

Deploying ELK Stack on Docker Container

```

MINGW64/c:/Users/Sajal

```

```

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

```


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

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

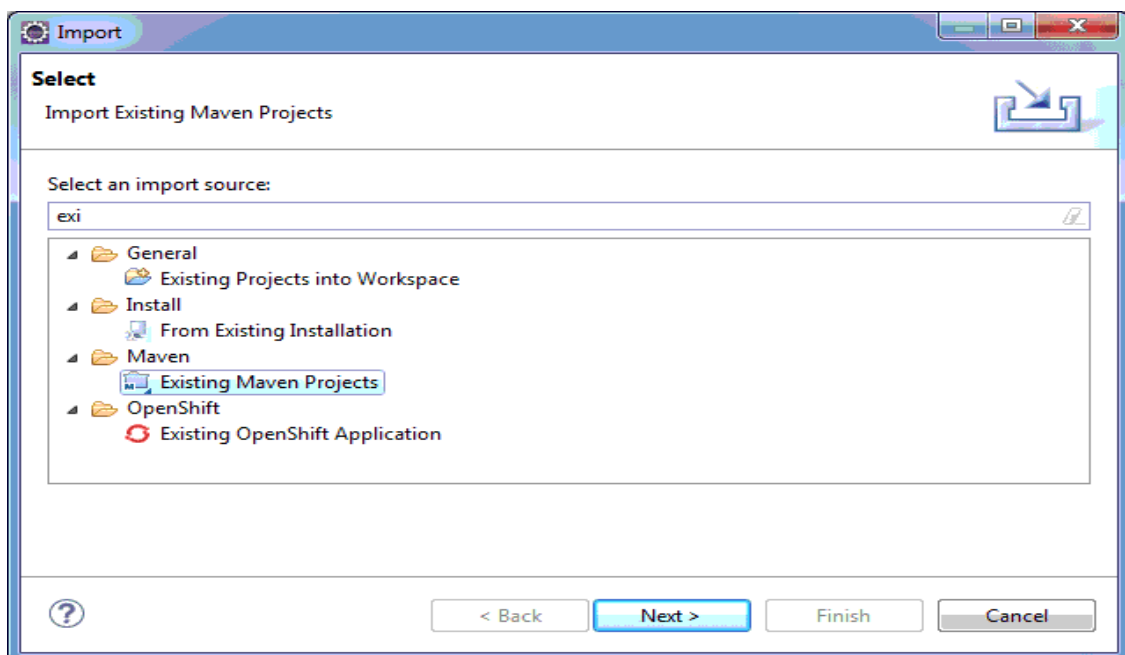
JPA

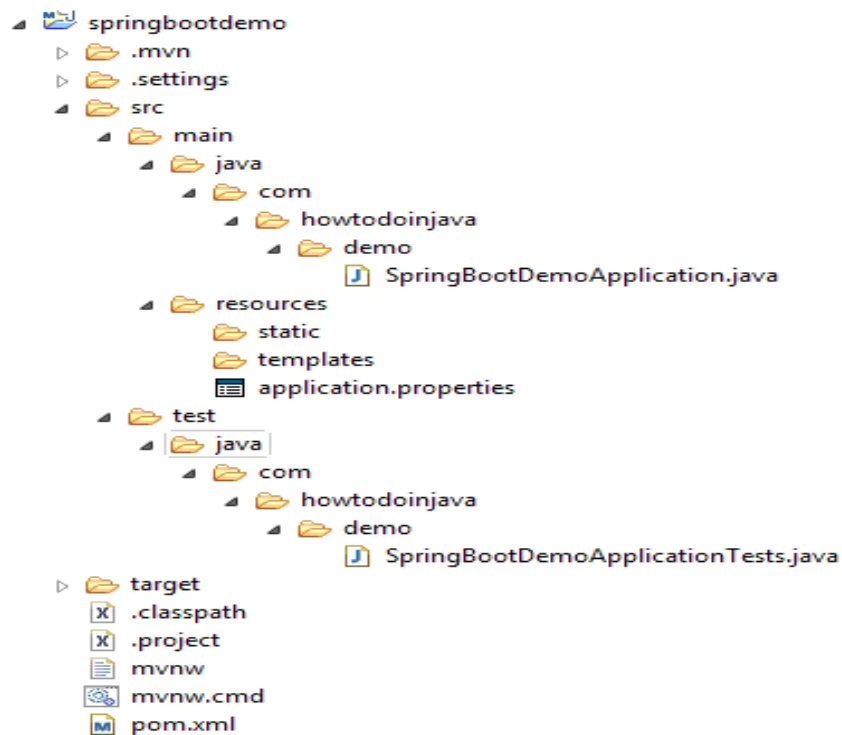
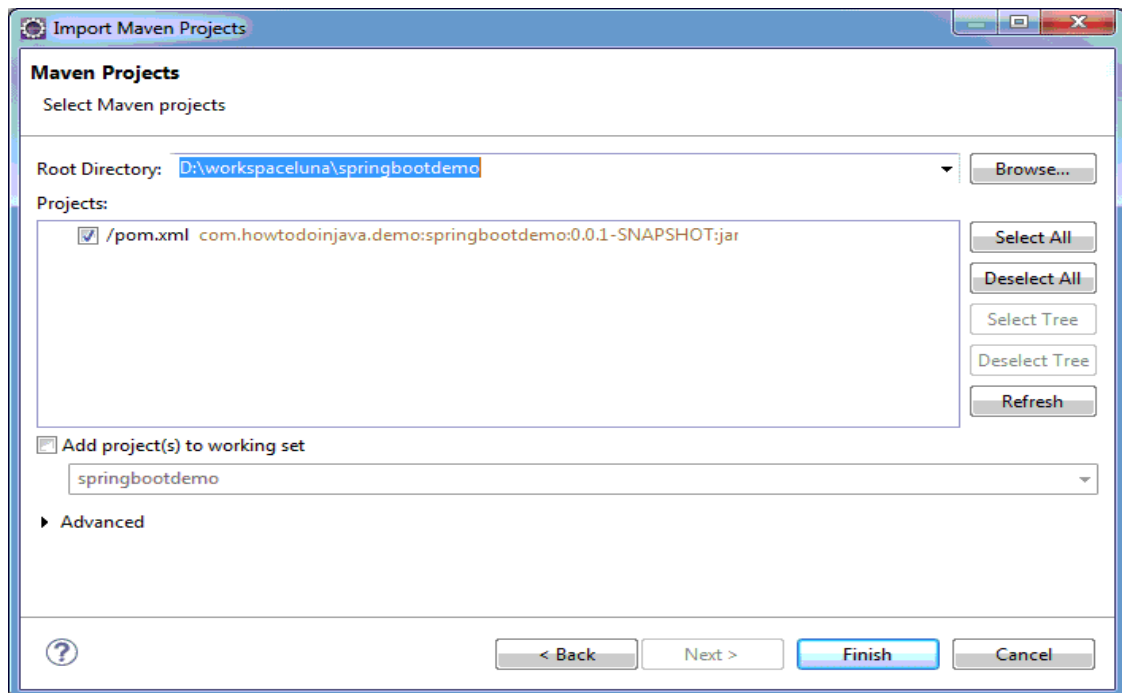
Security

HSQLDB

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

Generate Project alt + ⌘





Simple REST Client

Request

URL:

