

- Set up AWS EC2 instance

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP v4 DNS	Public IP v4	Elastic IP	IPv6 IP v4	Hosted	Security group name	Key name	Link
docker-server	i-0f8b0c3b0b0b0b0b0	Running	t3.medium	OK	No alarm	us-east-2	ec2-51-144-238-23.us-east-2.compute.amazonaws.com	51.144.238.23	-	-	disabled	Search console	docker-server-key	20

- Ssh to EC2 instance

```

22/12/2021 08:37:55 ssh -i "docker-server-nv.pem" ubuntu@ec2-3-144-238-23.us-east-2.compute.amazonaws.com
Welcome to Ubuntu 20.04.3 LTS (GNU/Linux 5.11.0-1022-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

System information as of Wed Dec 22 05:38:10 UTC 2021

Last login: Wed Dec 22 04:40:28 2021 from 100.35.31.249
ubuntu@ip-172-31-40-78:~$

```

- Install all dependencies

- Docker

```

ubuntu@ip-172-31-40-78:~$ sudo docker --version
Docker version 20.10.12, build e91ed57
ubuntu@ip-172-31-40-78:~$

```

- Java jdk

```

ubuntu@ip-172-31-40-78:~$ java --version
openjdk 11.0.13 2021-10-19
OpenJDK Runtime Environment (build 11.0.13+8-Ubuntu-0ubuntu1.20.04)
OpenJDK 64-Bit Server VM (build 11.0.13+8-Ubuntu-0ubuntu1.20.04, mixed mode, sharing)
ubuntu@ip-172-31-40-78:~$

```

- Maven

```

ubuntu@ip-172-31-40-78:~$ mvn --version
Apache Maven 3.6.3
Maven home: /usr/share/maven
Java version: 11.0.13, vendor: Ubuntu, runtime: /usr/lib/jvm/java-11-openjdk-amd64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "5.11.0-1022-aws", arch: "amd64", family: "unix"
ubuntu@ip-172-31-40-78:~$

```

- Jenkins

```

ubuntu@ip-172-31-40-78:~$ sudo service jenkins status
● jenkins.service - LSB: Start Jenkins at boot time
   Loaded: loaded (/etc/init.d/jenkins; generated)
   Active: active (exited) since Wed 2021-12-22 04:39:31 UTC; 1h 1min ago
   Docs: man:systemd-sysv-generator(8)
   Process: 452 ExecStart=/etc/init.d/jenkins start (code=exited, status=0/SUCCESS)

Dec 22 04:39:28 ip-172-31-40-78 systemd[1]: Starting LSB: Start Jenkins at boot time...
Dec 22 04:39:29 ip-172-31-40-78 jenkins[452]: Correct java version found
Dec 22 04:39:29 ip-172-31-40-78 jenkins[452]: * Starting Jenkins Automation Server jenkins
Dec 22 04:39:30 ip-172-31-40-78 su[665]: (to jenkins) root on none
Dec 22 04:39:30 ip-172-31-40-78 su[665]: pam_unix(su-l:session): session opened for user jenkins by (uid=0)
Dec 22 04:39:30 ip-172-31-40-78 su[665]: pam_unix(su-l:session): session closed for user jenkins
Dec 22 04:39:31 ip-172-31-40-78 jenkins[452]: ...done.
Dec 22 04:39:31 ip-172-31-40-78 systemd[1]: Started LSB: Start Jenkins at boot time.
ubuntu@ip-172-31-40-78:~$

```

- Set up Jenkins pipeline

- Run the pipeline

Stage	Declarative: Checkout SCM	Maven Compile	Success	Maven Build	Docker Build	Docker Deploy
Average stage times	517ms	10s	4s	9s	1s	598ms
Average full run time: ~31s						

Permalinks

- Last build (#1), 40 min ago
- Last stable build (#1), 40 min ago
- Last successful build (#1), 40 min ago
- Last completed build (#1), 40 min ago

- Verify the web-service is up and running