3. Comprobaciones

3.1 Comprueba que el servidor está iniciado y escuchando en el puerto 8080/TCP.

```
root@sriserver:/home/alumno# ps –ef | grep tomcat
                                      ? 00:00:06 /usr/lib/jvm/default–java/bin/java –Djava.util.
9/conf/logging.properties –Djava.util.logging.manager=org.apache.
<mark>tomcat</mark> 2205 1 4
ogging.config.file=/var/lib/
                          1 4 14:56 ?
uli.ClassLoaderLogManager –Djava.awt.headless=true –Djdk.tls.ephemeralDHKeySize=2048 –Djava.protocoj
handler.pkgs=org.apache.catalina.webresources –Dorg.apache.catalina.security.SecurityListener.UMASk.
=0027 –Dignore.endorsed.dirs= –classpath /usr/share/to
                                                                 t9/bin/bootstrap.jar:/usr/share/
                                                                                                             9/bir
                                                    at9 –Dcatalina.home=/usr/share/1
       -juli.jar -Dcatalina.base=/var/lib/tomc
                                                                                              :9 –Djava.io.tmpdi
r=/tmp org.apache.catalina.startup.Bootstrap start
                     1049 0 14:59 pts/0 00:00:00 grep --color=auto tomo
root
             2366
```

3.2 Consulta el contenido del directorio

```
root@sriserver:/home/alumno# /var/lib/tomcat9/webapps/ROOT/
bash: /var/lib/tomcat9/webapps/ROOT/: Is a directory
root@sriserver:/home/alumno# ls –l
total 8
drwxrwxrwx 2 root root 4096 oct 11 18:18 mountes
drwxr–xr–x 2 root root 4096 oct 11 19:07 public–html
```

3.3 Consulta el contenido del fichero

```
GNU nano 6.2
                                  /var/lib/tomcat9/webapps/ROOT/index.html
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN"</pre>
   http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
(head>
   <title>Apache Tomcat</title>
<h1>It works !</h1>
\(\text{f}\) you're seeing this page via a web browser, it means you've setup Tomcat successfully. Congrat\(\text{}\)
p>This is the default Tomcat home page. It can be found on the local filesystem at: <code>/var/lib>
(p>Tomcat veterans might be pleased to learn that this system instance of Tomcat is installed with 🔀
p>You might consider installing the following packages, if you haven't already done so:
(p><b>tomcat9–docs</b>:This package installs a web application that allows to browse the Tomcat 9 >
p><b>tomcat9–examples</b>: This package installs a web application that allows to access the Tomca<mark>></mark>
p><b>tomcat9–admin</b>: This package installs two web applications that can help managing this Tom>
(p>NOTE: For security reasons, using the manager webapp is restricted to users with role "manager–g>
7hndu>
```

3.4 Establece una conexión desde la máquina host



It works!

If you're seeing this page via a web browser, it means you've setup Tomcat successfully. Congratulations!

This is the default Tomcat home page. It can be found on the local filesystem at: /var/lib/tomcat9/webapps/ROOT/index.html

Tomcat veterans might be pleased to learn that this system instance of Tomcat is installed with CATALINA HOME in /usr/share/tomcat9 and CATALINA_BASE in /var/lib/tomcat9, following the rules from /usr/share/doc/tomcat9-common/RUNNING.txt.gz.

You might consider installing the following packages, if you haven't already done so:

tomcat9-docs: This package installs a web application that allows to browse the Tomcat 9 documentation locally. Once installed, you can access it by clicking here.

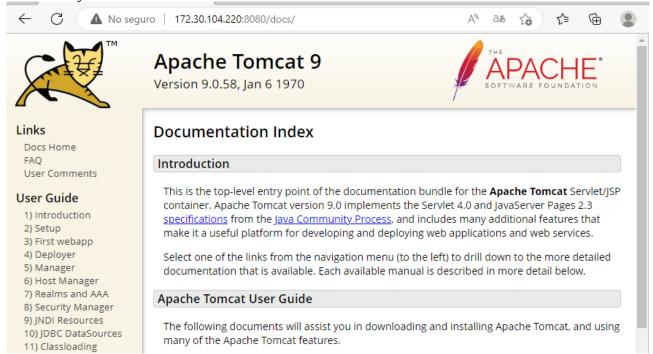
tomcat9-examples: This package installs a web application that allows to access the Tomcat 9 Servlet and JSP examples. Once installed, you can access it by clicking here.

tomcat9-admin: This package installs two web applications that can help managing this Tomcat instance. Once installed, you can access the manager webapp and the host-manager webapp.

