

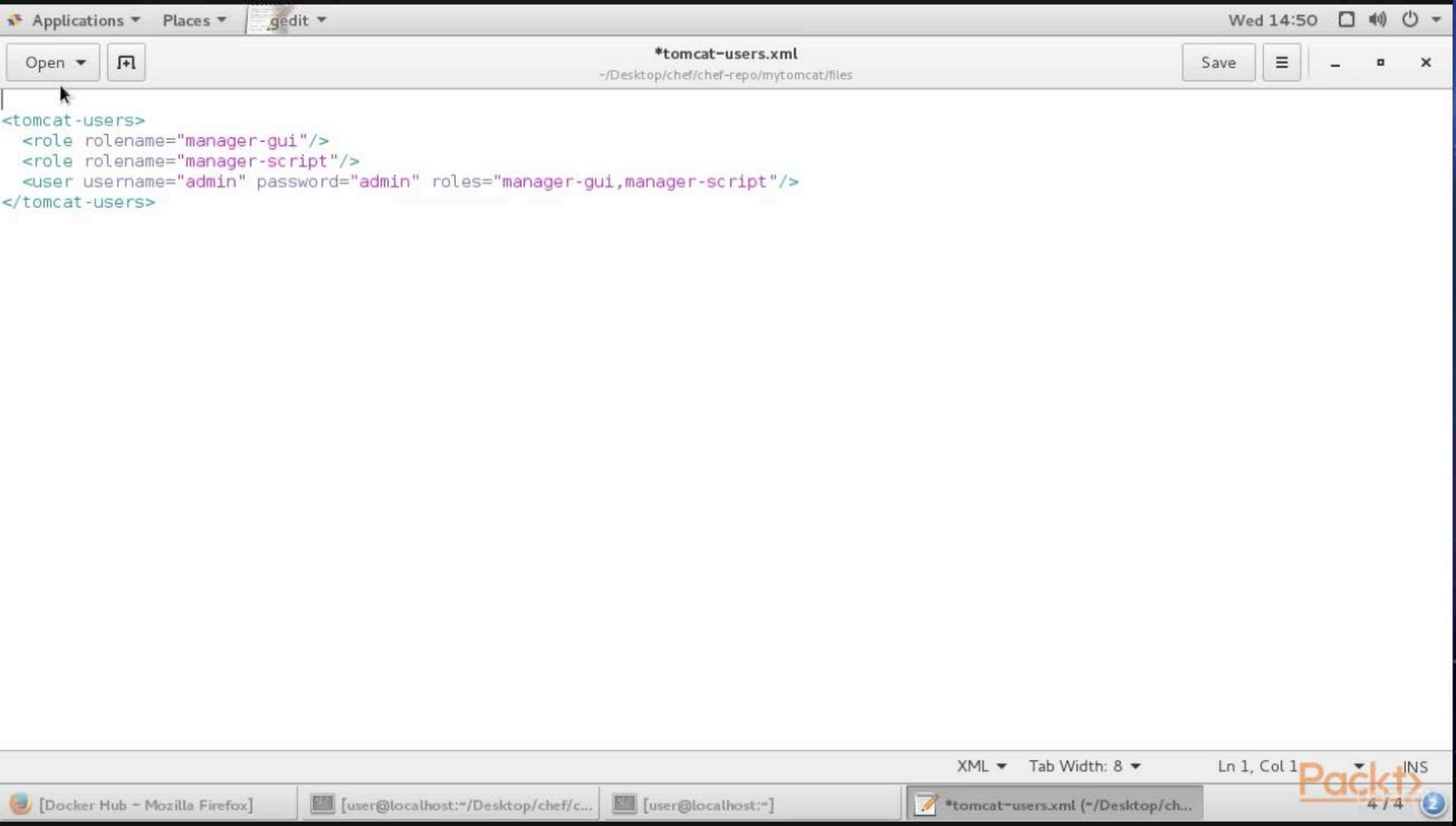
Video 6.5

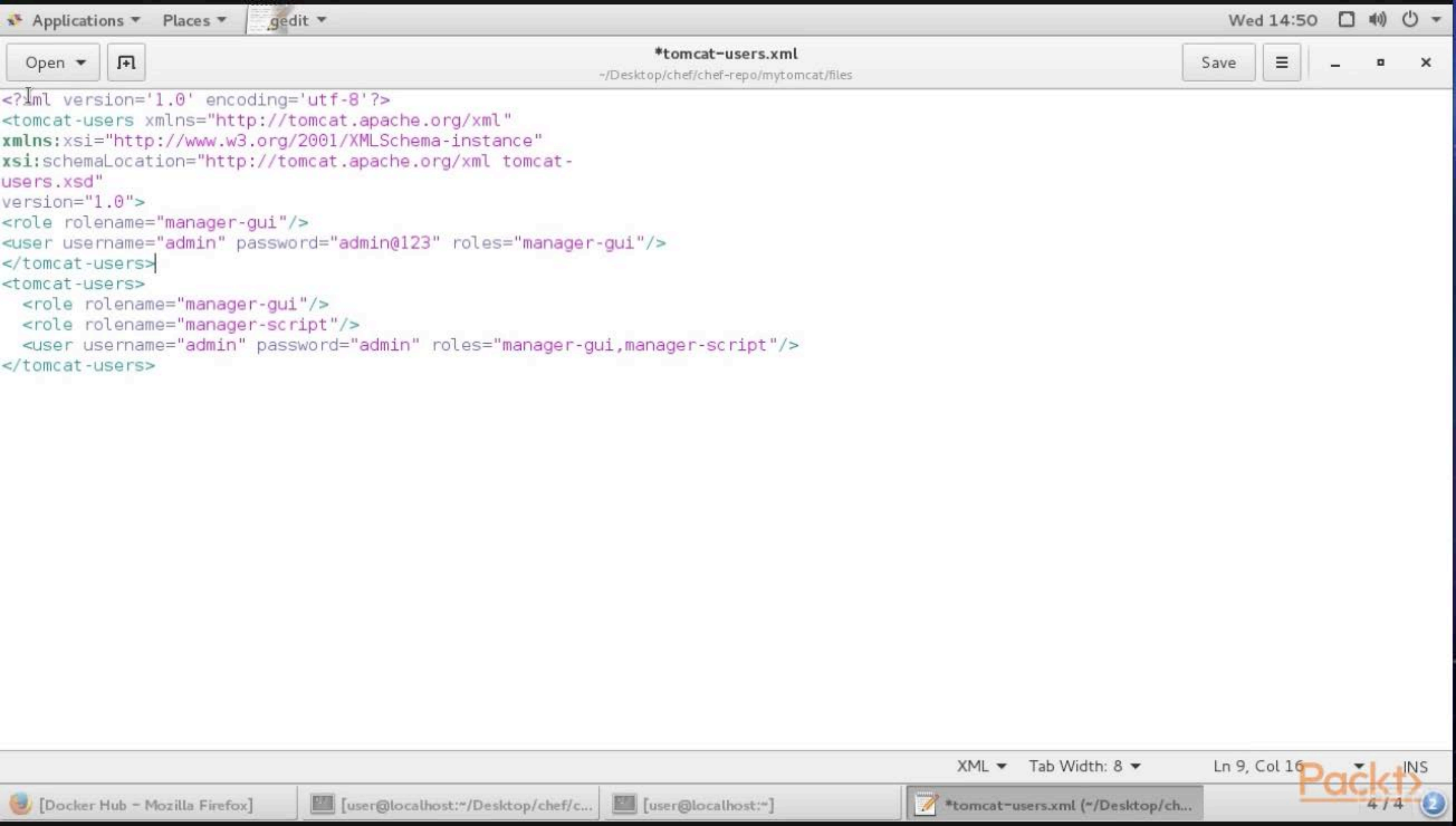
Docker Containers








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

- Using the image available in Docker Hub
- Creating a container from the newly created Tomcat image









Open ▾  *tomcat-users.xml Save    

~/Desktop/chef/chef-repo/mytomcat/files

```
<?xml version='1.0' encoding='utf-8'?>
<tomcat-users xmlns="http://tomcat.apache.org/xml"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://tomcat.apache.org/xml tomcat-
users.xsd"
version="1.0">
<role rolename="manager-gui"/>
<user username="admin" password="admin@123" roles="manager-gui"/>
</tomcat-users>
<tomcat-users>
  <role rolename="manager-gui"/>
  <role rolename="manager-script"/>
  <user username="admin" password="admin" roles="manager-gui,manager-script"/>
</tomcat-users>
```

XML ▾ Tab Width: 8 ▾ Ln 9, Col 15 INS

 [Docker Hub - Mozilla Firefox]  [user@localhost:~/Desktop/chef/c...]  [user@localhost:~]  *tomcat-users.xml (~/Desktop/ch...)

user@localhost:/home/user/Desktop

File Edit View Search Terminal Help

