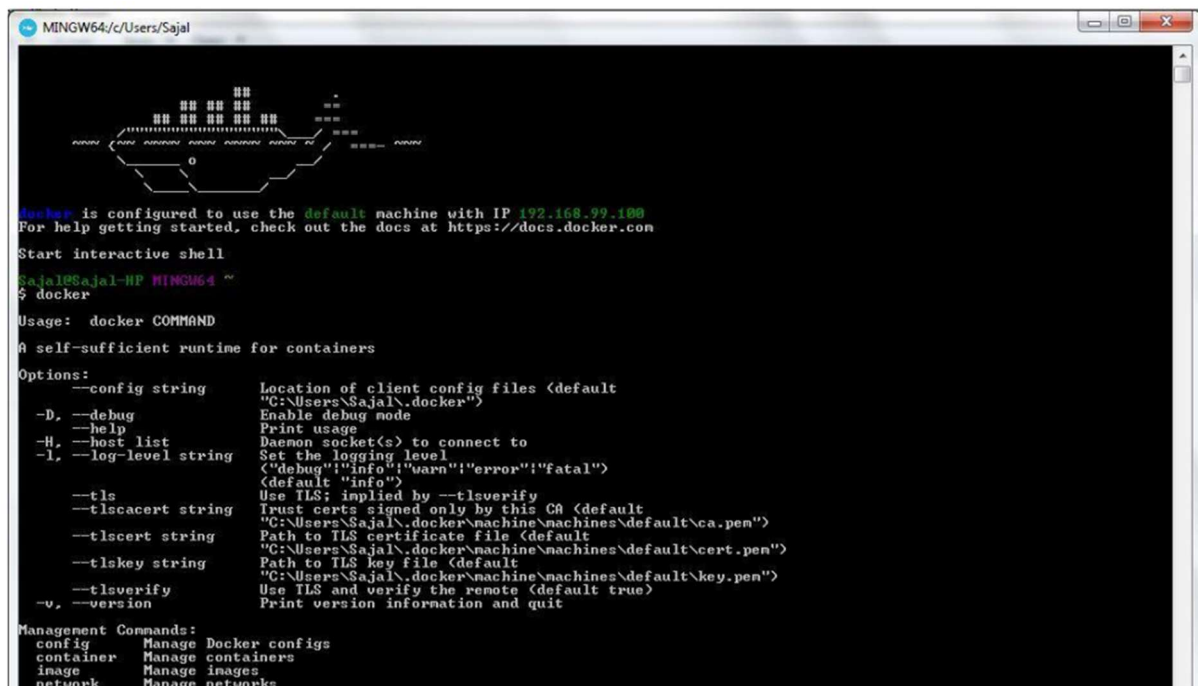


# Deploying ELK Stack on Docker Container

## Screenshots

### GitHub:

[https://github.com/Bikki084/Java\\_FSD\\_All\\_Projects/tree/master/Phase\\_5/practice\\_projects/practice\\_project\\_5](https://github.com/Bikki084/Java_FSD_All_Projects/tree/master/Phase_5/practice_projects/practice_project_5)



```
MINGW64/c/Users/Sajal
C:\Users\Sajal>docker

Docker is configured to use the default machine with IP 192.168.99.100
For help getting started, check out the docs at https://docs.docker.com

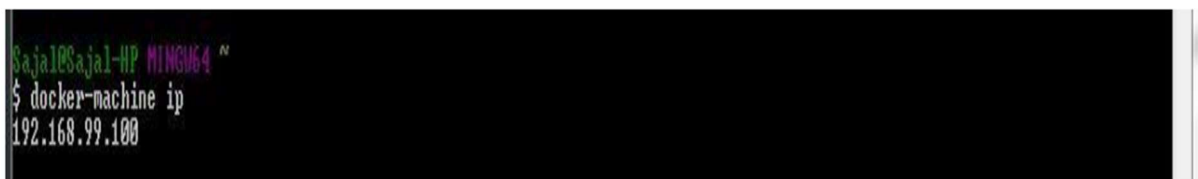
Start interactive shell
Sajal@Sajal-HP MINGW64 ~
$ docker

Usage: docker COMMAND

A self-sufficient runtime for containers

Options:
  -config string      Location of client config files (default
                        "C:\Users\Sajal\.docker")
  -D, --debug          Enable debug mode
  -help              Print usage
  -H, --host list      Daemon socket(s) to connect to
  -l, --log-level string Set the logging level
                        ("debug":"info":"warn":"error":"fatal")
                        (default "info")
  --tls               Use TLS; implied by --tlsverify
  --tlscacert string   Trust certs signed only by this CA (default
                        "C:\Users\Sajal\.docker\machine\machines\default\ca.pem")
  --tlscert string     Path to TLS certificate file (default
                        "C:\Users\Sajal\.docker\machine\machines\default\cert.pem")
  --tlskey string      Path to TLS key file (default
                        "C:\Users\Sajal\.docker\machine\machines\default\key.pem")
  --tlsverify          Use TLS and verify the remote (default true)
  -v, --version        Print version information and quit

Management Commands:
  config      Manage Docker configs
  container   Manage containers
  image       Manage images
  network     Manage networks
```



```
Sajal@Sajal-HP MINGW64 ~
$ docker-machine ip
192.168.99.100
```



