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Ejercicios Tema 01

7) Instalar el servidor de aplicaciones Tomcat y comprobar que funciona (tanto en Ubuntu como en Windows). Indicar los pasos y comandos implicados (documentar el proceso de instalación).

Paso 1:

Instalamos Apache tomcat y comprobamos el status de dicho servicio.

```
systematl restart tomat9.service
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
 °sc@ubuntuserver:~$ systemctl status tomcat9.service
   tomcat9.service - Apache Tomcat 9 Web Application Server
        Loaded: loaded (/lib/systemd/system/tomcat9.service; enabled; vendor preset: enabled)
        Active: active (running) since Thu 2023–09–28 08:59:50 UTC; 16s ago
Docs: https://tomcat.apache.org/tomcat-9.0-doc/index.html
      Process: 4000 ExecStartPre=/usr/libexec/tomcat9/tomcat-update-policy.sh (code=exited, status=0/)
     Main PID: 4004 (java)
          Tasks: 28 (limit: 2221)
        Memory: 92.6M
CPU: 11.744s
        CGroup: /system.slice/tomcat9.service
└─4004 /usr/lib/jvm/default–java/bin/java –Djava.util.logging.config.file=/var/lib/tom>
sep 28 09:00:01 ubuntuserver tomcat9[4004]: Deployment of deployment descriptor [/etc/tomcat9/Catal>
sep 28 09:00:01 ubuntuserver tomcat9[4004]: Desplieque del descriptor de configuración [/etc/tomcat>
sep 28 09:00:01 ubuntuserver tomcat9[4004]: <mark>The path attribute with value [/host-manager] in deploy></mark>
sep 28 09:00:02 ubuntuserver tomcat9[4004]: Al menos un JAR, que se ha explorado buscando TLDs, aún>
sep 28 09:00:02 ubuntuserver tomcat9[4004]: Deployment of deployment descriptor [/etc/tomcat9/Catal
sep 28 09:00:02 ubuntuserver tomcat9[4004]: Desplegando el directorio [/var/lib/tomcat9/webapps/ROD sep 28 09:00:04 ubuntuserver tomcat9[4004]: Al menos un JAR, que se ha explorado buscando TLDs, aún sep 28 09:00:04 ubuntuserver tomcat9[4004]: Deployment of web application directory [/var/lib/tomcap 28 09:00:04 ubuntuserver tomcat9[4004]: Deployment of web application directory [/var/lib/tomcap 28 09:00:04 ubuntuserver tomcat9[4004]: Starver et processor of Handley ["http-nices 20080"]
sep 28 09:00:04 ubuntuserver tomcat9[4004]: Server startup in [8530] milliseconds
lines 1–22/22 (END)
```

Paso 2:

Modificamos el archivo de users para crear un usuario con los roles para admin-gui y manager-gui

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Paso 3:

