

Spinning up a Docker container with Tomcat Up and Running, along with mounting the volume.

Creation of Docker Image with all requirements.

```
ubuntu@ip-172-31-11-161:~$ docker build -t tom1 .
[+] Building 0.8s (6/6) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 387B
=> [internal] load metadata for docker.io/library/tomcat:10.1
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/2] FROM docker.io/library/tomcat:10.1@sha256:adbcdcd17673ec0c81b7db08a6a2a711d9ba63802962c38c8441639aa33bdd8
=> CACHED [2/2] WORKDIR /usr/local/tomcat
=> exporting to image
=> => exporting layers
=> => writing image sha256:f3d85d90b78f0a180c47b2108354a760bf1d8bbff85c56f35422c3ba214804b6
=> => naming to docker.io/library/tom1
ubuntu@ip-172-31-11-161:~$ pwd
/home/ubuntu
```

Listing Images

```
ubuntu@ip-172-31-11-161:~$ docker restart tomcat-container
tomcat-container
ubuntu@ip-172-31-11-161:~$ docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
tom1	latest	f3d85d90b78f	23 minutes ago	519MB
tom	latest	f3d85d90b78f	23 minutes ago	519MB
tom2	latest	8ac13d9c4097	23 minutes ago	519MB
my_img11	latest	4c8fb33b7fc7	17 hours ago	110MB
my_img10	latest	9ff4cb66bea2	17 hours ago	110MB
my_img9	latest	68fac23620fe	17 hours ago	110MB

Spinning up Container without using the previous cache Following Command can be used → docker build --no-cache -t my-ubuntu-tomcat .

```
ubuntu@ip-172-31-11-161:~$ docker run -d --name tomcat-container -p 8080:8080 \
-v /home/ubuntu/tomcat-data/webapps:/usr/local/tomcat/webapps \
-v /home/ubuntu/tomcat-data/logs:/usr/local/tomcat/logs \
tom2
3e0f251e643f8c480a77a58b8b3b16c5712a844a237d91b57969d1c09b51b421
```

Listing the container

```
ubuntu@ip-172-31-11-161:~$ docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
3e0f251e643f	tom2	"/usr/local/tomcat/b..."	4 minutes ago	Up 4 minutes	0.0.0.0:8080->8080/tcp, [::]:8080->8080/tcp	tomcat-container

Hitting the Public IP with the Port 8080

Not secure 52.66.238.53:8080


CHATGPT Docker & Kube Devops DevopsNotes - Goo...

Home Documentation Configuration Examples Wiki Mailing Lists Find Help

Apache Tomcat/10.1.39

APACHE SOFTWARE FOUNDATION
http://www.apache.org/

If you're seeing this, you've successfully installed Tomcat. Congratulations!

 Recommended Reading:

- [Security Considerations How-To](#)
- [Manager Application How-To](#)
- [Clustering/Session Replication How-To](#)

Server Status
Manager App
Host Manager

Developer Quick Start

Tomcat Setup First Web Application	Realms & AAA JDBC DataSources	Examples	Servlet Specifications Tomcat Versions
---------------------------------------	----------------------------------	----------	---

Managing Tomcat

For security, access to the manager webapp is restricted. Users are defined in:

```
$CATALINA_HOME/conf/tomcat-users.xml
```

In Tomcat 10.1 access to the manager application is split between different users. Read more...

[080/docs/security-howto.html](#)

Documentation

Tomcat 10.1 Documentation
Tomcat 10.1 Configuration
Tomcat Wiki

Find additional important configuration information in:

```
$CATALINA_HOME/RUNNING.txt
```

Getting Help

FAQ and Mailing Lists

The following mailing lists are available:

tomcat-announce
Important announcements, releases, security vulnerability notifications. (Low volume).

