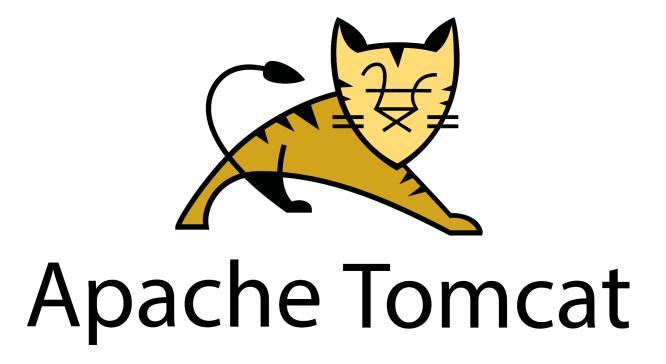
TomCat Instalación y Configuración



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Instalación y configuración

1. Lo primero que tenemos que hacer es en una nueva terminal escribir el comando: docker run -it --rm -p 8888:8080 tomcat:9.0 (--rm es solo para el ejemplo ya que una vez que lo cerremos se borrara).

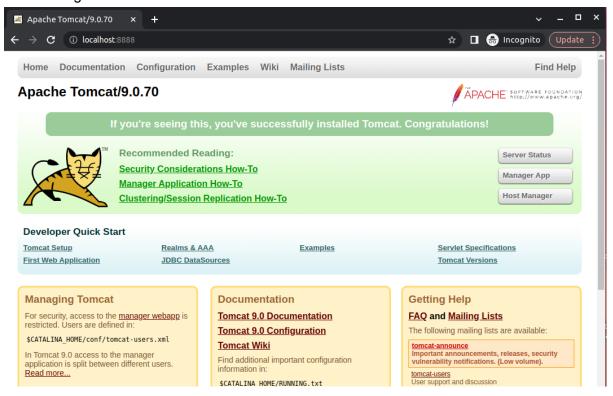
```
estudiante@DAW1:~$ docker run -it --rm -p 8888:8080 tomcat:9.0
Using CATALINA_BASE:
                        /usr/local/tomcat
Using CATALINA_HOME: /usr/local/tomcat
Using CATALINA_TMPDIR: /usr/local/tomcat/temp
Using JRE_HOME: /opt/java/openjdk
Using CLASSPATH:
                        /usr/local/tomcat/bin/bootstrap.jar:/usr/local/tomcat/bin
/tomcat-juli.jar
Using CATALINA OPTS:
NOTE: Picked up JDK_JAVA_OPTIONS: --add-opens=java.base/java.lang=ALL-UNNAMED -
-add-opens=java.base/java.io=ALL-UNNAMED --add-opens=java.base/java.util=ALL-UNN
AMED --add-opens=java.base/java.util.concurrent=ALL-UNNAMED --add-opens=java.rmi
/sun.rmi.transport=ALL-UNNAMED
13-Jan-2023 08:29:54.359 INFO [main] org.apache.catalina.startup.VersionLoggerLi
stener.log Server version name: Apache Tomcat/9.0.70
13-Jan-2023 08:29:54.364 INFO [main] org.apache.catalina.startup.VersionLoggerLi
stener.log Server built:
                                    Dec 1 2022 14:05:47 UTC
13-Jan-2023 08:29:54.364 INFO [main] org.apache.catalina.startup.VersionLoggerLi
stener.log Server version number: 9.0.70.0
13-Jan-2023 08:29:54.365 INFO [main] org.apache.catalina.startup.VersionLoggerLi
stener.log OS Name:
                                    Linux
13-Jan-2023 08:29:54.365 INFO [main] org.apache.catalina.startup.VersionLoggerLi
stener.log OS Version:
                                    5.15.0-57-generic
13-Jan-2023 08:29:54.365 INFO [main] org.apache.catalina.startup.VersionLoggerLi
stener.log Architecture:
                                    amd64
```