Generate a Maven Project with Spring Boot 1.4.0

## Project Metadata

Artifact coordinates

Group

com.howtodoinjava.demo

Artifact

springbootdemo

Name

SpringBootDemo

Description

Spring Boot Demo for http://howtodoinjava.com

Package Name

com.howtodoinjava.demo

Packaging

Jar

Java Version

1.8

Language

Java

Too many options? [Switch back to the simple version.](#)

## Dependencies

Add Spring Boot Starters and dependencies to your application

Search for dependencies

Web, Security, JPA, Actuator, Devtools...

Selected Dependencies

Web

Jersey (JAX-RS)

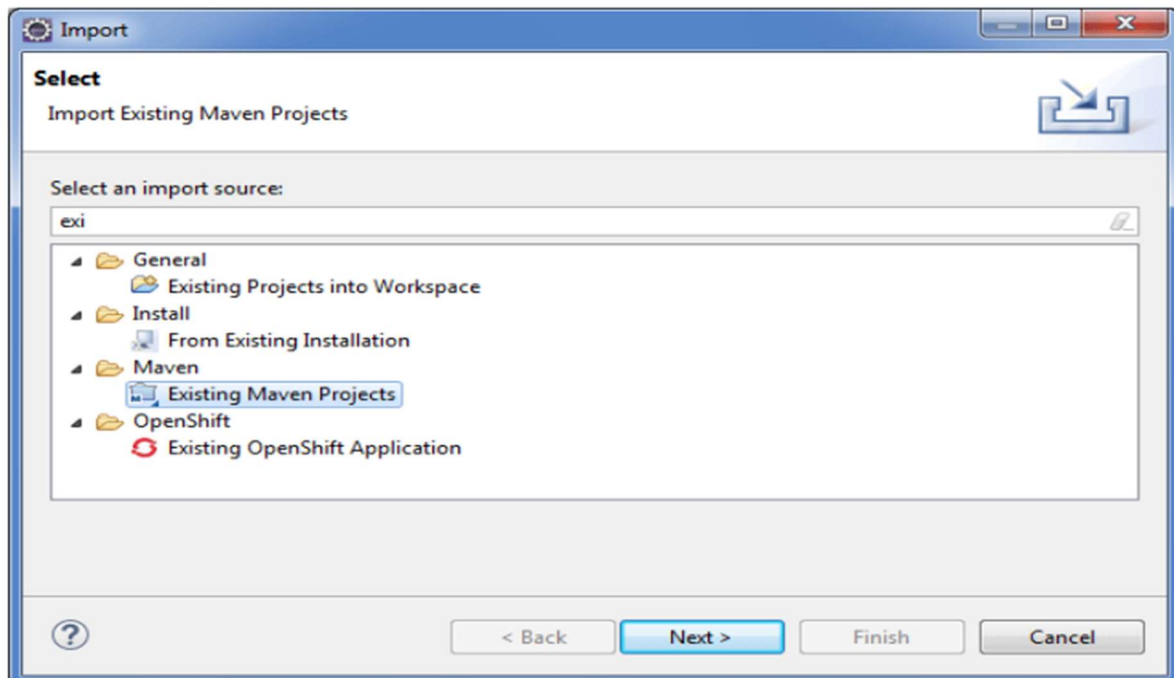
HATEOAS

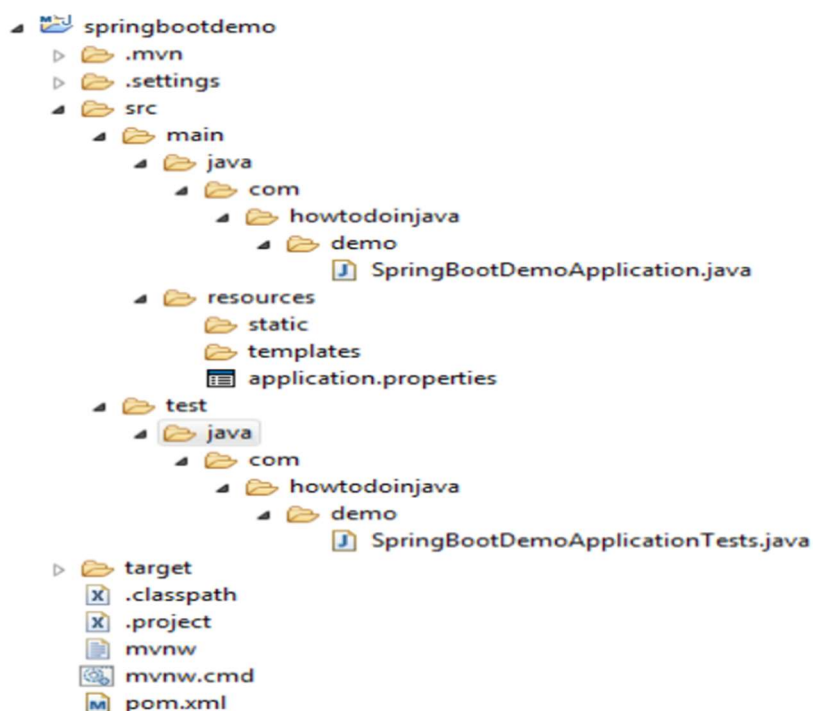
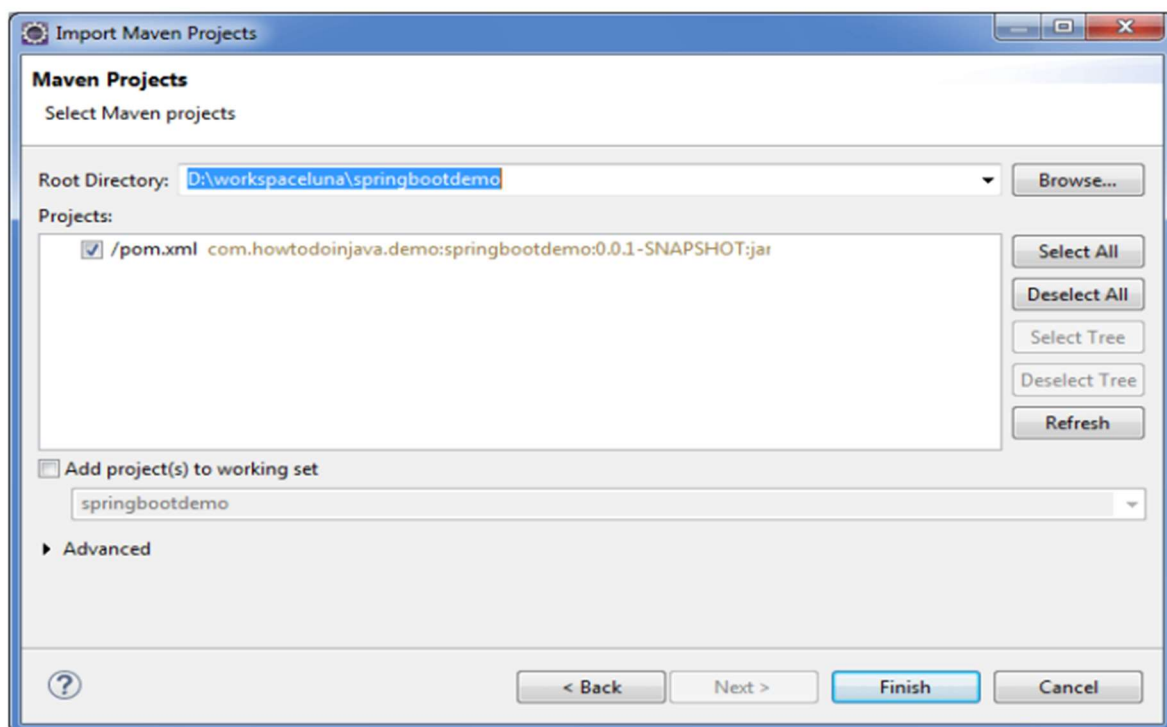
JPA

