

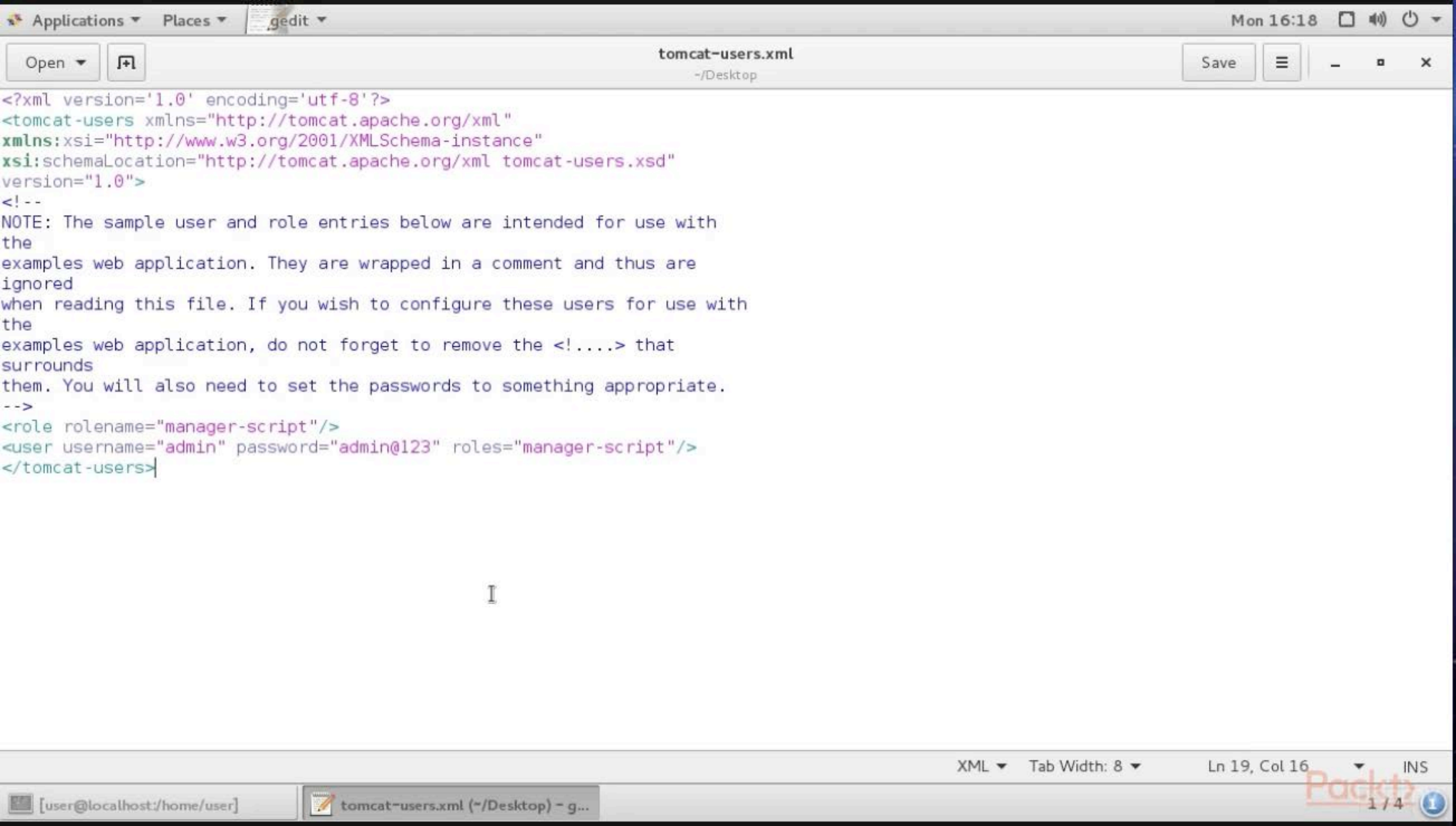
Video 7.2

Deploying an Application in Docker Container



In this Video, we are going to take a look at...

- Executing the Docker build command to create an image
- Accessing the Manager App URL



```
FROM tomcat:8.0
MAINTAINER packt<videotesting@packtpub.com>
COPY tomcat-users.xml /home/user/apache-tomcat-7.0.73/conf
|
```


user@localhost:/home/user/Desktop

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```
---> Running in b79bba609cb8
```

```
---> caa3200c637e
```

```
Removing intermediate container b79bba609cb8
```

```
Step 3 : COPY tomcat-users.xml /home/user/apache-tomcat-7.0.73/conf
```

```
---> bfc29c1cb377
```

```
Removing intermediate container 1bae89549089
```

```
Successfully built bfc29c1cb377
```

```
[root@localhost Desktop]# docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
devops_tomcat_sc	latest	bfc29c1cb377	35 seconds ago	355.2 MB
<none>	<none>	3161627803cb	About an hour ago	621.2 MB
<none>	<none>	8e858fb4f2ea	About an hour ago	256.2 MB
docker.io/centos	latest	67591570dd29	6 days ago	191.8 MB
docker.io/ubuntu	latest	104bec311bcd	6 days ago	128.9 MB
docker.io/tomcat	8.0	47bd812c12f6	7 days ago	355.2 MB
docker.io/tomcat	latest	47bd812c12f6	7 days ago	355.2 MB
docker.io/hello-world	latest	c54a2cc56cbb	5 months ago	1.848 kB

```
[root@localhost Desktop]# docker run -p 8180:8080 -d --name devopstomcat_sc devops_tomcat_sc
```

```
docker: Error response from daemon: Conflict. The name "/devopstomcat_sc" is already in use by container aff747a72d0e936b773a7b725fa41c1aea7cb2c505e7e941e7fdcb2ad3643629. You have to remove (or rename) that container to be able to reuse that name..
```

```
See '/usr/bin/docker-current run --help'.
```

```
[root@localhost Desktop]#
```