- 2. Podemos con: docker ps ver que el contenedor está activado.
- 3. Ahora tenemos que abrir otra terminal y poner docker exec -it <<ID del contenedor>> /bin/bash
- 4. y una vez en tomcat# escribir cp -R webapps.dist/* webapps

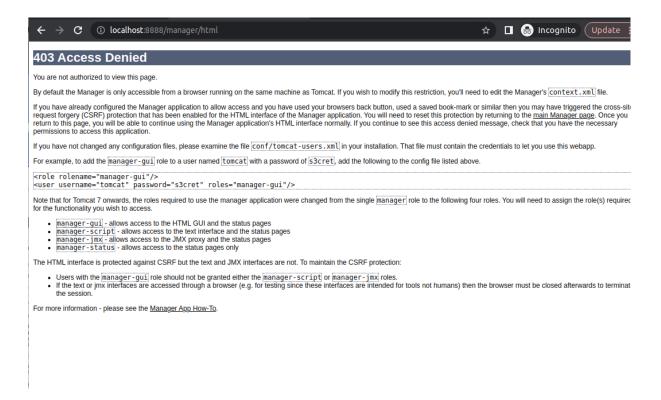
```
estudiante@DAW1:~$ docker ps
CONTAINER ID
                 IMAGE
                                 COMMAND
                                                                            STATUS
                                                         CREATED
ORTS
                                                   NAMES
                                "catalina.sh run"
9e37eb96943a
                 tomcat:9.0
                                                         9 seconds ago
                                                                            Up 8 seconds
.0.0.0:8888->8080/tcp, :::8888->8080/tcp wonderful_chancestudiante@DAW1:~$ docker exec -it 9e37eb96943a /bin/bash
                                                  wonderful_chandrasekhar
root@9e37eb96943a:/usr/local/tomcat# cp -R webapps.dist/* webapps
root@9e37eb96943a:/usr/local/tomcat#
```

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 Ahora podemos comprobar que el servidor tomcat funciona con: localhost:88888 y no deberá salir la página oficial de Apache Tomcat como se muestra abajo en la imagen.



 Después si queremos acceder a localhost:8888/manager/html nos saldrá un error de acceso denegado.



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- 7. Para eliminar este error tendremos que modificar un par de cosas para poder tener acceso. Veamos cómo se hace.
- 8. Lo primero que tenemos que hacer es actualizarlo con: apt update

```
root@17739b19edd0:/usr/local/tomcat# apt update

Get:1 http://security.ubuntu.com/ubuntu jammy-security InRelease [110 kB]

Get:2 http://archive.ubuntu.com/ubuntu jammy InRelease [270 kB]

Get:3 http://archive.ubuntu.com/ubuntu jammy-updates InRelease [114 kB]

Get:4 http://security.ubuntu.com/ubuntu jammy-security/restricted amd64 Pac 659 kB]

Get:5 http://archive.ubuntu.com/ubuntu jammy-backports InRelease [99.8 kB]

Get:6 http://archive.ubuntu.com/ubuntu jammy/restricted amd64 Packages [16-Get:7 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages

Get:8 http://archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [260 Get:9 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages 4,732 B]

Get:10 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [17.5 Get:11 http://archive.ubuntu.com/ubuntu jammy/main amd64 Packages [17.5 Get:12 http://archive.ubuntu.com/ubuntu.com/ubuntu.com/ubuntu.com/ubuntu.com/ubuntu.com/ubuntu.com/ubuntu.com/ubuntu.com/ubuntu.com/ubuntu.
```

