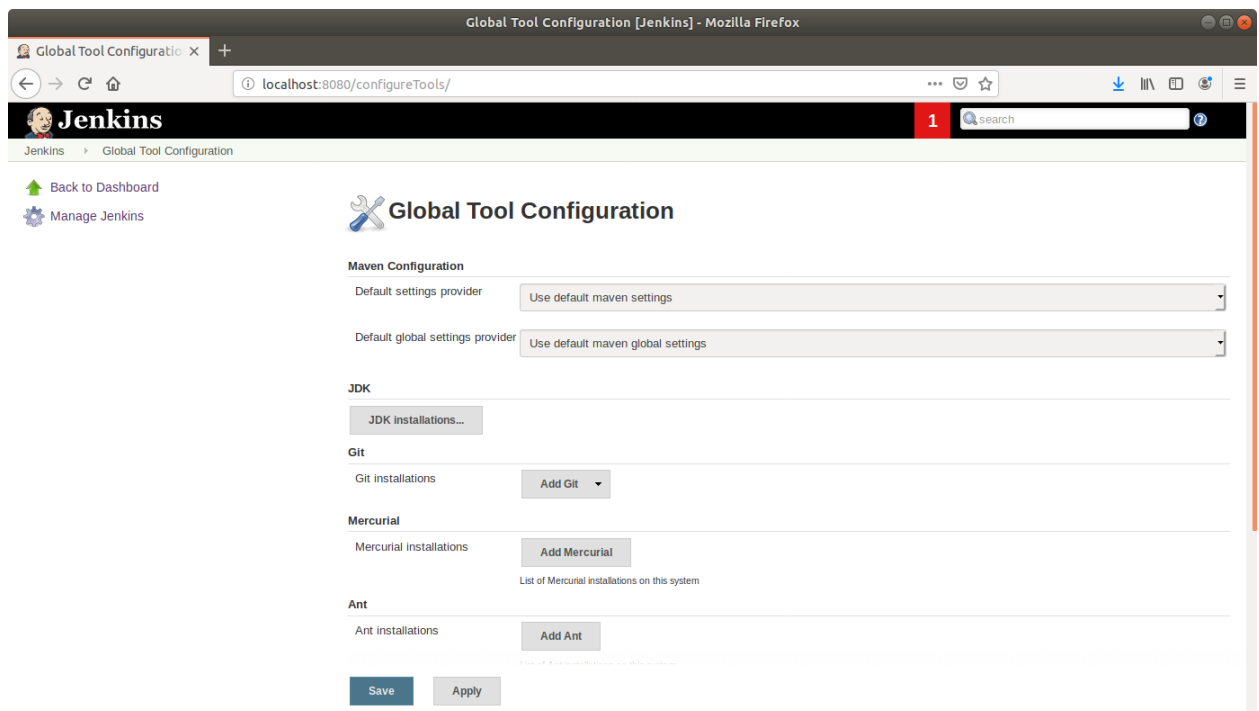
- Build a Maven project in Jenkins

This lab has four sub-sections, namely:

- 3.4.1 Configuring git on Jenkins
- 3.4.2 Forking a sample repository
- 3.4.3 Creating a Jenkins build job to build a Maven project
- 3.4.4 Building the Maven project

Step 3.4.1: Configuring git on Jenkins

- Go to *Manage Jenkins* from the Jenkins dashboard and select *Global Tool Configuration*.
- Scroll down to the *Git* section and click on *Add git*.



- Enter a name to refer the git installation.
- Enter the path to git at the *Path to git executable field* and click Save.

Global Tool Configuration [Jenkins] - Mozilla Firefox

Global Tool Configuration x +

localhost:8080/configureTools/

Jenkins 1 search

Jenkins > Global Tool Configuration

Back to Dashboard
Manage Jenkins

Global Tool Configuration

Maven Configuration

Default settings provider: Use default maven settings

Default global settings provider: Use default maven global settings

JDK

JDK installations...

