

3,4 Explore Docker Hub for images that will run a website and get them into your development environment and practice.

Step 1: Visit the Docker Hub website

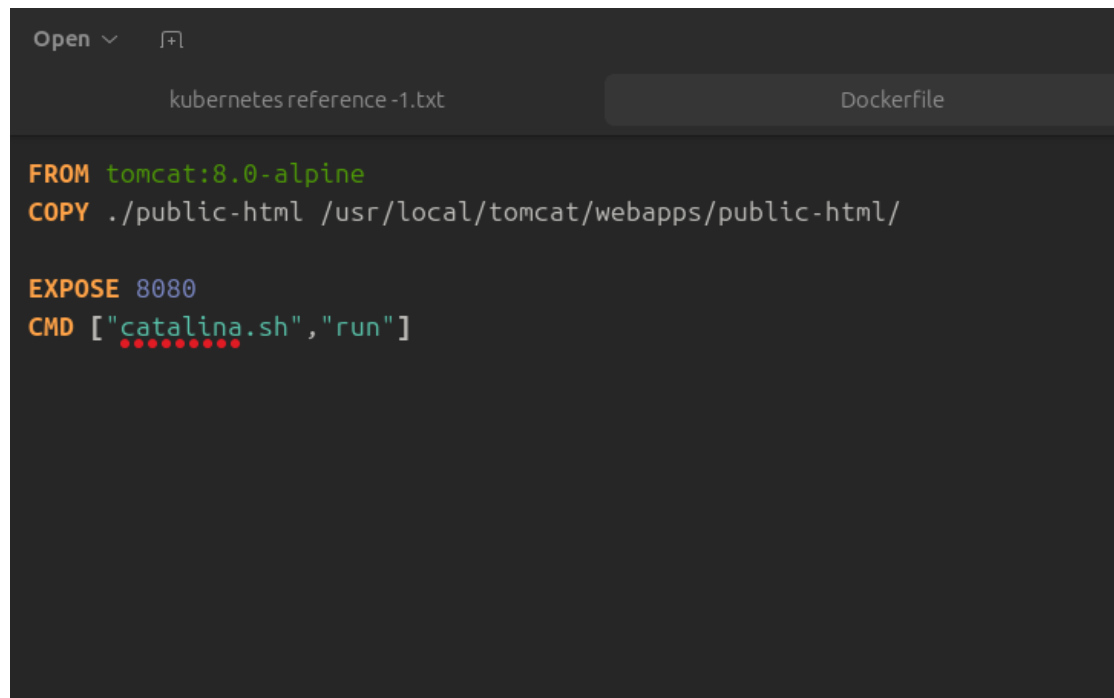
- Go to the Docker Hub website at <https://hub.docker.com/>.

Step 2: Search for website-related images

- In the search bar, enter keywords related to the website technology or framework you want to use. For example, if you want to run a website using Node.js, search for "node" or "node.js".

Step 3: Create a docker file in the location of the website you want to an create image

- inside the docker file give the configuration according to your requirements



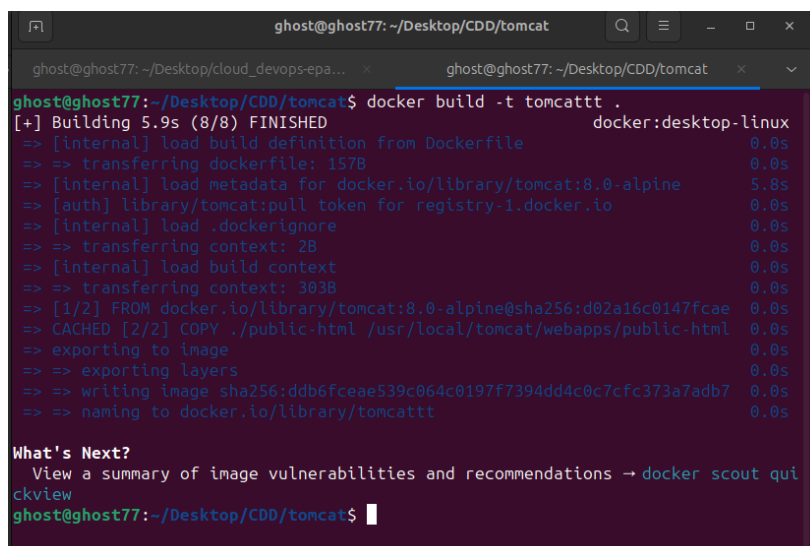
```
Open  [F1]
kubernetes reference -1.txt Dockerfile

FROM tomcat:8.0-alpine
COPY ./public-html /usr/local/tomcat/webapps/public-html/

EXPOSE 8080
CMD ["catalina.sh", "run"]
```

Step 4: Build the Project using Docker Build

ex: docker build -t Tomcat_website



```
ghost@ghost77: ~/Desktop/CDD/tomcat
ghost@ghost77: ~/Desktop/cloud_devops-epa... x ghost@ghost77: ~/Desktop/CDD/tomcat x
ghost@ghost77:~/Desktop/CDD/tomcat$ docker build -t tomcat .
[+] Building 5.9s (8/8) FINISHED docker:desktop-linux
=> [internal] load build definition from Dockerfile 0.0s
=> => transferring dockerfile: 157B 0.0s
=> [internal] load metadata for docker.io/library/tomcat:8.0-alpine 5.8s
=> [auth] library/tomcat:pull token for registry-1.docker.io 0.0s
=> [internal] load .dockerignore 0.0s
=> => transferring context: 2B 0.0s
=> [internal] load build context 0.0s
=> => transferring context: 303B 0.0s
=> [1/2] FROM docker.io/library/tomcat:8.0-alpine@sha256:d02a16c0147fcae 0.0s
=> CACHED [2/2] COPY ./public-html /usr/local/tomcat/webapps/public-html 0.0s
=> exporting to image 0.0s
=> => exporting layers 0.0s
=> => writing image sha256:ddb6fcae539c064c0197f7394dd4c0c7cfc373a7adb7 0.0s
=> => naming to docker.io/library/tomcat 0.0s

What's Next?
View a summary of image vulnerabilities and recommendations -> docker scout quickview
ghost@ghost77:~/Desktop/CDD/tomcat$
```

Step 5: Run the container from the image

ex: `docker run -p 8082:8082 - --name my_website tomcattt`

```
ghost@ghost77: ~/Desktop/CDD/tomcat
ghost@ghost77: ~/Desktop/cloud_devops-epam/Jenkins... x ghost@ghost77: ~/Desktop/CDD/tomcat x
ghost@ghost77:~/Desktop/CDD/tomcat$ docker run -p 8082:8082 --name my_website tomcattt
13-Mar-2024 03:04:35.877 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Se
rver version: Apache Tomcat/8.0.53
13-Mar-2024 03:04:35.878 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Se
rver built: Jun 29 2018 14:42:45 UTC
13-Mar-2024 03:04:35.878 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Se
rver number: 8.0.53.0
13-Mar-2024 03:04:35.878 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log OS
Name: Linux
13-Mar-2024 03:04:35.878 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log OS
Version: 6.6.12-linuxkit
13-Mar-2024 03:04:35.879 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Ar
chitecture: amd64
13-Mar-2024 03:04:35.879 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Ja
va Home: /usr/lib/jvm/java-1.7-openjdk/jre
13-Mar-2024 03:04:35.879 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log JV
M Version: 1.7.0_181-b01
13-Mar-2024 03:04:35.879 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log JV
M Vendor: Oracle Corporation
13-Mar-2024 03:04:35.879 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log CA
TALINA BASE: /usr/local/tomcat
```

Result in port 8082:

