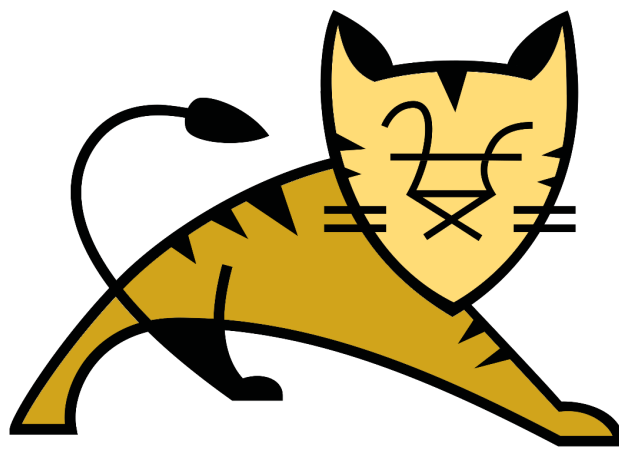


Tomcat



Apache Tomcat

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Instalación y ejecución Tomcat

1. Lo primero que debemos hacer es instalar el tomcat como se muestra en la captura, en este caso el 9.0.

```
estudiante@DAW1:~$ docker run -it --rm tomcat:9.0
Unable to find image 'tomcat:9.0' locally
9.0: Pulling from library/tomcat
6e3729cf69e0: Pull complete
4d8d923227d8: Pull complete
eda8241fd25f: Pull complete
35dccabde73d: Pull complete
978c906bcdda: Pull complete
542de2e3d783: Pull complete
3294a3c6321f: Pull complete
```

2. A continuación debemos arrancar el tomcat indicando el puerto y nos mostrará la ubicación de los archivos que trae de por sí tomcat.

```
estudiante@DAW1:~$ docker run -it --rm -p 8888:8084 tomcat:9.0
Using CATALINA_BASE:   /usr/local/tomcat
Using CATALINA_HOME:   /usr/local/tomcat
Using CATALINA_TMPDIR: /usr/local/tomcat/temp
Using JRE_HOME:        /opt/java/openjdk
Using CLASSPATH:        /usr/local/tomcat/bin/bootstrap.jar:/usr/local/tomcat/bin
/tomcat-juli.jar
Using CATALINA_OPTS:
```

3. Para no parar el tomcat debemos abrir otra terminal y mostrar las imágenes en uso con docker ps

```
estudiante@DAW1:~$ docker ps
```

4. Obtenemos el id de la imagen

CONTAINER ID	IMAGE	COMMAND	CREATED
f95f4bbd9cfb	tomcat:9.0	"catalina.sh run"	13 seconds ago
Up 13 seconds	0.0.0.0:8888->8080/tcp, :::8888->8080/tcp		trusting_cori

5. A continuación con el comando docker exec -it (id imagen) /bin/bash abrimos directamente la consola de tomcat

```
estudiante@DAW1:~$ docker exec -it f95f4bbd9cfb /bin/bash
```

6. Una vez en la consola solo debemos de poner el comando para activar el webapps

```
root@f95f4bbd9cfb:/usr/local/tomcat# cp -R webapps.dist/* webapps
```




- Ya solo debemos introducir en el navegador localhost:(El puerto anteriormente especificado, en nuestro caso el 8888) y se nos abre la aplicación de tomcat, pero tenemos el problema de que no tenemos acceso al apartado manager

Apache Tomcat/9.0.70



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](#) [Realms & AAA](#) [Examples](#) [Servlet Specifications](#)

403 Access Denied

You are not authorized to view this page.

By default the Manager is only accessible from a browser running on the same machine as Tomcat. If you wish to modify this restriction, you'll need to edit the Manager's `context.xml` file.

If you have already configured the Manager application to allow access and you have used your browsers back button, used a saved book-mark or similar then you may have triggered the cross-site request forgery (CSRF) protection that been enabled for the HTML interface of the Manager application. You will need to reset this protection by returning to the [main Manager page](#). Once you return to this page, you will be able to continue using the Manager application's HTML interface normally. If you continue to see this access denied message, check that you have the necessary permissions to access this application.

If you have not changed any configuration files, please examine the file `conf/tomcat-users.xml` in your installation. That file must contain the credentials to let you use this webapp.

For example, to add the `manager-gui` role to a user named `tomcat` with a password of `s3cret`, add the following to the config file listed above.

```
<role rolename="manager-gui"/>
<user username="tomcat" password="s3cret" roles="manager-gui"/>
```

Note that for Tomcat 7 onwards, the roles required to use the manager application were changed from the single `manager` role to the following four roles. You will need to assign the role(s) required for the functionality you wish to access:

- `manager-gui` - allows access to the HTML GUI and the status pages
- `manager-script` - allows access to the text interface and the status pages
- `manager-jmx` - allows access to the JMX proxy and the status pages
- `manager-status` - allows access to the status pages only

The HTML interface is protected against CSRF but the text and JMX interfaces are not. To maintain the CSRF protection:

- Users with the `manager-gui` role should not be granted either the `manager-script` or `manager-jmx` roles.
- If the text or jmx interfaces are accessed through a browser (e.g. for testing since these interfaces are intended for tools not humans) then the browser must be closed afterwards to terminate the session.

For more information - please see the [Manager App How-To](#).