tomcat-users
User support and discussion

Logs of the container running using the command

```
18-Mar-2025 15:33:59.143 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Dorg.apache.catalina.security.SecurityListener.UMAS
K=0027
18-Mar-2025 15:33:59.143 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: --add-opens=java.base/java.lang=ALL-UNNAMED
18-Mar-2025 15:33:59.143 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: --add-opens=java.base/java.lang.reflect=ALL-UNNAMED
18-Mar-2025 15:33:59.143 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: --add-opens=java.base/java.io=ALL-UNNAMED
18-Mar-2025 15:33:59.143 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: --add-opens=java.base/java.util=ALL-UNNAMED
18-Mar-2025 15:33:59.143 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: --add-opens=java.base/java.util.concurrent=ALL-UNNAMED
18-Mar-2025 15:33:59.143 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: --add-opens=java.rmi/sun.rmi.transport=ALL-UNNAMED
18-Mar-2025 15:33:59.143 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Dcatalina.base=/usr/local/tomcat
18-Mar-2025 15:33:59.143 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Dcatalina.home=/usr/local/tomcat
18-Mar-2025 15:33:59.144 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djava.io.tmpdir=/usr/local/tomcat/temp
18-Mar-2025 15:33:59.156 INFO [main] org.apache.catalina.core.AprLifecycleListener.lifecycleEvent Loaded Apache Tomcat Native library [2.0.8] using APR version [1.7.2]
18-Mar-2025 15:33:59.164 INFO [main] org.apache.catalina.core.AprLifecycleListener.initializeSSL OpenSSL successfully initialized [OpenSSL 3.0.13 30 Jan 2024]
18-Mar-2025 15:33:59.871 INFO [main] org.apache.coyote.AbstractProtocol.init Initializing ProtocolHandler ["http-nio-8080"]
18-Mar-2025 15:33:59.917 INFO [main] org.apache.catalina.startup.Catalina.load Server initialization in [1215] milliseconds
18-Mar-2025 15:34:00.002 INFO [main] org.apache.catalina.core.StandardService.startInternal Starting Servlet engine: [Apache Tomcat/10.1.39]
18-Mar-2025 15:34:00.005 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deploying web application directory [/usr/local/tomcat/webapps/ROOT]
18-Mar-2025 15:34:00.029 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [/usr/local/tomcat/webapps/ROOT] h
as finished in [700] ms
18-Mar-2025 15:34:00.732 INFO [main] org.apache.coyote.AbstractProtocol.start Starting ProtocolHandler ["http-nio-8080"]
18-Mar-2025 15:34:00.739 INFO [main] org.apache.catalina.startup.Catalina.start Server startup in [844] milliseconds
ubuntu@ip-172-31-11-161:~$
```

Volume creation Command → `docker volume create tomcat_volume` Local Mount

```
ubuntu@ip-172-31-11-161:~$ docker exec -it tomcat-container /bin/sh
# ls -l /usr/local/tomcat/webapps/
```

Stopping of Container and listing the same

```
ubuntu@ip-172-31-11-161:~$ docker stop tomcat-container
tomcat-container
ubuntu@ip-172-31-11-161:~$ docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED   STATUS    PORTS   NAMES
ubuntu@ip-172-31-11-161:~$ docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS      PORTS   NAMES
3e0f251e643f   tom2      "/usr/local/tomcat/b-"  18 minutes ago Exited (143) 33 seconds ago tomcat-container
```

Failed to load post stopping the container



This site can't be reached

52.66.238.53 refused to connect.

Try:

- Checking the connection
- [Checking the proxy and the firewall](#)

ERR_CONNECTION_REFUSED

Reload

Details

Spinning up the container again

```
ubuntu@ip-172-31-11-161:~$ docker restart tomcat-container
tomcat-container
ubuntu@ip-172-31-11-161:~$ docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED    STATUS    PORTS                               NAMES
3e0f251e643f   tom2     "/usr/local/tomcat/b..." 20 minutes ago    Up 16 seconds    0.0.0.0:8080->8080/tcp, [::]:8080->8080/tcp    tomcat-container
ubuntu@ip-172-31-11-161:~$
```

Container up and running along with tomcat



Apache Tomcat/10.1.39



If you're seeing this, you've successfully installed Tomcat. Congratulations!



Recommended Reading:

[Security Considerations How-To](#)

[Manager Application How-To](#)

[Clustering/Session Replication How-To](#)

Server Status

Manager App

Host Manager

Developer Quick Start

Tomcat Setup
First Web Application

Realms & AAA
JDBC DataSources

Examples

Servlet Specifications
Tomcat Versions

Managing Tomcat

For security, access to the manager webapp is restricted. Users are defined in:

`$CATALINA_HOME/conf/tomcat-users.xml`

In Tomcat 10.1 access to the manager application is split between different users.
[Read more...](#)

Documentation

[Tomcat 10.1 Documentation](#)

[Tomcat 10.1 Configuration](#)

[Tomcat Wiki](#)

Find additional important configuration information in:

Getting Help

[FAQ and Mailing Lists](#)

The following mailing lists are available:

[tomcat-announce](#)
Important announcements, releases, security vulnerability notifications. (Low volume).

[tomcat-users](#)
User support and discussion.