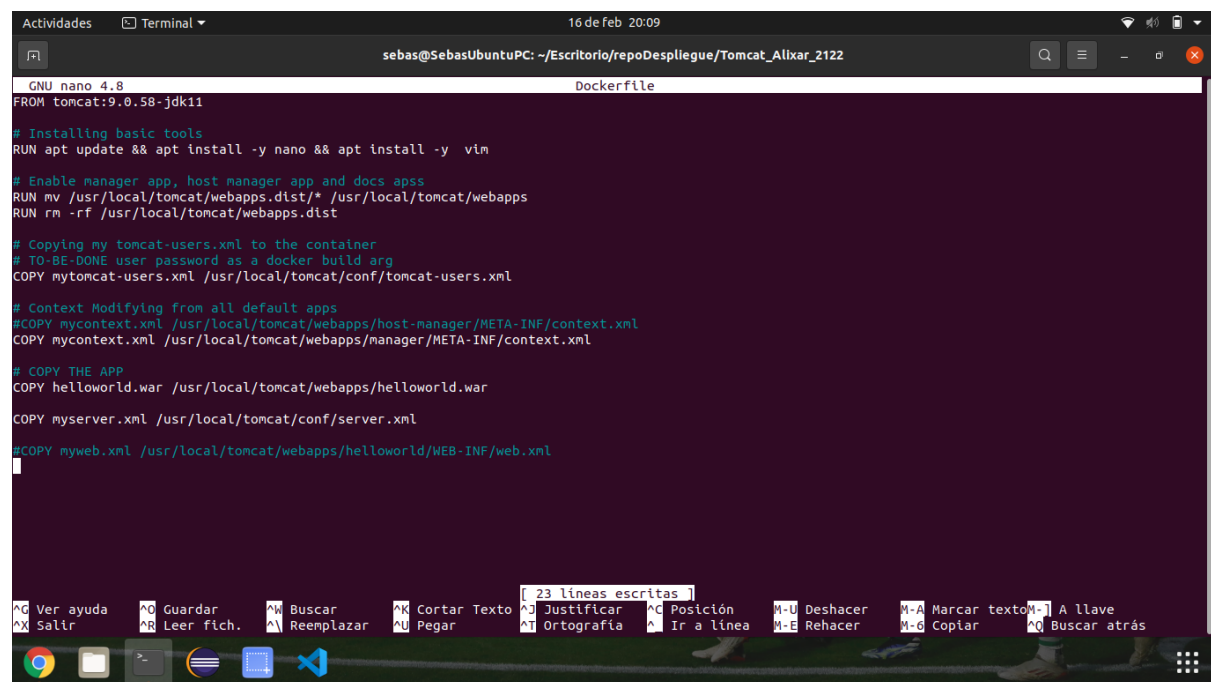


```
sebas@SebasUbuntuPC:~/Escritorio/repoDespliegue/Tomcat_Alixa_2122$ ls
Dockerfile  helloworld.war  mycontext.xml  mytomcat-users.xml  README.md
sebas@SebasUbuntuPC:~/Escritorio/repoDespliegue/Tomcat_Alixa_2122$ sudo nano Dockerfile
```

Creamos los archivos myserver.xml y myweb.xml.

```
sebas@SebasUbuntuPC:~/Escritorio/repoDespliegue/Tomcat_Alixa_2122$ ls
Dockerfile      mycontext.xml  mytomcat-users.xml  README.md
helloworld.war  myserver.xml   myweb.xml
sebas@SebasUbuntuPC:~/Escritorio/repoDespliegue/Tomcat_Alixa_2122$
```

Ponemos estos archivos en el Dockerfile



The screenshot shows a terminal window with the nano text editor open, editing a file named 'Dockerfile'. The content of the Dockerfile is as follows:

```
GNU nano 4.8 Dockerfile
FROM tomcat:9.0.58-jdk11

# Installing basic tools
RUN apt update && apt install -y nano && apt install -y vim

# Enable manager app, host manager app and docs app
RUN mv /usr/local/tomcat/webapps.dist/* /usr/local/tomcat/webapps
RUN rm -rf /usr/local/tomcat/webapps.dist

# Copying my tomcat-users.xml to the container
# TO-BE-DONE user password as a docker build arg
COPY mytomcat-users.xml /usr/local/tomcat/conf/tomcat-users.xml

# Context Modifying from all default apps
#COPY mycontext.xml /usr/local/tomcat/webapps/host-manager/META-INF/context.xml
COPY mycontext.xml /usr/local/tomcat/webapps/manager/META-INF/context.xml

# COPY THE APP
COPY helloworld.war /usr/local/tomcat/webapps/helloworld.war

COPY myserver.xml /usr/local/tomcat/conf/server.xml

#COPY myweb.xml /usr/local/tomcat/webapps/helloworld/WEB-INF/web.xml
```

The terminal window title is 'sebas@SebasUbuntuPC: ~/Escritorio/repoDespliegue/Tomcat_Alixa_2122'. The bottom of the window shows a standard Linux desktop environment with a taskbar containing icons for Chrome, Files, Applications, and other utilities. A status bar at the very bottom displays various keyboard shortcuts for nano, such as 'Ver ayuda', 'Guardar', 'Buscar', etc.