```
[root@localhost Desktop]# docker build -t devopstomcatnew .  
Sending build context to Docker daemon 1.372 GB  
Step 1 : FROM tomcat:8.0  
--> c6cfe59eb987  
Step 2 : MAINTAINER packt<videotesting@packtpub.com>  
--> Using cache  
--> bb791097c022  
Step 3 : COPY tomcat-users.xml /home/user/apache-tomcat-7.0.73/conf/tomcat-users.xml  
--> 9cec46e89ec2
```

user@localhost:/home/user/Desktop

File Edit View Search Terminal Help

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Sending build context to Docker daemon 1.372 GB
Step 1 : FROM tomcat:8.0
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--> 9cec46e89ec2
Removing intermediate container 3b6431a85ce5
Successfully built 9cec46e89ec2
[root@localhost Desktop]# docker images
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
devopstomcatnew	latest	9cec46e89ec2	21 seconds ago	356.9 MB
docker.io/ubuntu	latest	4ca3a192ff2a	2 weeks ago	128.2 MB
docker.io/tomcat	8.0	c6cfe59eb987	4 weeks ago	356.9 MB
docker.io/tomcat	latest	c6cfe59eb987	4 weeks ago	356.9 MB
docker.io/hello-world	latest	c54a2cc56cbb	5 months ago	1.848 kB

