

TASK 5

```
Activities Terminal Fri 15:27 jaha@ubuntu:~/spring-framework-petclinic

File Edit View Search Terminal Help
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-settings-builder/3.0/maven-settings-builder-3.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/commons/commons-compress/1.23.0/commons-compress-1.23.0.jar (1.1 MB at 1.1 MB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-repository-metadata/3.0/maven-repository-metadata-3.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-artifact/3.0/maven-artifact-3.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-core/3.0/maven-core-3.0.jar (527 kB at 379 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin-api/3.0/maven-plugin-api-3.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-repository-metadata/3.0/maven-repository-metadata-3.0.jar (30 kB at 21 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-model-builder/3.0/maven-model-builder-3.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-model/3.0/maven-model-3.0.jar (165 kB at 115 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-aether-provider/3.0/maven-aether-provider-3.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/sonatype/aether/aether-spi/1.7/aether-spi-1.7.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/sonatype/aether/aether-impl/1.7/aether-impl-1.7.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin-api/3.0/maven-plugin-api-3.0.jar (49 kB at 24 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-model-builder/3.0/maven-model-builder-3.0.jar (148 kB at 70 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/sonatype/aether/aether-api/1.7/aether-api-1.7.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-aether-provider/3.0/maven-aether-provider-3.0.jar (51 kB at 24 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/sonatype/aether/aether-util/1.7/aether-util-1.7.jar
Downloaded from central: https://repo.maven.apache.org/maven2/com/github/luben/zstd-jni/1.5.5-2/zstd-jni-1.5.5-2.jar (5.9 MB at 2.7 MB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/sonatype/sisu/sisu-inject-plexus/1.4.2/sisu-inject-plexus-1.4.2.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/sonatype/aether/aether-impl/1.7/aether-impl-1.7.jar (106 kB at 48 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/sonatype/sisu/sisu-inject-bean/1.4.2/sisu-inject-bean-1.4.2.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/sonatype/aether/aether-spi/1.7/aether-spi-1.7.jar (14 kB at 6.2 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/sonatype/aether/aether-api/1.7/aether-api-1.7.jar (74 kB at 32 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-classworlds/2.2.3/plexus-classworlds-2.2.3.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/sonatype/aether/aether-util/1.7/aether-util-1.7.jar (108 kB at 47 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/sonatype/plexus/plexus-sec-dispatcher/1.3/plexus-sec-dispatcher-1.3.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/sonatype/sisu/sisu-inject-bean/1.4.2/sisu-inject-bean-1.4.2.jar (153 kB at 62 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/sonatype/plexus/plexus-cipher/1.4/plexus-cipher-1.4.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-classworlds/2.2.3/plexus-classworlds-2.2.3.jar (46 kB at 18 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/sonatype/sisu/sisu-inject-plexus/1.4.2/sisu-inject-plexus-1.4.2.jar (202 kB at 80 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/sonatype/sisu/sisu-guice/2.1.7/sisu-guice-2.1.7-noaop.jar (472 kB at 188 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/sonatype/plexus/plexus-sec-dispatcher/1.3/plexus-sec-dispatcher-1.3.jar (29 kB at 11 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/sonatype/plexus/plexus-cipher/1.4/plexus-cipher-1.4.jar (13 kB at 5.2 kB/s)
[INFO] Packaging webapp
[INFO] Assembling webapp [spring-framework-petclinic] in [/home/jaha/spring-framework-petclinic/target/petclinic]
[INFO] Processing war project
[INFO] Copying webapp resources [/home/jaha/spring-framework-petclinic/src/main/webapp]
[INFO] Building war: /home/jaha/spring-framework-petclinic/target/petclinic.war