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

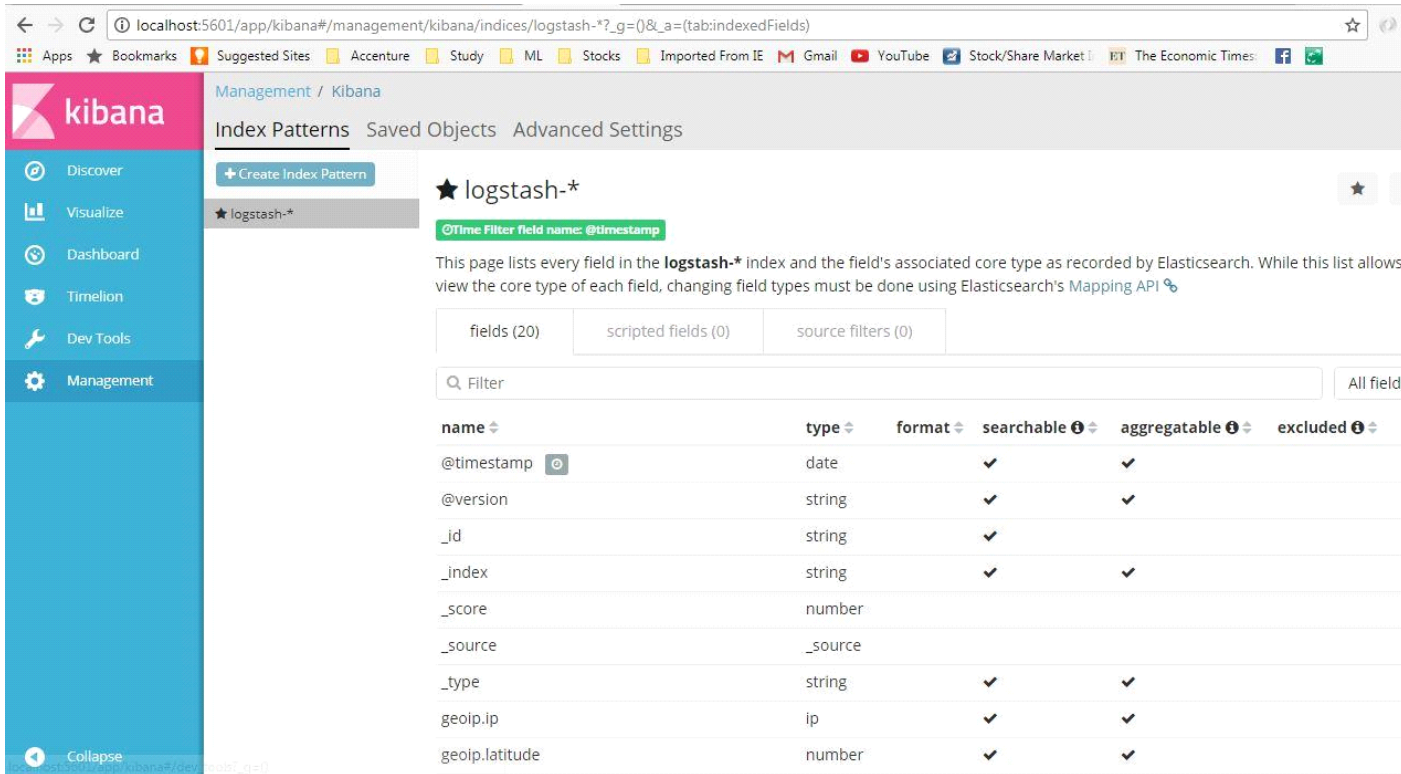
Headers:

Response

Status: 200 OK

Headers: **Date:** Tue, 20 Sep 2016 17:13:22 GMT
Transfer-Encoding: chunked
Content-Type: application/json;charset=UTF-8

Data: [{"id":1,"firstName":"lokesh","lastName":"gupta","email":"howtodoinjava@gmail.com"}]



The screenshot shows the Kibana Management interface for the `logstash-*` index pattern. The left sidebar contains navigation links: Discover, Visualize, Dashboard, Timelion, Dev Tools, and Management (selected). The main content area shows the index pattern `logstash-*` with a green filter field `@timestamp`. Below this, a table lists the fields in the index, their core types, and their properties.

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

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 b
eans [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:

2f064d3663814887964b682940572567

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
```


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: sha256:400fb45cfcdcf492ff91319ea0a58f570172f8cf65f40b9b14931f44a6c1417
30 Status: Downloaded newer image for maven:3-alpine
```

simple-java-maven-app 1

Pipeline

Changes

Tests

Artifacts

Logout

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 kB at 1.5 kB/s)

10

[INFO] Downloading: <https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/22/maven-plugins-22.pom>

11

[INFO] Downloaded: <https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-plugins/22/maven-plugins-22.pom> (13 kB at 22 kB/s)

12

[INFO] Downloading: <https://repo.maven.apache.org/maven2/org/apache/maven/maven-parent/21/maven-parent-21.pom>

Jenkins

Pipelines

Administration

Logout

simple-java-maven-app

☆

⚙

Activity

Branches

Pull 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

Pipeline

Changes

Tests

Artifacts

↺

⚙️

🔗

Logout

✕

Branch: —

🕒 25s

Changes by gillesgas

Commit: —

🕒 a few seconds ago

Started by user Alex

Start

Build

Test

End

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

PipelineChangesTestsArtifacts🔄⚙️📄Logout✕

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!
```

 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