9. Y una vez actualizado necesitamos instalar nano, con: apt install nano

```
root@17739b19edd0:/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:
0 upgraded, 1 newly installed, 0 to remove and 5 not upgraded.
Need to get 280 kB of archives.
After this operation, 881 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu jammy/main amd64 nano amd64 6.2-1 [280 kB]
Fetched 280 kB in 0s (1,239 kB/s)
\daggerdebconf: delaying package configuration, since apt-utils is not installed
Selecting previously unselected package nano.
arepsilon(\mathsf{Reading}\ \mathsf{database}\ \ldots\ \mathsf{7923}\ \mathsf{files}\ \mathsf{and}\ \mathsf{directories}\ \mathsf{currently}\ \mathsf{installed.})
Preparing to unpack .../archives/nano_6.2-1_amd64.deb ...
jUnpacking nano (6.2-1) ...
Setting up page
```

10. Una vez instalado nano nos vamos a la ruta usr/local/tomcat/conf/Catalina/localhost# y creamos un archivo llamado manager.xml con nano.

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```
root@17739b19edd0:/usr/local/tomcat# cd ../../../
root@17739b19edd0:/# ls
bin dev home lib32 libx32 mnt proc run srv tmp var
boot etc lib lib64 media opt root sbin sys usr
root@17739b19edd0:/# cd usr/local/tomcat/conf/Catalina/localhost/
root@17739b19edd0:/usr/local/tomcat/conf/Catalina/localhost# nano
```

root@17739b19edd0:/usr/local/tomcat/conf/Catalina/localhost# nano manager.xml root@17739b19edd0:/usr/local/tomcat/conf/Catalina/localhost#

11. Una vez dentro de nano copiamos:

```
<!--
      Licensed to the Apache Software Foundation (ASF) under one or more
      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
      (the "License"); you may not use this file except in compliance with
      the License. You may obtain a copy of the License at
          http://www.apache.org/licenses/LICENSE-2.0
      Unless required by applicable law or agreed to in writing, software
      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 -->
    <Context privileged="true" antiResourceLocking="false"</pre>
    docBase="${catalina.home}/webapps/manager">
<!-- Default set of monitored resources. If one of these changes, the
-->
<!-- web application will be reloaded.
-->
<WatchedResource>WEB-INF/web.xml</WatchedResource>
<WatchedResource>WEB-INF/tomcat-web.xml</WatchedResource>
<WatchedResource>${catalina.base}/conf/web.xml</WatchedResource>
<Valve className="org.apache.catalina.valves.RemoteAddrValve"</pre>
allow="^.*$"/>
    </Context>
    <!-- Uncomment this to disable session persistence across Tomcat
    restarts -->
        <Manager pathname="" />
         -->
```

```
GNU nano 6.2
                                             manager.xml *
  contributor license agreements. See the NOTICE file distributed with this work for additional information regarding copyright ownership.
  (the "License"); you may not use this file except in compliance with
  the License. You may obtain a copy of the License at
      http://www.apache.org/licenses/LICENSE-2.0
  Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS,
  See the License for the specific language governing permissions and
<!-- The contents of this file will be loaded for each web application
<Context privileged="true" antiResourceLocking="false" docBase="${catalina.home}/>
<!-- Default set of monitored resources. If one of these changes, the
               ^O Write Out ^W Where Is
^G Help
                                              ^K Cut
                                                                              ^C Location
                                                                 Execute
   Exit
               ^R Read File <mark>^\</mark> Replace
                                                  Paste
                                                                  Justify
                                                                                 Go To Line
```

12. Después nos tendremos que ir hacia atrás al conf/ y abrir el archivo tomcat-users.xml y agregar

```
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
 examples web application, do not forget to remove the <!.. ..> that surround
 them. You will also need to set the passwords to something appropriate.
 <rote rote rote rame="comcat" />
<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"/>
</tomcat-users>
                 ^O Write Out ^W Where Is
  Help
                                                   ^K Cut
                                                                        Execute
                                                                                          Location
                    Read File ^\ Replace
                                                       Paste
                                                                         Justify
                                                                                          Go To Line
```

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13. Una vez modificado el archivo ya podemos ingresar con nombre y contraseña : tomcat y nos mostrará la siguiente pantalla.