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 01:48 min
[INFO] Finished at: 2025-03-21T15:27:26+05:30
[INFO] -----
jaha@ubuntu:~/spring-framework-petclinic
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Activities Terminal Fri 16:03 jaha@ubuntu:~/spring-framework-petclinic/target

File Edit View Search Terminal Help
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-settings-builder/3.0/maven-settings-builder-3.0.jar (38 kB at 27 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-artifact/3.0/maven-artifact-3.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-core/3.0/maven-core-3.0.jar (527 kB at 379 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin-api/3.0/maven-plugin-api-3.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-repository-metadata/3.0/maven-repository-metadata-3.0.jar (30 kB at 21 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-model-builder/3.0/maven-model-builder-3.0.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-model/3.0/maven-model-3.0.jar (165 kB at 115 kB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-aether-provider/3.0/maven-aether-provider-3.0.jar
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Downloaded from central: https://repo.maven.apache.org/maven2/org/sonatype/aether/aether-impl/1.7/aether-impl-1.7.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/maven-plugin-api/3.0/maven-plugin-api-3.0.jar (49 kB at 24 kB/s)
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Downloaded from central: https://repo.maven.apache.org/maven2/org/sonatype/plexus/plexus-sec-dispatcher/1.3/plexus-sec-dispatcher-1.3.jar
Downloaded from central: https://repo.maven.apache.org/maven2/org/sonatype/sisu/sisu-inject-bean/1.4.2/sisu-inject-bean-1.4.2.jar (153 kB at 62 kB/s)
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Downloaded from central: https://repo.maven.apache.org/maven2/org/sonatype/plexus/plexus-sec-dispatcher/1.3/plexus-sec-dispatcher-1.3.jar (29 kB at 11 kB/s)
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[INFO] Packaging webapp
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[INFO] Processing war project
[INFO] Copying webapp resources [/home/jaha/spring-framework-petclinic/src/main/webapp]
[INFO] Building war: /home/jaha/spring-framework-petclinic/target/petclinic.war
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 01:48 min
[INFO] Finished at: 2025-03-21T15:27:26+05:30
[INFO] -----
jaha@ubuntu:~/spring-framework-petclinic$ cd target
jaha@ubuntu:~/spring-framework-petclinic/target$ ls
classes generated-sources generated-test-sources jacoco.exec maven-archiver maven-status petclinic petclinic.war site surefire-reports test-classes
jaha@ubuntu:~/spring-framework-petclinic/target$
```

```
Activities Terminal Sat 10:04 jaha@ubuntu:~  
See 'snap info <snappnames>' for additional versions.  
jaha@ubuntu:~$ docker run -d -p 8070:8077 5b6a51adee38  
773ba232fe0dad9da8a13f2bd51f35abf9876dccc26e451354ebb76f9b01c7ff  
jaha@ubuntu:~$ docker run -d -p 8070 5b6a51adee38  
9993ea9d6e22e07cd48ba55127d1c1d990918c3b0ea855fed09a268d52f4f8  
jaha@ubuntu:~$ docker run -d -p 8070:80 5b6a51adee38  
5b07af074b3edf6eb46ccd391eac901b09b8a543f90b58ab2043b38722835  
docker: Error response from daemon: driver failed programming external connectivity on endpoint reverent_shtern (05b887b5944b912eb7c7f48f47d3a12a23aba49cd7b4b6ae3239ce339ea305f): Bind for 0.0.0.0:8070 failed: port is already allocated.  
jaha@ubuntu:~$ ^C  
jaha@ubuntu:~$ sudo lsuf -i :8070  
[sudo] password for jaha:  
COMMAND PID USER FD TYPE DEVICE SIZE/OFF NODE NAME  
docker-pr 4782 root 4u IPv4 52073 0t0 TCP *:8070 (LISTEN)  
docker-pr 4790 root 4u IPv6 52595 0t0 TCP *:8070 (LISTEN)  
jaha@ubuntu:~$ sudo kill -9 <PID>  
bash: syntax error near unexpected token 'newline'  
jaha@ubuntu:~$ sudo kill -9 4782  
jaha@ubuntu:~$ sudo kill -9 4790  
jaha@ubuntu:~$ docker run -d -p 8070:80 5b6a51adee38  
9c027a6c1b8d32a1110559f47b23a391da5cf08d007ec1360bc4e1f64fab40cc  
docker: Error response from daemon: driver failed programming external connectivity on endpoint interesting_turing (f9a118afe6ddbc112c48441d91dd4b2889a44957bde5b37b7ad429bdf450): Bind for 0.0.0.0:8070 failed: port is already allocated.  