NOTE: For security reasons, using the manager webapp is restricted to users with role "manager-gui". The host-manager webapp is restricted to users with role "admin-gui". Users are defined in /etc/tomcat9/tomcat-users.xml.

4. Instalación Documentación y Ejemplos

4.1 Instala y accede a la documentación



4.2 Instala y accede a los ejemplos



- Servlets examples
- JSP Examples
- WebSocket Examples



This is a collection of examples which demonstrate some of the more frequently used parts of the Servlet API. Familiarity with the Java(tm) Programming Language is assumed.

These examples will only work when viewed via an http URL. They will not work if you are viewing these pages via a "file://..." URL. Please refer to the *README* file provide with this Tomcat release regarding how to configure and start the provided web server.

4.5 Consulta los ficheros locales de documentación y ejemplos (necesitarás permisos)

```
GNU nano 6.2

<?xml version="1.0" encoding="UTF-8"?>
<!--
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 2.0
(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

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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.
-->

<Context path="/docs"
docBase="/usr/share/tomcat9-docs/docs"
antiResourceLocking="false" />
```

4.6 Consulta el directorio local de documentación

```
root@sriserver:/var/lib/tomcat9/conf/Catalina/localhost# ls -l /usr/share/tomcat9-docs/
total 4
drwxr-xr-x 15 root root 4096 nov 9 15:06 docs
```

4.6 Consulta el directorio local de ejemplos

```
root@sriserver:/var/lib/tomcat9/conf/Catalina/localhost# ls –l /usr/share/tomcat9–examples/
total 4
drwxr–xr–x 7 root root 4096 nov  9 15:07 examples
```

4.7 Examina el contenido del servlet

```
GNU nano 6.2
                                  /usr/share/tomcat9-examples/examples/servlets/helloworld.html
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 2.0 (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.
(head>
title>Untitled Document</title>
                          "Content–Type" content="text/html; charset=iso–8859–1">
(meta http-equiv=
(body bgcolor="#FFFFFF">
'p><font color="#0000FF"><a href="servlet/HelloWorldExample"><img src="images/execute.gif" align="r>
\(h3\)Source Code for HelloWorld Example<font color="#0000FF"><br>
<font color="#0000FF">import</font> java.io.*;
<font color="#0000FF">import</font> javax.servlet.*;
<font color="#0000FF">import</font> javax.servlet.http.*;
font color="#0000FF">public class</font> HelloWorld <font color="#0000FF">extends</font> HttpServl>
```

5. Estructura de Directorios

5.2.- Consulta el directorio /usr/share/tomcat9 (CATALINA_HOME)

```
root@sriserver:/var/lib/tomcat9/conf/Catalina/localhost# ls –l /usr/share/tomcat9
total 20
drwxr–xr–x 2 root root 4096 nov 9 14:56 bin
–rw–r––r– 1 root root 1017 jul 19 19:04 default.template
drwxr–xr–x 2 root root 4096 nov 9 14:56 etc
drwxr–xr–x 2 root root 4096 nov 9 14:56 lib
–rw–r––r– 1 root root 149 jul 19 19:43 logrotate.template
```

5.3.- Consulta el directorio: /var/lib/tomcat9 (CATALINA_BASE)

```
root@sriserver:/var/lib/tomcat9/conf/Catalina/localhost# ls –l /var/lib/tomcat9/
total 12
                             12 jul 20 19:05 conf -> /etc/tomcat9
lrwxrwxrwx 1 root
                    root
drwxr–xr–x 2 tomcat tomcat 4096 jul 20 19:05 lib
                             17 jul 20 19:05 logs -> ../../log/tomcat9
lrwxrwxrwx 1 root
                    root
drwxr–xr–x 2 root
                                     9 14:56 policy
                           4096 nov
                    root
                                     9 14:56 webapps
drwxrwxr–x 3 tomcat tomcat 4096 nov
                             19 jul 20 19:05 work -> ../../cache/tomcat9
lrwxrwxrwx 1 root
                    root
```

6.1.- Consulta el directorio /var/lib/tomcat9/conf o /etc/tomcat9

```
root@sriserver:/var/lib/tomcat9/conf/Catalina/localhost# ls –l /var/lib/tomcat9/conf
lrwxrwxrwx 1 root root 12 jul 20 19:05 /var/lib/tomcat9/conf –> /etc/tomcat9
```

6.2.- Edita el fichero server.xml y analiza su contenido. ¿En qué manera se refleja esa arquitectura en el fichero?

Escucha las diferentes páginas web definidas en las listener class