

# TASK-5

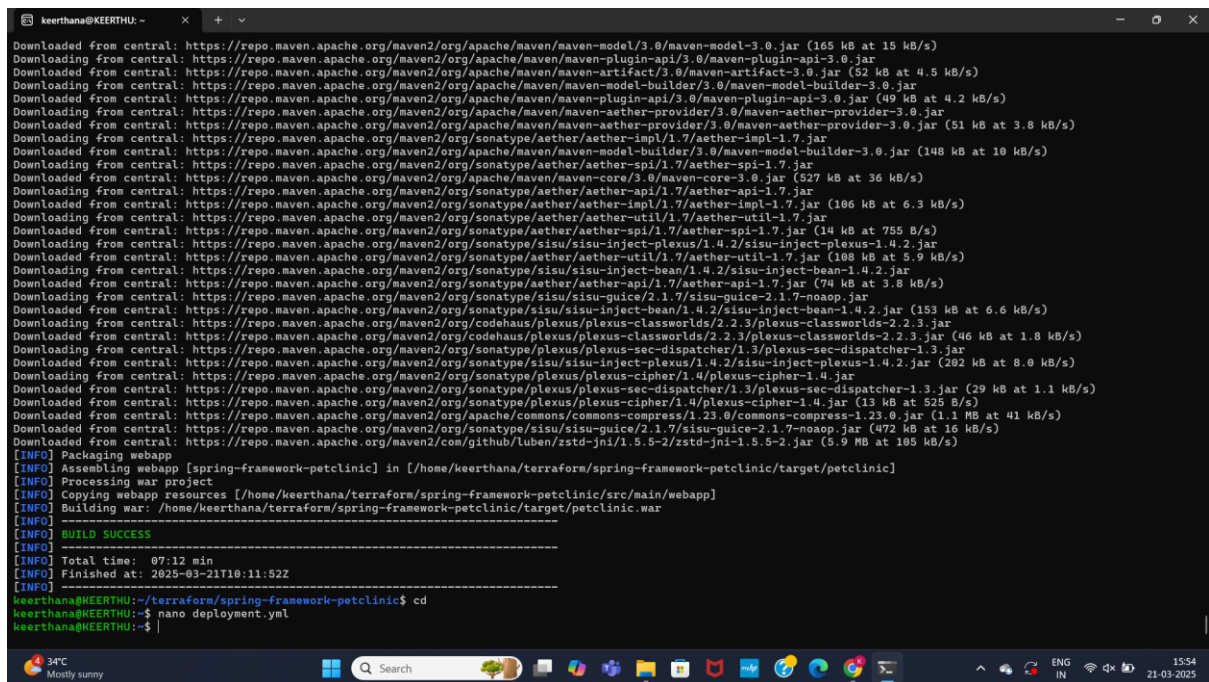
```
keerthana@KEERTHU: ~/terra
selections it made above. Include this file in your version control repository
so that Terraform can guarantee to make the same selections by default when
you run "terraform init" in the future.

Terraform has been successfully initialized!

You may now begin working with Terraform. Try running "terraform plan" to see
any changes that are required for your infrastructure. All Terraform commands
should now work.

If you ever set or change modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
keerthana@KEERTHU:~/terraform$ nano local.tf
keerthana@KEERTHU:~/terraform$ git clone https://github.com/kannancloud001/spring-framework-petclinic.git
Cloning into 'spring-framework-petclinic'...
remote: Enumerating objects: 6698, done.
remote: Counting objects: 100% (1049/1049), done.
remote: Compressing objects: 100% (80/80), done.
remote: Total 6698 (delta 998), reused 969 (delta 969), pack-reused 5649 (from 1)
Receiving objects: 100% (6698/6698), 1.52 MiB | 341.00 KiB/s, done.