jaha@ubuntu:~$ docker run -d -p 8070:80 5b6a51adee38  
b5de4bc98f095782801c9164562f17562326177bc79483c88e9fcdcf5280e  
docker: Error response from daemon: driver failed programming external connectivity on endpoint kind_poltras (d601ab3c26c9fa57929a37aacaac29a79ef006e58e70abb62114847439e7fe81): Bind for 0.0.0.0:8070 failed: port is already allocated.  
jaha@ubuntu:~$ docker ps  
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  
9993ea9d6e22 5b6a51adee38 "catalina.sh run" 2 minutes ago Up 2 minutes 8080/tcp, 0.0.0.0:32768->8070/tcp, :::32768->8070/tcp sweet_golick  
773ba232fe0d 5b6a51adee38 "catalina.sh run" 3 minutes ago Up 3 minutes 8080/tcp, 0.0.0.0:8070->8077/tcp, :::8070->8077/tcp dazzling_mendel  
jaha@ubuntu:~$ docker stop <CONTAINER_ID>  
bash: syntax error near unexpected token 'newline'  
jaha@ubuntu:~$ docker rm <CONTAINER_ID>  
bash: syntax error near unexpected token 'newline'  
jaha@ubuntu:~$ docker run -d -p 8070:80 5b6a51adee38  
998709d979a309ffdf051eb0618cef9d1c85b337ffc3ee8a536aa552105cb  
docker: Error response from daemon: driver failed programming external connectivity on endpoint cool_austin (9e771c38081fdc9a5272f1fe7b3df65fa9aced2c8e3483e9f820198ee6f48): Bind for 0.0.0.0:8070 failed: port is already allocated.  
jaha@ubuntu:~$ docker run -d -p 8081:80 5b6a51adee38  
7eae5176d026b48822d6d54538ce3aa56924b61525e1c16f8209fa9e197d7601  
jaha@ubuntu:~$ nano deployment.yml  
Use "fg" to return to nano.  
[!]- Stopped nano deployment.yml  
jaha@ubuntu:~$ nano deployment.yml  
jaha@ubuntu:~$
```

```
Activities Terminal Sat 11:08 jaha@ubuntu:~  
jaha@ubuntu:~$ sudo lsuf -i :8070  
[sudo] password for jaha:  
COMMAND PID USER FD TYPE DEVICE SIZE/OFF NODE NAME  
docker-pr 4782 root 4u IPv4 52073 0t0 TCP *:8070 (LISTEN)  
docker-pr 4790 root 4u IPv6 52595 0t0 TCP *:8070 (LISTEN)  
jaha@ubuntu:~$ sudo kill -9 <PID>  
bash: syntax error near unexpected token 'newline'  
jaha@ubuntu:~$ sudo kill -9 4782  
jaha@ubuntu:~$ sudo kill -9 4790  
jaha@ubuntu:~$ docker run -d -p 8070:80 5b6a51adee38  
9c027a6c1b8d32a1110559f47b23a391da5cf08d007ec1360bc4e1f64fab40cc  
docker: Error response from daemon: driver failed programming external connectivity on endpoint interesting_turing (f9a118afe6ddbc112c48441d91dd4b2889a44957bde5b37b7ad429bdf450): Bind for 0.0.0.0:8070 failed: port is already allocated.  
jaha@ubuntu:~$ docker run -d -p 8070:80 5b6a51adee38  
b5de4bc98f095782801c9164562f17562326177bc79483c88e9fcdcf5280e  
docker: Error response from daemon: driver failed programming external connectivity on endpoint kind_poltras (d601ab3c26c9fa57929a37aacaac29a79ef006e58e70abb62114847439e7fe81): Bind for 0.0.0.0:8070 failed: port is already allocated.  