Git

Git installations

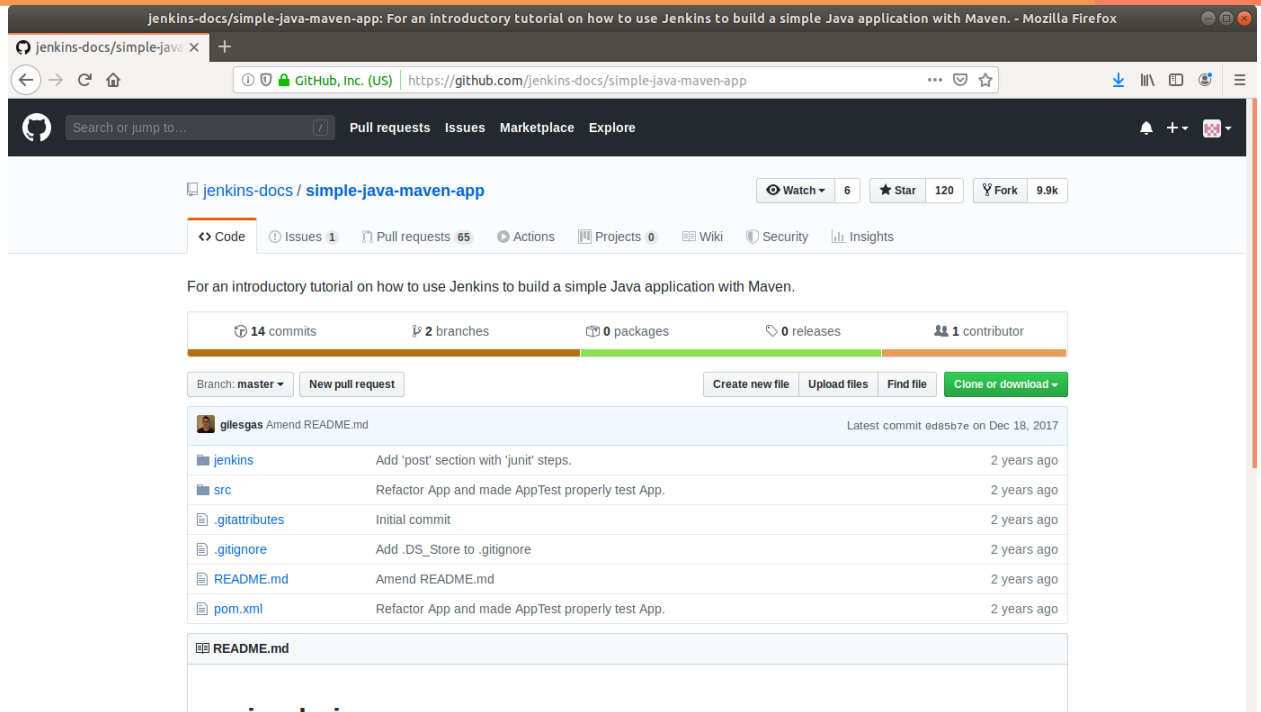
Git	
Name	my_git
Path to Git executable	/usr/bin/git
<input type="checkbox"/> Install automatically	