Resolving deltas: 100% (3326/3326), done.
keerthana@KEERTHU:~/terraform$ cd 'spring-framework-petclinic'
> cd 'spring-framework-petclinic'
keerthana@KEERTHU:~/terraform$ cd spring-framework-petclinic
keerthana@KEERTHU:~/terraform/spring-framework-petclinic$ ls
Jenkinsfile LICENSE.txt dockerfile mvnw mvnw.cmd pom.xml readme.md src
keerthana@KEERTHU:~/terraform/spring-framework-petclinic$ nano Jenkinsfile
[sudo] password for keerthana:
keerthana@KEERTHU:~/terraform/spring-framework-petclinic$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
keerthana2005/java-maven   latest             7e8c7614c96e       5 minutes ago      563MB
keerthana2005/ecommerce   latest             87332b36a431       29 hours ago       195MB
tomcat                latest             88b0f1cee84c       2 weeks ago        519MB
nginx                 latest             53a18edff809       6 weeks ago        192MB
hello-world           latest             74cc54e27dc4       8 weeks ago        10.1kB
gcr.io/k8s-minikube/kicbase v0.0.46            e72c4cbe9b29       2 months ago       1.31GB
keerthana@KEERTHU:~/terraform/spring-framework-petclinic$ docker run -d -p 8090:8080 keerthana2005/java-maven
b77abcf21024f8086706c992adb5c2d27d10964f6a-b0ec011ae68d9317b32be
keerthana@KEERTHU:~/terraform/spring-framework-petclinic$
```

```
Dashboard > javamaven > #1
e231914ca483: Pull complete
Digest: sha256:1374a565d5122fdb42807f3a5f2d4fcc245a5e15420ff5bb5123afedc8ef769d
Status: Downloaded newer image for tomcat:latest
--> 88b0f1cee84c
Step 2/4 : COPY target/*.war /usr/local/tomcat/webapps/ROOT.war
--> 43297ff09d13
Step 3/4 : EXPOSE 8080
--> Running in 0ae4fcf0ee0
--> Removed intermediate container 0ae4fcf0ee0
--> 869831fb5fa4
Step 4/4 : CMD ["catalina.sh", "run"]
--> Running in f4fa18e64674
--> Removed intermediate container f4fa18e64674
--> 7e8c7614c96e
Successfully built 7e8c7614c96e
Successfully tagged keerthana2005/java-maven:latest
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```



```
keerthana@KEERTHU: ~$ sha256:5d4660d0a9e9f9a03ab7c4a134c5a0c8d39f649970092b17ebe6a619a9b838f5 1398 / 1398 1.4s
=> sha256:91e6cc55403ad09f9aeca15ab95bf547ad0b78be2b665c486beef7161150987d 2.28kB / 2.28kB 1.7s
=> sha256:dc1c5ea3c7d221c35f9dc0e8a4fc8a2c497959281e63f66f6067f6c2c319b 158B / 158B 1.3s
=> sha256:a10b6847b9f1913a9d34980e0354787e49b068cd8dd478c70bab854c6cfd1660 157.59MB / 157.59MB 48.0s
=> sha256:8dbbcbca9dc7b3eecc20b35797f66551a17f035a85f028fc99a0d5dd268aa8 22.94MB / 22.94MB 15.4s
=> sha256:5a7813e071bfad18aaa5ca8318be4824a9b6297b3240f2cc84c1db6f4113040 29.75MB / 29.75MB 25.6s
=> extracting sha256:5a7813e071bfad18aaa5ca8318be4824a9b6297b3240f2cc84c1db6f4113040 0.7s
=> extracting sha256:8dbbcbca9dc7b3eecc20b35797f66551a17f035a85f028fc99a0d5dd268aa8 0.6s
=> extracting sha256:a10b6847b9f1913a9d34980e0354787e49b068cd8dd478c70bab854c6cfd1660 1.5s
=> extracting sha256:dc1c5ea3c7d221c35f9dc0e8a4fc8a2c497959281e63f66f6067f6c2c319b 0.8s
=> extracting sha256:91e6cc55403ad09f9aeca15ab95bf547ad0b78be2b665c486beef7161150987d 0.8s
=> extracting sha256:5d4660d0a9e9f9a03ab7c4a134c5a0c8d39f649970092b17ebe6a619a9b838f5 0.8s
=> extracting sha256:444b780ef54061cfa02571ae8d09a0dc1e8c0b5577484a6d75e68dc38e8acc1 0.8s
=> extracting sha256:e231914ea483a93d4915d672a47d06c2022215b7ce5de04ed3bb7214e89c814f 3.2s
=> [2/2] COPY target/*.war /usr/local/tomcat/webapps/ROOT.war 0.3s
=> exporting to image 1.5s
=> exporting layers 1.2s