jaha@ubuntu:~$ docker ps  
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  
9993ea9d6e22 5b6a51adee38 "catalina.sh run" 2 minutes ago Up 2 minutes 8080/tcp, 0.0.0.0:32768->8070/tcp, :::32768->8070/tcp sweet_golick  
773ba232fe0d 5b6a51adee38 "catalina.sh run" 3 minutes ago Up 3 minutes 8080/tcp, 0.0.0.0:8070->8077/tcp, :::8070->8077/tcp dazzling_mendel  
jaha@ubuntu:~$ docker stop <CONTAINER_ID>  
bash: syntax error near unexpected token 'newline'  
jaha@ubuntu:~$ docker rm <CONTAINER_ID>  
bash: syntax error near unexpected token 'newline'  
jaha@ubuntu:~$ docker run -d -p 8070:80 5b6a51adee38  
998709d979a309ffdf051eb0618cef9d1c85b337ffc3ee8a536aa552105cb  
docker: Error response from daemon: driver failed programming external connectivity on endpoint cool_austin (9e771c38081fdc9a5272f1fe7b3df65fa9aced2c8e3483e9f820198ee6f48): Bind for 0.0.0.0:8070 failed: port is already allocated.  
jaha@ubuntu:~$ docker run -d -p 8081:80 5b6a51adee38  
7eae5176d026b48822d6d54538ce3aa56924b61525e1c16f8209fa9e197d7601  
jaha@ubuntu:~$ nano deployment.yml  
Use "fg" to return to nano.  
[!]- Stopped nano deployment.yml  
jaha@ubuntu:~$ nano deployment.yml  
jaha@ubuntu:~$ kubectl create -f deployment.yml  
Unable to connect to the server: dial tcp 192.168.49.2:8443: connect: no route to host  
jaha@ubuntu:~$ minikube start  
minikube v1.35.0 on Ubuntu 18.04 (vbox/amd64)  
* Using the docker driver based on existing profile  
The requested memory allocation of 2200MiB does not leave room for system overhead (total system memory: 2999MiB). You may face stability issues.  
Suggestion: Start minikube with less memory allocated: 'minikube start --memory=2200mb'  
Starting "minikube" primary control-plane node in "minikube" cluster  
Pulling base image v0.0.46 ...  
Restarting existing docker container for "minikube" ...  
Falling to connect to https://registry.k8s.io/ from both inside the minikube container and host machine
```



```
Activities Terminal Sat 11:08 Jaha@ubuntu:~  
jaha@ubuntu:~$ sudo ls -l :8070  
[sudo] password for jaha:  
COMMAND PID USER FD TYPE DEVICE SIZE/OFF NODE NAME  
docker-pr 4782 root 4u IPv4 52073 0t0 TCP *:8070 (LISTEN)  
docker-pr 4790 root 4u IPv6 52595 0t0 TCP *:8070 (LISTEN)  
jaha@ubuntu:~$ sudo kill -9 <PID>  
bash: syntax error near unexpected token 'newline'  
jaha@ubuntu:~$ sudo kill -9 4782  
jaha@ubuntu:~$ sudo kill -9 4790  
jaha@ubuntu:~$ docker run -d -p 8070:80 5ba51adee38  
9c27a0c1b0d32a110559f47b23a391dascf08d007ec1360bcelfd4fab40cc  
Failed: port is already allocated.  
jaha@ubuntu:~$ docker run -d -p 8070:80 5ba51adee38  
b5de4bac9d95782801c9164562f17562326177bc79483c88e9fcdedf5280e  
docker: Error response from daemon: driver failed programming external connectivity on endpoint Interesting_turing (f9a18a6feddb112c48441d91dd4be2889a44957bde5b37b7ad429dbdf450): Bind for 0.0.0.0:8070 failed: port is already allocated.  