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


user@localhost:/home/user/Desktop

File Edit View Search Terminal Help

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[root@localhost Desktop]# docker build -t devopstomcatnew .
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Removing intermediate container 3b6431a85ce5

Successfully built 9cec46e89ec2

```
[root@localhost Desktop]# docker images
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REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
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docker.io/tomcat	latest	c6cfe59eb987	4 weeks ago	356.9 MB
docker.io/hello-world	latest	c54a2cc56cbb	5 months ago	1.848 kB

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

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
PORTS	NAMES			

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


user@localhost:/home/user/Desktop

File Edit View Search Terminal Help

docker.io/tomcat	latest	c6cfe59eb987	4 weeks ago	356.9 MB
docker.io/hello-world	latest	c54a2cc56cbb	5 months ago	1.848 kB

[root@localhost Desktop]# docker ps

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
PORTS	NAMES			

[root@localhost Desktop]# docker ps -a

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
PORTS	NAMES			
15b1ecdbdea0	tomcat	"catalina.sh run"	2 days ago	Created
		thirsty_stallman		
93b65a1344bd	tomcat:8.0	"catalina.sh run"	2 days ago	Exited (137) 11 m
		naughty_goldberg		
1a075663edf2	tomcat	"bash"	2 days ago	Exited (137) 11 m
		thirsty_pike		
59ed6e4e2ac1	tomcat:8.0	"catalina.sh run"	2 days ago	Exited (137) 11 m
		modest_saha		
896e88f39b41	tomcat	"bash"	2 days ago	Exited (137) 11 m
		pedantic_goldstine		
eaeaaa459c43	ubuntu	"bash"	2 days ago	Exited (137) 11 m
		hungry_hodgkin		
2f76b78cf09a	hello-world	"/hello"	2 days ago	Exited (137) 11 m
		romantic_knuth		
a22a2bc07831	hello-world	"/hello"	2 days ago	Created



Welcome to CentOS

The Community ENTERprise Operating System

CentOS is an Enterprise-class Linux Distribution derived from sources freely provided to the public by Red Hat, Inc. for Red Hat Enterprise Linux. CentOS conforms fully with the upstream vendors redistribution policy and aims to be functionally compatible. (CentOS mainly changes packages to remove upstream vendor branding and artwork.)

CentOS is developed by a small but growing team of core developers. In turn the core developers are supported by an active user community including system administrators, network administrators, enterprise users, managers, core Linux contributors and Linux enthusiasts from around the world.

CentOS has numerous advantages including: an active and growing user community, quickly rebuilt, tested, and QA'ed errata packages, an extensive [mirror network](#), developers who are contactable and responsive, Special Interest Groups (SIGs) to add functionality to the core CentOS distribution, and multiple community support avenues including a [wiki](#), [IRC Chat](#), [Email Lists](#), [Forums](#), [Bugs Database](#), and an [FAQ](#).

Problem loading page x +

https://192.168.6.246:8080

Search

Secure Connection Failed

An error occurred during a connection to 192.168.6.246:8080. SSL received a record that exceeded the maximum permissible length. Error code: SSL_ERROR_RX_RECORD_TOO_LONG

- The page you are trying to view cannot be shown because the authenticity of the received data could not be verified.
- Please contact the website owners to inform them of this problem.

[Learn more...](#)

Try Again

☐ Report errors like this to help Mozilla identify and block malicious sites

Apache Tomcat/7.0.73



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 7.0 access to the manager application is split between different users.

[Read more...](#)

Release Notes

Documentation

[Tomcat 7.0 Documentation](#)

[Tomcat 7.0 Configuration](#)

[Tomcat Wiki](#)

Find additional important configuration information in:

`$CATALINA_HOME/RUNNING.txt`

Developers may be interested 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

[taglibs-user](#)



Tomcat Web Application Manager

Message: OK

Manager
[List Applications](#) [HTML Manager Help](#) [Manager Help](#) [Server Status](#)

Applications					
Path	Version	Display Name	Running	Sessions	Commands
/	None specified	Welcome to Tomcat	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/docs	None specified	Tomcat Documentation	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/examples	None specified	Servlet and JSP Examples	true	0	Start Stop Reload Undeploy Expire sessions with idle ≥ 30 minutes
/host-manager	None specified	Tomcat Host Manager Application	true	0	Start Stop Reload Undeploy

Summary

- Looked at Chef and cloud provisioning
- Installed knife plugins for Amazon WebServices and Microsoft Azure
- Created and configuring a virtual machine in Amazon EC2
- Created and configuring a virtual machine in Microsoft Azure
- Looked at Docker containers

Next Section

Deploying Application in AWS, Azure, and Docker