Security

HSQLDB

Generate Project alt + d





## Simple REST Client

### Request

URL:

Method: ☒ GET ☐ POST ☐ PUT ☐ DELETE ☐ HEAD ☐ OPTIONS

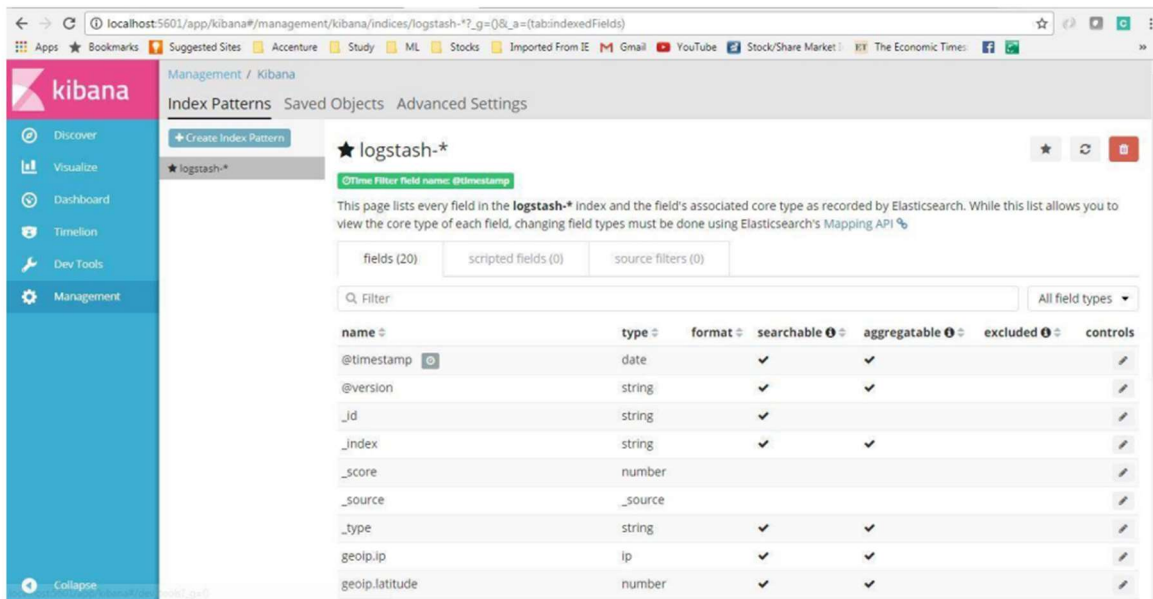
Headers:

### Response

Status: 200 OK

Headers:

Data:



The screenshot shows the Kibana Management console interface. The left sidebar contains navigation links: Discover, Visualize, Dashboard, Timeline, Dev Tools, and Management (selected). The main content area is titled "Management / Kibana" and shows the "Index Patterns" tab. The selected index pattern is "logstash-\*". A green banner indicates an "Offtime Filter field name: @timestamp". Below this, a text block explains that the page lists every field in the logstash-\* index and the field's associated core type as recorded by Elasticsearch. A table lists the fields (20) with columns: name, type, format, searchable, aggregatable, excluded, and controls. The table includes fields like @timestamp, @version, \_id, \_index, \_score, \_source, \_type, geoip.ip, and geoip.latitude.

name	type	format	searchable	aggregatable	excluded	controls
@timestamp	date		✓	✓		
@version	string		✓	✓		
_id	string		✓			
_index	string		✓	✓		
_score	number					
_source	_source					
_type	string		✓	✓		
geoip.ip	ip		✓	✓		
geoip.latitude	number		✓	✓		