jaha@ubuntu:~$ docker ps  
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES  
99939e0de22 5ba51adee38 "catalina.sh run" 2 minutes ago Up 2 minutes 8080/tcp, 0.0.0.0:32768->8070/tcp, :::32768->8070/tcp sweet_golick  
7730a232fe0d 5ba51adee38 "catalina.sh run" 3 minutes ago Up 3 minutes 8080/tcp, 0.0.0.0:8070->8077/tcp, :::8070->8077/tcp dazling_mendel  
jaha@ubuntu:~$ docker stop <CONTAINER_ID>  
bash: syntax error near unexpected token 'newline'  
jaha@ubuntu:~$ docker rm <CONTAINER_ID>  
bash: syntax error near unexpected token 'newline'  
jaha@ubuntu:~$ docker run -d -p 8070:80 5ba51adee38  
99879d92a2ac9f40f05b6c1c6d1c0b377fca3ee4a33aa552185cb  
docker: Error response from daemon: driver failed programming external connectivity on endpoint cool_austin (9e771c38081fdc9a5272f1fe7b83df65fa9acedc2c8e3483e9f820198ee0f048): Bind for 0.0.0.0:8070 failed: port is already allocated.  
jaha@ubuntu:~$ docker run -d -p 8081:80 5ba51adee38  
7ee517d026b48822d6d54538ce3aa56924b61525e1c16f8209fa9e197d7601  
jaha@ubuntu:~$ nano deployment.yml  
Use "fg" to return to nano.  
[1]- Stopped nano deployment.yml  
jaha@ubuntu:~$ nano deployment.yml  
jaha@ubuntu:~$ kubectl create -f deployment.yml  
Unable to connect to the server: dial tcp 192.168.49.2:8443: connect: no route to host  
jaha@ubuntu:~$ minikube start  
minikube v1.35.0 on Ubuntu 18.04 (vbox/amd64)  
Using the docker driver based on existing profile  
The requested memory allocation of 2200MiB does not leave room for system overhead (total system memory: 2999MiB). You may face stability issues.  
Suggestion: Start minikube with less memory allocated: 'minikube start --memory=2200mb'  
Starting "minikube" primary control-plane node in "minikube" cluster  
Pulling base image v0.0.46 ...  
Restarting existing docker container for "minikube" ...  
Falling to connect to https://registry.k8s.io/ from both inside the minikube container and host machine  
To pull new external images, you may need to configure a proxy: https://minikube.sigs.k8s.io/docs/reference/networking/proxy/  
Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...  
Verifying Kubernetes components...  
Using image gcr.io/k8s-minikube/storage-provisioner:v5  
Enabled addons: default-storageclass, storage-provisioner  
/usr/bin/kubectl is version 1.28.15, which may have incompatibilities with Kubernetes 1.32.0.  