Delete Git

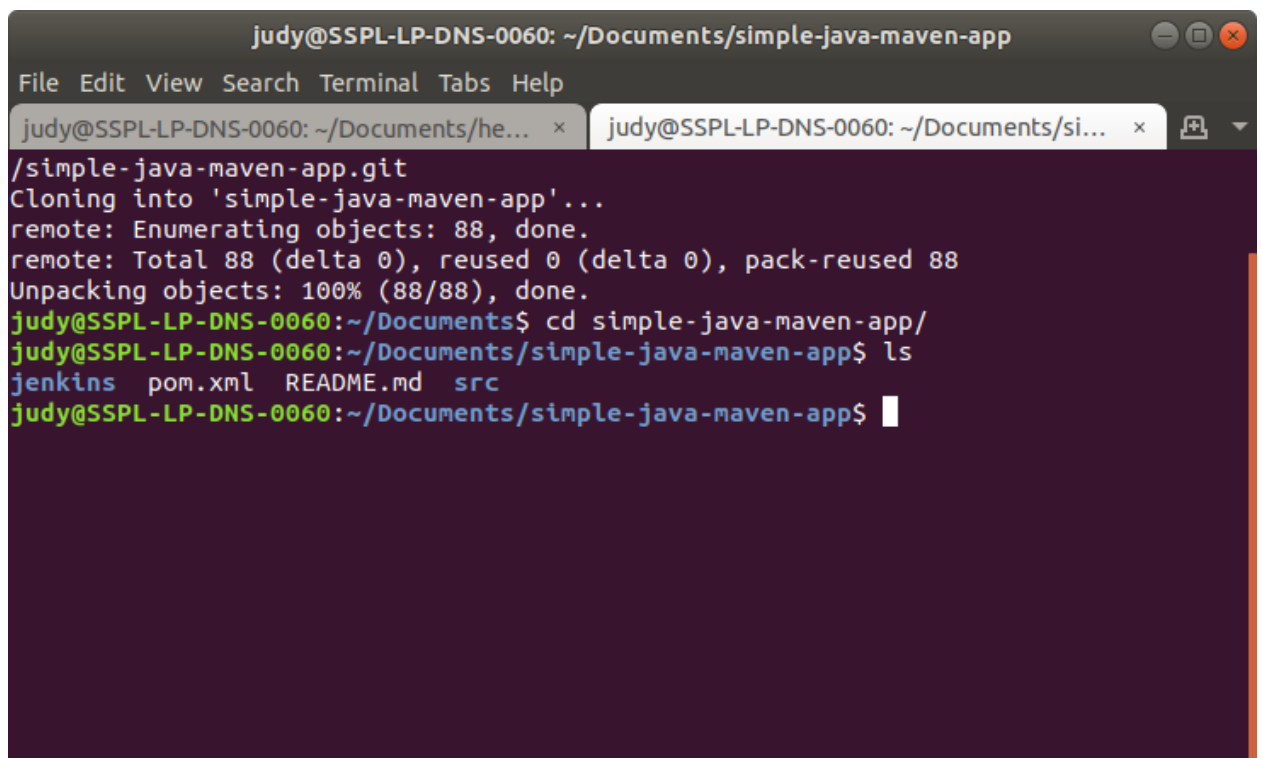
Save Apply

Step 3.4.2: Forking a sample repository

- Log on to your Github account.
- Navigate to <https://github.com/jenkins-docs/simple-java-maven-app> and click on *Fork*.



- Open the terminal.
- Run ***git clone [Forked_REPO URL]*** to clone the repo locally.



3.4.3: Creating a Jenkins build job to build a Maven project

- Select *Maven Project* as the build job type.

New Item [Jenkins] - Mozilla Firefox

localhost:8080/view/all/newJob

Jenkins

Enter an item name

sample-maven-app

Freestyle project

Maven project

Pipeline

Multi-configuration project

Bitbucket Team/Project

Folder

OK

- Click *OK*.
- Leave the defaults as they are and scroll down to the *Source Code Management* section.
- Select *Git*.
- Enter the local path to the app directory in the Repository URL field.

sample-maven-app Config [Jenkins] - Mozilla Firefox

localhost:8080/job/sample-maven-app/configure

Jenkins sample-maven-app

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

Post-build Actions

Source Code Management

None

Git

Repositories

Repository URL

/home/judy/Documents/simple-java-maven-app

Credentials

- none -

Add

Advanced...

Add Repository

Branches to build

Branch Specifier (blank for 'any')

*/master

Add Branch

Repository browser

(Auto)