- Por lo que debemos de acudir de nuevo a la consola de tomcat, hacer un ls para saber los repositorios y ficheros que tiene el repositorio tomcat y trasladarnos a la siguiente ruta `conf/Catalina/localhost/`

```
root@f95f4bbd9cfb:/usr/local/tomcat# ls
bin          lib          NOTICE     temp
BUILDING.txt LICENSE      README.md   webapps
conf         logs        RELEASE-NOTES webapps.dist
CONTRIBUTING.md native-jni-lib RUNNING.txt work
root@f95f4bbd9cfb:/usr/local/tomcat# cd conf/Catalina/localhost/
root@f95f4bbd9cfb:/usr/local/tomcat/conf/Catalina/localhost#
```

- Tenemos que en la consola de tomcat hacer un `apt update` para actualizarlo e instalar el nano con el comando `apt install nano`



```
root@cbe5cd5abcaf:/usr/local/tomcat# apt update
Get:1 http://archive.ubuntu.com/ubuntu jammy InRelease [270 kB]
Get:2 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]
Get:3 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [114 kB]
Get:4 http://archive.ubuntu.com/ubuntu jammy-backports InRelease [99.8 kB]
Get:5 http://archive.ubuntu.com/ubuntu jammy/main amd64 Packages [1,792 kB]
Get:6 http://archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [17.5 MB]
Get:7 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [4,732 B]
Get:8 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [720 kB]
Get:9 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [659 kB]
Get:10 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [786 kB]
Get:11 http://archive.ubuntu.com/ubuntu jammy/restricted amd64 Packages [164 kB]
Get:12 http://archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [266 kB]
```

```
root@cbe5cd5abcaf:/usr/local/tomcat# apt install nano
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Suggested packages:
  hunspell
The following NEW packages will be installed:
  nano
0 upgraded, 1 newly installed, 0 to remove and 5 not upgraded.
```

10. Una vez instalado el nano tenemos que ir a la ruta conf/Catalina/localhost y creamos el fichero manager.xml con nano e incluimos la información proporcionada por la mood en el siguiente enlace

https://educacionadistancia.juntadeandalucia.es/centros/sevilla/pluginfile.php/307341/mod_resource/content/0/context.xml

```
root@cbe5cd5abcaf:/usr/local/tomcat/conf/Catalina/localhost# nano manager.xml
root@cbe5cd5abcaf:/usr/local/tomcat/conf/Catalina/localhost#
```

```

root@cbe5cd5abcaf: /usr/local/tomcat/conf/Catalina/localhost
estudiante@DAW1: ~ x root@cbe5cd5abcaf: /usr/local/tomcat... x
GNU nano 6.2 manager.xml *
--
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contributor license agreements. See the NOTICE file distributed with
this work for additional information regarding copyright ownership.
The ASF licenses this file to You under the Apache License, Version 2.0
(the "License"); you may not use this file except in compliance with
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distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
See the License for the specific language governing permissions and
limitations under the License.
-->
!-
The contents of this file will be loaded for each web application
-->
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^_ Go To Line

```

11. Luego nos pasamos al apartado conf y con ls vemos el archivo tomcat-users.xml y nos introducimos en él

```

root@cbe5cd5abcaf:/usr/local/tomcat/conf/Catalina/localhost# cd ..
root@cbe5cd5abcaf:/usr/local/tomcat/conf/Catalina# cd ..
root@cbe5cd5abcaf:/usr/local/tomcat/conf# ls
Catalina          context.xml       logging.properties  tomcat-users.xsd
catalina.policy   jaspic-providers.xml  server.xml           web.xml
catalina.properties  jaspic-providers.xsd  tomcat-users.xml
root@cbe5cd5abcaf:/usr/local/tomcat/conf# nano tomcat-users.xml

```

12. Añadimos el usuario y el password en el fichero, lo introducimos en el login para acceder a manager y nos muestra lo siguiente



```
estudiante@DAW1: ~ x root@cbe5cd5abcaf: /usr/local/tomcat... x v
GNU nano 6.2 tomcat-users.xml *
<user username="robot" password="<must-be-changed>" roles="manager-script"/>
->
:!--
The sample user and role entries below are intended for use with the
examples web application. They are wrapped in a comment and thus are ignored
when reading this file. If you wish to configure these users for use with the
examples web application, do not forget to remove the <!-- ..> that surrounds
them. You will also need to set the passwords to something appropriate.
->
:!--
<role rolename="tomcat"/>
<role rolename="role1"/>
<user username="tomcat" password="<must-be-changed>" roles="tomcat"/>
<user username="both" password="<must-be-changed>" roles="tomcat,role1"/>
<user username="role1" password="<must-be-changed>" roles="role1"/>
->
<role rolename="manager-gui"/>
<user username="tomcat" password="tomcat" roles="manager-gui">
/tomcat-users>
```

localhost:8888

This site is asking you to sign in.

Username

Password

Cancel Sign In

Home Documentation Conf...

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If you're s

Recommendations

Security

Manager

Clustering

Developer Quick Start

Tomcat Setup

Realms & AAA

Examples

Servlet Specifications

Find Help

APACHE SOFTWARE FOUNDATION


http://www.apache.org


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Server Status

Manager App

Host Manager





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	<div>StartStopReloadUndeploy</div> <div>Expire sessions with idle ≥ 30 minutes</div>
/docs	None specified	Tomcat Documentation	true	0	<div>StartStopReloadUndeploy</div> <div>Expire sessions with idle ≥ 30 minutes</div>
/examples	None specified	Servlet and JSP Examples	true	0	<div>StartStopReloadUndeploy</div> <div>Expire sessions with idle ≥ 30 minutes</div>
/host-manager	None specified	Tomcat Host Manager Application	true	0	<div>StartStopReloadUndeploy</div> <div>Expire sessions with idle ≥ 30 minutes</div>
/manager	None specified	Tomcat Manager Application	true	1	<div>StartStopReloadUndeploy</div> <div>Expire sessions with idle ≥ 30 minutes</div>