Want kubectl v1.32.0? Try 'minikube kubectl --get pods -A'  
Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default  
jaha@ubuntu:~$ kubectl create -f deployment.yml  
deployment.apps/java-tomcat created  
jaha@ubuntu:~$ kubectl get pods  
NAME READY STATUS RESTARTS AGE  
java-tomcat-sbf6f58f65-67knb 1/1 Running 0 113s  
java-tomcat-sbf6f58f65-chb18 1/1 Running 0 113s  
java-tomcat-sbf6f58f65-trkx2 1/1 Running 0 113s  
nginx-deployment-sdb946b-b296h 1/1 Running 1 (6m18s ago) 41h  
nginx-deployment-sdb946b-ftklv 1/1 Running 1 (6m18s ago) 41h  
nginx-deployment-sdb946b-xdd79 1/1 Running 1 (6m18s ago) 41h  
react-e-commerce-655f56bb54-584fx 1/1 Running 1 (6m18s ago) 42h  
react-e-commerce-655f56bb54-g99cf 1/1 Running 1 (6m18s ago) 42h  
react-e-commerce-655f56bb54-sp2lj 1/1 Running 2 (6m18s ago) 43h  
jaha@ubuntu:~$ kubectl expose deployment java-maven --port=8081--type=NodePort  
error: the server doesn't have a resource type "deployment"  
jaha@ubuntu:~$ kubectl expose deployment java-tomcat --port=8081--type=NodePort  
error: the server doesn't have a resource type "deployment"  
jaha@ubuntu:~$ kubectl expose deployment java-tomcat --port=8081--type=NodePort  
error: strconv.Atoi: parsing "8081--type=NodePort": invalid syntax  
jaha@ubuntu:~$ kubectl expose deployment java-tomcat --port=8080--type=NodePort  
error: strconv.Atoi: parsing "8080--type=NodePort": invalid syntax  
jaha@ubuntu:~$ kubectl expose deployment java-tomcat --port=8060--type=NodePort  
error: strconv.Atoi: parsing "8060--type=NodePort": invalid syntax  
jaha@ubuntu:~$ kubectl expose deployment java-tomcat --port=8080 --type=NodePort  
service/java-tomcat exposed  
jaha@ubuntu:~$ minikube service java-tomcat  
-----  
| NAMESPACE | NAME | TARGET PORT | URL |  
-----  
| default | java-tomcat | 8080 | http://192.168.49.2:31681 |  
-----  
Opening service default/java-tomcat in default browser...  
jaha@ubuntu:~$ Opening in existing browser session.
```

```
Activities Terminal Sat 11:10 Jaha@ubuntu:~  
Suggestion: Start minikube with less memory allocated: 'minikube start --memory=2200mb'  
Starting "minikube" primary control-plane node in "minikube" cluster  
Pulling base image v0.0.46 ...  
Restarting existing docker container for "minikube" ...  
Falling to connect to https://registry.k8s.io/ from both inside the minikube container and host machine  
To pull new external images, you may need to configure a proxy: https://minikube.sigs.k8s.io/docs/reference/networking/proxy/  
Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...  
Verifying Kubernetes components...  
Using image gcr.io/k8s-minikube/storage-provisioner:v5  
Enabled addons: default-storageclass, storage-provisioner  
/usr/bin/kubectl is version 1.28.15, which may have incompatibilities with Kubernetes 1.32.0.  
Want kubectl v1.32.0? Try 'minikube kubectl --get pods -A'  
Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default  
jaha@ubuntu:~$ kubectl create -f deployment.yml  
deployment.apps/java-tomcat created  
jaha@ubuntu:~$ kubectl get pods  
NAME READY STATUS RESTARTS AGE  
java-tomcat-sbf6f58f65-67knb 1/1 Running 0 113s  
java-tomcat-sbf6f58f65-chb18 1/1 Running 0 113s  
java-tomcat-sbf6f58f65-trkx2 1/1 Running 0 113s  
nginx-deployment-sdb946b-b296h 1/1 Running 1 (6m18s ago) 41h  
nginx-deployment-sdb946b-ftklv 1/1 Running 1 (6m18s ago) 41h  
nginx-deployment-sdb946b-xdd79 1/1 Running 1 (6m18s ago) 41h  
react-e-commerce-655f56bb54-584fx 1/1 Running 1 (6m18s ago) 42h  
react-e-commerce-655f56bb54-g99cf 1/1 Running 1 (6m18s ago) 42h  
react-e-commerce-655f56bb54-sp2lj 1/1 Running 2 (6m18s ago) 43h  
jaha@ubuntu:~$ kubectl expose deployment java-maven --port=8081--type=NodePort  
error: the server doesn't have a resource type "deployment"  
jaha@ubuntu:~$ kubectl expose deployment java-tomcat --port=8081--type=NodePort  
error: the server doesn't have a resource type "deployment"  
jaha@ubuntu:~$ kubectl expose deployment java-tomcat --port=8081--type=NodePort  
error: strconv.Atoi: parsing "8081--type=NodePort": invalid syntax  
jaha@ubuntu:~$ kubectl expose deployment java-tomcat --port=8080--type=NodePort  
error: strconv.Atoi: parsing "8080--type=NodePort": invalid syntax  
jaha@ubuntu:~$ kubectl expose deployment java-tomcat --port=8060--type=NodePort  
error: strconv.Atoi: parsing "8060--type=NodePort": invalid syntax  
jaha@ubuntu:~$ kubectl expose deployment java-tomcat --port=8080 --type=NodePort  
service/java-tomcat exposed  
jaha@ubuntu:~$ minikube service java-tomcat  
-----  
| NAMESPACE | NAME | TARGET PORT | URL |  
-----  
| default | java-tomcat | 8080 | http://192.168.49.2:31681 |  
-----  
Opening service default/java-tomcat in default browser...  