## 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:

```
/var/jenkins_home/secrets/initialAdminPassword
```

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

Administrator password

Continue

```
INFO: Pre-instantiating singletons in org.springframework.beans.factory.support.DefaultListableBeanFactory@24cf7404: defining beans [filter,legacy]; root of factory hierarchy
Sep 30, 2017 7:18:39 AM jenkins.install.SetupWizard init
INFO:
*****
*****
*****

Jenkins initial setup is required. An admin user has been created and a password generated.
Please use the following password to proceed to installation:

2f664d3663814887964b6882940572567

This may also be found at: /var/jenkins_home/secrets/initialAdminPassword

*****
*****
*****

--> setting agent port for jnlp
--> setting agent port for jnlp... done
Sep 30, 2017 7:18:51 AM hudson.model.UpdateSite updateData
INFO: Obtained the latest update center data file for UpdateSource default
Sep 30, 2017 7:18:52 AM hudson.model.UpdateSite updateData
INFO: Obtained the latest update center data file for UpdateSource default
Sep 30, 2017 7:18:52 AM hudson.WebAppMain$3 run
INFO: Jenkins is fully up and running
Sep 30, 2017 7:18:52 AM hudson.model.DownloadService$Downloadable load
INFO: Obtained the updated data file for hudson.tasks.Maven.MavenInstaller
Sep 30, 2017 7:18:58 AM hudson.model.DownloadService$Downloadable load
INFO: Obtained the updated data file for hudson.tools.JDKInstaller
Sep 30, 2017 7:18:59 AM hudson.model.AsyncPeriodicWork$1 run
INFO: Finished Download metadata. 25,543 ms
```



simple-java-maven-app 1

PipelineChangesTestsArtifacts

Branch: -- 1m 9s No changes  
Commit: -- - Started by user Alex

> General SCM <1s

> docker pull maven:3-alpine -- Shell Script 44s

```
1 [simple-java-maven-app] Running shell script
2 + docker pull maven:3-alpine
3 3-alpine: Pulling from library/maven
4 88286f41530e: Already exists
5 009f6e766a1b: Pulling fs layer
6 86ed68184682: Pulling fs layer
7 f9cdc72bb970: Pulling fs layer
8 7e4415124188: Pulling fs layer
9 f6ba1c32fdb3: Pulling fs layer
10 8f690e3687b2: Pulling fs layer
11 7e4415124188: Waiting
12 f6ba1c32fdb3: Waiting
13 8f690e3687b2: Waiting
14 009f6e766a1b: Download complete
15 009f6e766a1b: Pull complete
16 f9cdc72bb970: Download complete
17 f6ba1c32fdb3: Download complete
18 8f690e3687b2: Verifying Checksum
19 8f690e3687b2: Download complete
20 7e4415124188: Verifying Checksum
21 7e4415124188: Download complete
22 86ed68184682: Verifying Checksum
23 86ed68184682: Download complete
24 86ed68184682: Pull complete
25 f9cdc72bb970: Pull complete
26 7e4415124188: Pull complete
27 f6ba1c32fdb3: Pull complete
28 8f690e3687b2: Pull complete
29 Digest: sha256:400fb45cfcedfc492ff91319ea0a58f570172f8cf65f40b9b14931f44a6c1417
30 Status: Downloaded newer image for maven:3-alpine
```

simple-java-maven-app 1

PipelineChangesTestsArtifacts

Branch: -- 1m 50s No changes  
Commit: -- - Started by user Alex

Start Build End

Steps Build

> docker pull maven:3-alpine -- Shell Script 56s

> General SCM <1s

> mvn -B -DskipTests clean package -- Shell Script 28s

```
1 [simple-java-maven-app] Running shell script
2 + mvn -B -DskipTests clean package
3 [INFO] Scanning for projects...
4 [INFO]
5 [INFO] -----
6 [INFO] Building my-app 1.0-SNAPSHOT
7 [INFO]
8 [INFO] Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/2.5/maven-clean-plugin-2.5.pom
9 [INFO] Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/2.5/maven-clean-plugin-2.5.pom (3.9
10 KB at 1.5 KB/s)
11 [INFO] Downloading: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/22/maven-plugins-22.pom
12 [INFO] Downloaded: https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/22/maven-plugins-22.pom (13 KB at 22
13 KB/s)
```



Jenkins

PipelinesAdministration

simple-java-maven-app

ActivityBranchesPull Requests

Run

STATUS	RUN	COMMIT	MESSAGE	DURATION	COMPLETED
	1	—	Started by user Alex	2m 49s	7 minutes ago