=> exporting manifest sha256:3e2956b9ce3930c82cd49ae89582a360a9dababeba89cd12a5f56591fd797250 0.0s
=> exporting config sha256:0c4cc016a63713b323e98326208a5fd850112217d70049a2d2f13e2778f8413f 0.0s
=> exporting attestation manifest sha256:521db5c1b64ae5e94088462b0e8b59568f828689543d0526611d3ccc209489e3 0.0s
=> exporting manifest list sha256:d47fad4963651d37bbf3ff7d5e17ebc793607324cb740fff9573aca482e2e200 0.0s
=> naming to docker.io/library/tomcat:latest 0.0s
=> unpacking to docker.io/library/tomcat:latest 0.2s
keerthana@KEERTHU:~/terraform/spring-framework-petclinic$ docker images
REPOSITORY TAG IMAGE ID CREATED SIZE
tomcat latest d47fad496365 28 seconds ago 872MB
keerthana2005/ecommmerce latest 6a46250fd40f 2 days ago 282MB
keerthana2005/task2 3 fce22d77d1a2 2 days ago 220MB
keerthana2005/keerthana 2 d53b0fc6fb34 2 days ago 220MB
keerthana2005/project1 4 776d1aa248e0 2 days ago 220MB
gcr.io/k8s-minikube/kicbase v0.0.46 cef9f3c2e399 2 months ago 1.86GB
gcr.io/k8s-minikube/kicbase <none> fd2d445ddcc3 2 months ago 1.86GB
keerthana@KEERTHU:~/terraform/spring-framework-petclinic$ cd
keerthana@KEERTHU:~$ docker run -d -p 8080:8080 tomcat
3c91103f6eeb245fee8578b7682d89f905fa50e125d56865f4622bc2a49fc83a
keerthana@KEERTHU:~$ nano deployment.yml
keerthana@KEERTHU:~$ nano deployment.yml
keerthana@KEERTHU:~$ nano deployment.yml
keerthana@KEERTHU:~$ kubectl create -f deployment.yml
error: error validating "deployment.yml": error validating data: failed to download openapi: Get "https://127.0.0.1:51651/openapi/v2?timeout=32s": dial tcp 127.0.0.1:51651: connect: connection refused; if you choose to ignore these errors, turn validation off with --validate=false
```

```
keerthana@KEERTHU: ~$ Using the docker driver based on existing profile
Starting "minikube" primary control-plane node in "minikube" cluster
Pulling base image v0.0.46 ...
Restarting existing docker container for "minikube" ...
Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
Verifying Kubernetes components...
* Using image gcr.io/k8s-minikube/storage-provisioner:v5
Enabled addons: storage-provisioner, default-storageclass
Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
keerthana@KEERTHU:~$ kubectl create -f deployment.yml
deployment.apps/tomcat created
keerthana@KEERTHU:~$ kubectl get pods
NAME READY STATUS RESTARTS AGE
ginx-deployment-5db9468-7z42z 1/1 Running 0 40h
ginx-deployment-5db9468-894z2 1/1 Running 0 9m55s
ginx-deployment-5db9468-gmsfx 1/1 Running 0 40h
ginx-deployment-5db9468-nvhtl 1/1 Running 0 40h
ginx-deployment-5db9468-qflvk 1/1 Running 0 10m
eact-e-commerce-6c9b47d7cf-jxbj7 1/1 Running 2 (11m ago) 42h
eact-e-commerce-6c9b47d7cf-nqrwn 1/1 Running 2 (11m ago) 42h
omcat-845c6b969d-cbgzq 1/1 Running 0 10m
omcat-845c6b969d-m6zvq 1/1 Running 0 10m
omcat-845c6b969d-sfbqc 1/1 Running 0 10m
keerthana@KEERTHU:~$ kubectl expose deployment java-maven --port=8080 --type=NodePort
error from server (NotFound): deployments.apps "java-maven" not found
keerthana@KEERTHU:~$ kubectl expose deployment java-tomcat --port=8080 --type=NodePort
error from server (NotFound): deployments.apps "java-tomcat" not found
keerthana@KEERTHU:~$ kubectl expose deployment tomcat --port=8080 --type=NodePort
service/tomcat exposed
keerthana@KEERTHU:~$ minikube service tomcat
NAMESPACE NAME TARGET PORT URL
default tomcat 8080 http://192.168.58.2:31806
Starting tunnel for service tomcat.
NAMESPACE NAME TARGET PORT URL
default tomcat 8080 http://127.0.0.1:39045
```