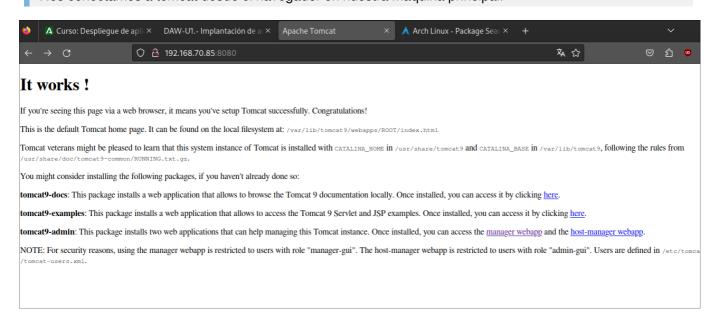
Comentamos la linea de RemoteAddrValve

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```
GNU nano 6.2
                                            /usr/share/tomcat9-admin/manager/META-INF/context.xml *
  xml version="1.0
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        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.
<Valve className="org.apache.catalina.valves.RemoteAddrValve"</p>
              allow="127\.\d+\.\d+\.\d+|::1|0:0:0:0:0:0:0:1" /
  <Manager sessionAttributeValueClassNameFilter="java\.lang\.(?:Boolean|Integer|Long|Number|String)>
 /Context>
                           Write Out
                                                                                                                             Location
                                                                                                                                                       Undo
                                                    Where Is
                                                                            Cut
                                                                                                     Execute
                                                                                                                                                 M-H
   Help
                            Read File
   Exit
                                                    Replace
                                                                            Paste
                                                                                                     Justify
                                                                                                                             Go To Line
                                                                                                                                                        Redo
```

Paso 4:

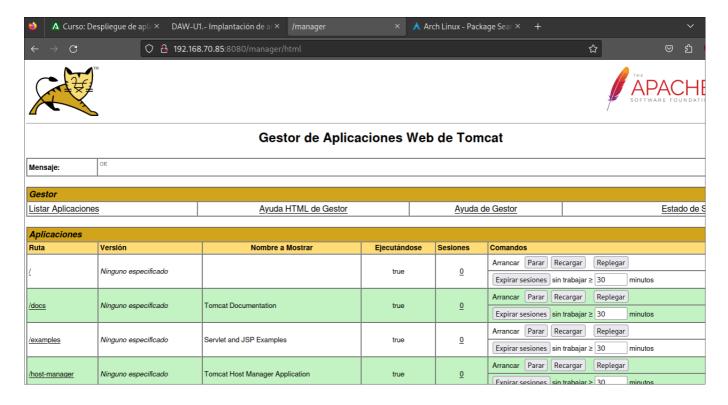
Nos conectamos a tomcat desde el navegador en nuestra máquina principal.



Paso 5:

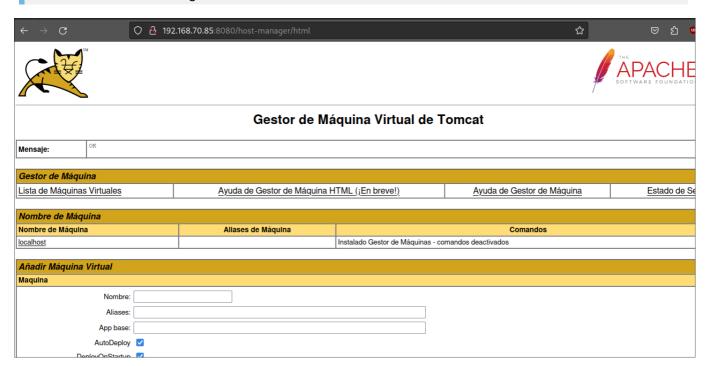
Accedemos al admin-gui.

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Paso 6:

Accedemos al host-manager.



8) Instalar y configurar de manera segura el servicio SSH. Conectar al servidor de distintas formas. Indicar los pasos y comandos implicados (documentar el proceso de instalación y configuración).

Paso 1:

Actualizamos el sistema e instalamos ssh, una vez instalado le hacemos status para comprobar si esta operativo.

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```
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
rsc@ubuntuserver:~$
rsc@ubuntuserver:~$ systemctl status ssh
 ssh.service - OpenBSD Secure Shell server
     Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: enabled)
     Active: active (running) since Thu 2023-10-05 06:48:53 UTC; 11min ago
       Docs: man:sshd(8)
             man:sshd_config(5)
   Main PID: 763 (sshd)
Tasks: 1 (limit: 2221)
     Memory: 3.9M
        CPU: 80ms
     CGroup: /system.slice/ssh.service
└─763 "sshd: /usr/sbin/sshd -D [listener] 0 of 10–100 startups"
oct O5 O6:48:48 ubuntuserver systemd[1]: Starting OpenBSD Secure Shell server...
oct 05 06:48:53 ubuntuserver sshd[763]: Server listening on 0.0.0.0 port 22.
oct O5 O6:48:53 ubuntuserver sshd[763]: Server listening on :: port 22.
oct 05 06:48:53 ubuntuserver systemd[1]: Started OpenBSD Secure Shell server.
rsc@ubuntuserver:~$ _
```

Paso 2:

Nos conectamos desde nuestra máquina principal al servidor, cambiamos previamente el puerto por defecto por el 3326. ssh -p 3326 rsc@192.168.78.85.

```
47.0% of 13.67GB
                                 Users logged in:
 Memory usage: 22%
                                 IPv4 address for enp0s3: 192.168.70.85
 Swap usage:
* Strictly confined Kubernetes makes edge and IoT secu
re. Learn how MicroK8s
  just raised the bar for easy, resilient and secure K8s cluster deployment.
  https://ubuntu.com/engage/secure-kubernetes-at-the-edge
El mantenimiento de seguridad expandido para Applications está desactivado
Se pueden aplicar 5 actualizaciones de forma inmediata.
5 de estas son actualizaciones de seguridad estándares.
Para ver estas actualizaciones adicionales, ejecute: apt list --upgradable
 actualizaciones de seguridad adicionales se pueden aplicar con ESM Apps.
Aprenda más sobre cómo activar el servicio ESM Apps at https://ubuntu.com/esm
*** System restart required ***
rsc@ubuntuserver:~$
```