Additional Behaviours

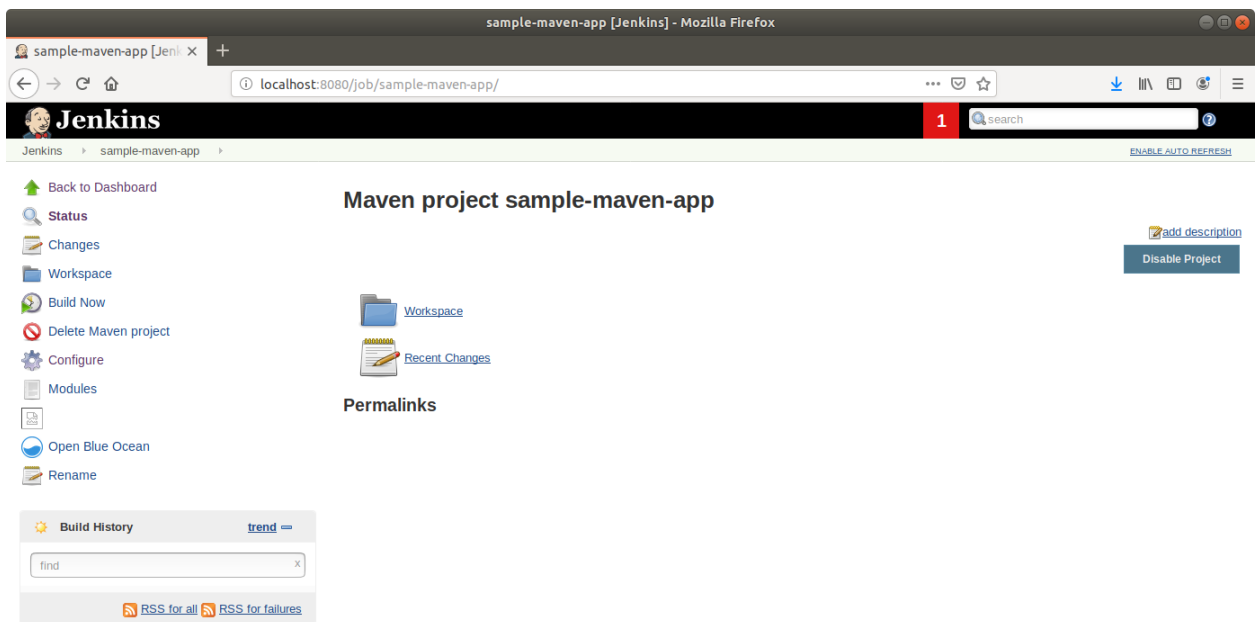
Add

Save Apply

- Click *Save*.

Step 3.4.4: Building the Maven project

- Click on the project name in the Jenkins dashboard.
- Click *Build Now* in the project window. Jenkins will now build your project.



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- Click on the *Build History* to view the build results.
- Click on the *Console Output* to view the build logs.

sample-maven-app #1 Console [Jenkins] - Mozilla Firefox

sample-maven-app #1 × +

localhost:8080/job/sample-maven-app/1/console

Jenkins

1

search

Jenkins sample-maven-app #1

[Back to Project](#)
[Status](#)
[Changes](#)
[Console Output](#)
[View as plain text](#)
[Edit Build Information](#)
[Delete build '#1'](#)
[Git Build Data](#)
[No Tags](#)
[Open Blue Ocean](#)

Console Output

Started by user unknown or anonymous

Running as SYSTEM

Building in workspace /var/lib/jenkins/workspace/sample-maven-app

No credentials specified

> /usr/bin/git rev-parse --is-inside-work-tree # timeout=10

Fetching changes from the remote Git repository

> /usr/bin/git config remote.origin.url /home/judy/Documents/simple-java-maven-app # timeout=10

Fetching upstream changes from /home/judy/Documents/simple-java-maven-app

> /usr/bin/git --version # timeout=10

> /usr/bin/git fetch --tags --progress -- /home/judy/Documents/simple-java-maven-app +refs/heads/*:refs/remotes/origin/* # timeout=10

> /usr/bin/git rev-parse refs/remotes/origin/master^{commit} # timeout=10

> /usr/bin/git rev-parse refs/remotes/origin/origin/master^{commit} # timeout=10

Checking out Revision 0d85b7e1fd39bc6978511f92381aa10534ca4c1b (refs/remotes/origin/master)

> /usr/bin/git config core.sparsecheckout # timeout=10

> /usr/bin/git checkout -f 0d85b7e1fd39bc6978511f92381aa10534ca4c1b # timeout=10

Commit message: "Amend README.md"

First time build. Skipping changelog.

Finished: SUCCESS

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