- e2b50bd - (no branch) - 19th September 2017 10:42 PM

✓ simple-java-maven-app 2

PipelineChangesTestsArtifacts

Branch: — 25s Changes by giles gas

Commit: — a few seconds ago Started by user Alex

StartBuildTestEnd

Steps Test

✓ mvn test — Shell Script 9s

```
1 [simple-java-maven-app] Running shell script
2 + mvn test
3 [INFO] Scanning for projects...
4 [INFO]
5 [INFO] -----
6 [INFO] Building my-app 1.0-SNAPSHOT
7 [INFO] -----
8 [INFO]
9 [INFO] --- maven-resources-plugin:2.6:resources (default-resources) @ my-app ---
10 [WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
11 [INFO] skip non existing resourceDirectory /var/jenkins_home/workspace/simple-java-maven-app/src/main/resources
12 [INFO]
13 [INFO] --- maven-compiler-plugin:3.1:compile (default-compile) @ my-app ---
14 [INFO] Nothing to compile - all classes are up to date
15 [INFO]
16 [INFO] --- maven-resources-plugin:2.6:testResources (default-testResources) @ my-app ---
17 [WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
18 [INFO] skip non existing resourceDirectory /var/jenkins_home/workspace/simple-java-maven-app/src/test/resources
```

✓ simple-java-maven-app 3

PipelineChangesTestsArtifactsLogout

Branch: — 1m 3s Changes by gilesgas  
Commit: — a few seconds ago Started by user Alex

StartBuildTestDeliverEnd

Steps Deliver

✓ > ./jenkins/scripts/deliver.sh — Shell Script 43s

```
10 [INFO] -----
11 [INFO] Building my-app 1.0-SNAPSHOT
12 [INFO] -----
13 [INFO]
14 [INFO] --- maven-jar-plugin:3.0.2:jar (default-cli) @ my-app ---
15 [INFO]
16 [INFO] --- maven-install-plugin:2.4:install (default-cli) @ my-app ---
17 [INFO] Installing /var/jenkins_home/workspace/simple-java-maven-app/target/my-app-1.0-SNAPSHOT.jar to
18 [INFO] /root/.m2/repository/com/mycompany/app/my-app/1.0-SNAPSHOT/my-app-1.0-SNAPSHOT.jar
19 [INFO] Installing /var/jenkins_home/workspace/simple-java-maven-app/pom.xml to /root/.m2/repository/com/mycompany/app/my-app/1.0-
20 [INFO] SNAPSHOT/my-app-1.0-SNAPSHOT.pom
21 [INFO] -----
22 [INFO] Building my-app 1.0-SNAPSHOT
23 [INFO] -----
24 [INFO] --- maven-help-plugin:2.2:evaluate (default-cli) @ my-app ---
25 [INFO] No artifact parameter specified, using 'com.mycompany.app:my-app:jar:1.0-SNAPSHOT' as project.
26 [INFO]
27 my-app
28 [INFO] -----
29 [INFO] BUILD SUCCESS
30 [INFO] -----
31 [INFO] Total time: 1.870 s
32 [INFO] Finished at: 2017-10-01T13:20:22Z
33 [INFO] Final Memory: 18M/96M
34 [INFO] -----
35 + set +x
36 The following complex command extracts the value of the <name/> element
37 within <project/> of your Java/Maven projects "pom.xml" file.
38 ++ mvn help:evaluate -Dexpression=project.name
39 ++ grep '^{\['
40 + NAME=my-app
41 + set +x
42 The following complex command behaves similarly to the previous one but
43 extracts the value of the <version/> element within <project/> instead.
44 ++ mvn help:evaluate -Dexpression=project.version
45 ++ grep '^{\['
46 + VERSION=1.0-SNAPSHOT
47 + set +x
48 The following command runs and outputs the execution of your Java
49 application (which Jenkins built using Maven) to the Jenkins UI.
50 + java -jar target/my-app-1.0-SNAPSHOT.jar
51 Hello World!
```

Jenkins

PipelinesAdministration

simple-java-maven-app

☆⚙

ActivityBranchesPull Requests

Run

STATUS	RUN	COMMIT	MESSAGE	DURATION	COMPLETED
✓	3	—	Add 'Deliver' stage	1m 3s	5 minutes ago
✓	2	—	Add 'Test' stage	25s	10 minutes ago
✓	1	—	Started by user Alex	2m 49s	25 minutes ago

- e2b50bd - (no branch) - 19th September 2017 10:42 PM

---