jaha@ubuntu:~$ Opening in existing browser session.
```

```
Activities Terminal Sat 11:27 Jaha@ubuntu:~  
nginx-deployment-sdb946b-ftklv 1/1 Running 1 (6m18s ago) 41h  
nginx-deployment-sdb946b-xdd79 1/1 Running 1 (6m18s ago) 41h  
react-e-commerce-655f56bb54-584fx 1/1 Running 1 (6m18s ago) 42h  
react-e-commerce-655f56bb54-g99cf 1/1 Running 1 (6m18s ago) 42h  
react-e-commerce-655f56bb54-sp2lj 1/1 Running 2 (6m18s ago) 43h  
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jaha@ubuntu:~$ kubectl expose deployment java-tomcat --port=8081--type=NodePort  
error: strconv.Atoi: parsing "8081--type=NodePort": invalid syntax  
jaha@ubuntu:~$ kubectl expose deployment java-tomcat --port=8080--type=NodePort  
error: strconv.Atoi: parsing "8080--type=NodePort": invalid syntax  
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error: strconv.Atoi: parsing "8060--type=NodePort": invalid syntax  
jaha@ubuntu:~$ kubectl expose deployment java-tomcat --port=8080 --type=NodePort  
service/java-tomcat exposed  
jaha@ubuntu:~$ minikube service java-tomcat  
-----  
| NAMESPACE | NAME | TARGET PORT | URL |  
-----  
| default | java-tomcat | 8080 | http://192.168.49.2:31681 |  
-----  
Opening service default/java-tomcat in default browser...  
jaha@ubuntu:~$ Opening in existing browser session.  
^C  
jaha@ubuntu:~$ minikube ip  
192.168.49.2  
jaha@ubuntu:~$ kubectl get services  
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE  
java-tomcat NodePort 10.107.229.110 <none> 8080:31681/TCP 59m  
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 44h  
react-e-commerce-service NodePort 10.107.78.189 <none> 80:30807/TCP 44h  
jaha@ubuntu:~$ curl localhost:31681  
curl: (7) Failed to connect to localhost port 31681: Connection refused  
jaha@ubuntu:~$ curl 192.168.49.2:31681  
curl: (7) Failed to connect to 192.168.49.2 port 31681: Connection refused  
jaha@ubuntu:~$ kubectl get pods  
NAME READY STATUS RESTARTS AGE  
java-tomcat-sbf6f58f65-67knb 1/1 Running 0 65m  
java-tomcat-sbf6f58f65-chb18 1/1 Running 0 65m  
java-tomcat-sbf6f58f65-trkx2 1/1 Running 0 65m  
nginx-deployment-sdb946b-b296h 1/1 Running 1 (70m ago) 43h  
nginx-deployment-sdb946b-ftklv 1/1 Running 1 (70m ago) 42h  
nginx-deployment-sdb946b-xdd79 1/1 Running 1 (70m ago) 42h  
react-e-commerce-655f56bb54-584fx 1/1 Running 1 (70m ago) 43h  
react-e-commerce-655f56bb54-g99cf 1/1 Running 1 (70m ago) 43h  
react-e-commerce-655f56bb54-sp2lj 1/1 Running 2 (70m ago) 44h  
jaha@ubuntu:~$
```