user@localhost:/home/user/Desktop

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```
[root@localhost Desktop]# docker run -p 8080:9090 -d --name devops_tomcat_sc devops_tomcat_sc
3a7d55d8d74c4533898e1b6636c24c57129aa97b0208ac6d1344b45757c63a58
docker: Error response from daemon: failed to create endpoint devops_tomcat_sc on network bridge:
Bind for 0.0.0.0:8080 failed: port is already allocated.
[root@localhost Desktop]# docker run -p 8180:8080 -d --name devops_tomcat_sc devops_tomcat_sc
docker: Error response from daemon: Conflict. The name "/devops_tomcat_sc" is already in use by c
ontainer 3a7d55d8d74c4533898e1b6636c24c57129aa97b0208ac6d1344b45757c63a58. You have to remove (or
rename) that container to be able to reuse that name..
See '/usr/bin/docker-current run --help'.
[root@localhost Desktop]# docker run -p 8180:8080 -d --name devops_tomcat_sc devops_tomcat_sc
63580f209f6aa76ded0960cb4aebd537c18ecdc47b66d801eeaf7e9c2854547
[root@localhost Desktop]# docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
63580f209f6a	devops_tomcat_sc	"catalina.sh run"	18 seconds ago	Up 13 seconds
0.0.0.0:8180->8080/tcp		devops_tomcat_sc		
69afce556bf1	tomcat	"catalina.sh run"	2 hours ago	Up 2 hours
8080/tcp, 0.0.0.0:8080->9090/tcp		devops_tomcat9		
9f988962af4d	tomcat	"catalina.sh run"	2 hours ago	Up 2 hours
8080/tcp		devops_tomcat		
ec9ce05d6f7b	tomcat:8.0	"catalina.sh run"	2 hours ago	Up 2 hours
8080/tcp		elated_goldstine		

```
[root@localhost Desktop]#
```

user@localhost:/home/user/Desktop

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```
"MacAddress": "02:42:ac:11:00:05",
"Networks": {
  "bridge": {
    "IPAMConfig": null,
    "Links": null,
    "Aliases": null,
    "NetworkID": "56d6620c9896a92538c0e012904a0f1ec5b1197da7b5574725947b8e9e134a0
9",
    "EndpointID": "2df5d34f4d0385743ac20fc3f3123c0a68dbea7b4cb8163723c1a1bb1d775c
1b",

    "Gateway": "172.17.0.1",
    "IPAddress": "172.17.0.5",
    "IPPrefixLen": 16,
    "IPv6Gateway": "",
    "GlobalIPv6Address": "",
    "GlobalIPv6PrefixLen": 0,
    "MacAddress": "02:42:ac:11:00:05"
  }
}
}
}
]
[root@localhost Desktop]#
```


Apache Tomcat/8.0.39



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
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Managing Tomcat

For security, access to the [manager webapp](#) is restricted. Users are defined in:

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

In Tomcat 8.0 access to the manager application is split between different users

Documentation

[Tomcat 8.0 Documentation](#)
[Tomcat 8.0 Configuration](#)
[Tomcat Wiki](#)

Find additional important configuration

Getting Help


[FAQ](#) and [Mailing Lists](#)

The following mailing lists are available:

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

Apache Tomcat/8.0.39

The Apache Software Foundation
<http://www.apache.org/>



Developer Quickstart

[Tomcat Setup](#)
[First Web Application](#)

Authentication Required

A username and password are being requested by http://172.17.0.5:8080. The site says: "Tomcat Manager Application"

User Name:

Password:

Cancel OK

[Manager Status](#)
[Manager App](#)
[Manager](#)

[Realms & AAA](#)
[JDBC DataSources](#)

[Examples](#)

[Servlet Specifications](#)
[Tomcat Versions](#)

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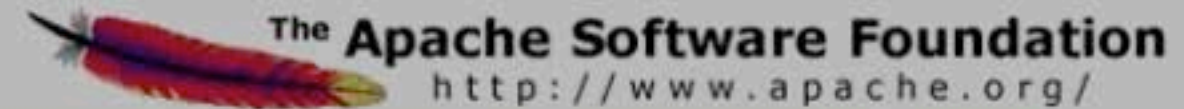
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Apache Tomcat/8.0.39



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

Authentication Required



A username and password are being requested by http://172.17.0.5:8080. The site says: "Tomcat Manager Application"

User Name: admin

Password:

Cancel

OK

OK - Listed applications for virtual host localhost
/manager:running:1:manager
/:running:0:ROOT
/docs:running:0:docs
/examples:running:0:examples
/host-manager:running:0:host-manager

Next Video

Deploying an Application in AWS