Cambiamos el Alias, Valve y Context del Host.

```
GNU nano 4.8 myserver.xml Modificado
<!-- Access log processes all example.
Documentation at: /docs/config/valve.html
Note: The pattern used is equivalent to using pattern="common" -->
<Valve className="org.apache.catalina.valves.AccessLogValve" directory="logs"
       prefix="localhost_access_log" suffix=".txt"
       pattern="%h %l %u %t &quot;%r&quot; %s %b" />

</Host>

<Host name="dawsebas.org" appBase="webapps"
      unpackWARs="true" autoDeploy="true">
  <Alias>www.dawsebas.org</Alias>

  <!-- SingleSignOn valve, share authentication between web applications
  Documentation at: /docs/config/valve.html -->
  <!--
  <Valve className="org.apache.catalina.authenticator.SingleSignOn" />
  -->

  <!-- Access log processes all example.
  Documentation at: /docs/config/valve.html
  Note: The pattern used is equivalent to using pattern="common" -->
  <Valve className="org.apache.catalina.valves.AccessLogValve" directory="logs"
        prefix="sebas_access_log" suffix=".txt"
        pattern="%h %l %u %t &quot;%r&quot; %s %b" />
  <Context path="" docBase="/usr/local/tomcat/webapps/helloworld" debug="0" reloadable="true" />

</Host>
</Engine>
```

Agregamos los nuevos hosts

```
GNU nano 4.8 /etc/hosts
127.0.0.1 localhost
127.0.1.1 SebasUbuntuPC
127.0.0.1 bermudezherrera.edu
127.0.0.1 www.bermudezherrera.edu
127.0.0.1 dawsebas.org
127.0.0.1 www.dawsebas.org

# The following lines are desirable for IPv6 capable hosts
::1 ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```

```
<Connector
  protocol="org.apache.coyote.http11.Http11NioProtocol"
  port="8443" maxThreads="200"
  scheme="https" secure="true" SSLEnabled="true"
  keystoreFile="/usr/local/tomcat/conf/.keystore" keystorePass="tomcat"
  clientAuth="false" sslProtocol="TLS"/>
```

```
sebas@SebasUbuntuPC:~/Escritorio/repoDespliegue/Tomcat_Alixar_2122$ sudo docker build -t sebas/tomcat_2122v3 .
Sending build context to Docker daemon 2.39MB
Step 1/8 : FROM tomcat:9.0.58-jdk11
```

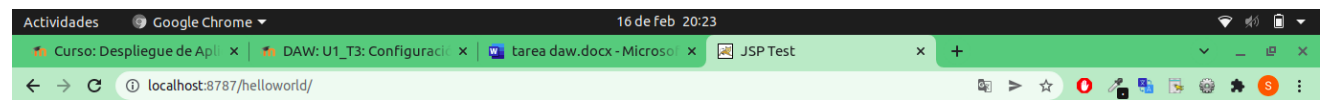
```
sebas@SebasUbuntuPC:~/Escritorio/repoDespliegue/Tomcat_Alixar_2122$ sudo docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
sebas/tomcat_2122v3 latest              072eda5852e2       8 minutes ago      742MB
tomcat               9.0.58-jdk11       270090fa0477       12 days ago        680MB
postgres             latest             da2c649d7a8d       2 weeks ago        374MB
```

Creamos el nuevo contenedor

```
sebas@SebasUbuntuPC:~/Escritorio/repoDespliegue/Tomcat_Alixar_2122$ sudo docker run -it -d --name tomcatv4 -p 8787:8080 -p 5443:8443 sebas/tomcat_2122v3
8fdece75dcd2b65f45494eb99e3a909fba8ff2ab914382a8eeceabc8e4aa7422
sebas@SebasUbuntuPC:~/Escritorio/repoDespliegue/Tomcat_Alixar_2122$ sudo docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
8fdece75dcd2	sebas/tomcat_2122v3	"catalina.sh run"	2 minutes ago	Up 2 minutes	0.0.0.0:8787->8080/tcp, :::8787->8080/tcp, 0.0.0.0:5443->8443/tcp, :::5443->8443/tcp
46210bd6cfb0	postgres	"docker-entrypoint.s..."	5 days ago	Up 52 minutes	0.0.0.0:5432->5432/tcp, :::5432->5432/tcp
62aef674e830	dpage/pgadmin4	pg_container "/entrypoint.sh"	5 days ago	Up 52 minutes	443/tcp, 0.0.0.0:5050->80/tcp, :::5050->80/tcp

```
sebas@SebasUbuntuPC:~/Escritorio/repoDespliegue/Tomcat_Alixar_2122$
```

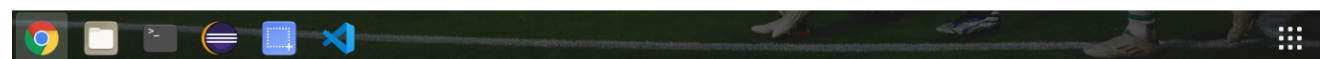


Hello World

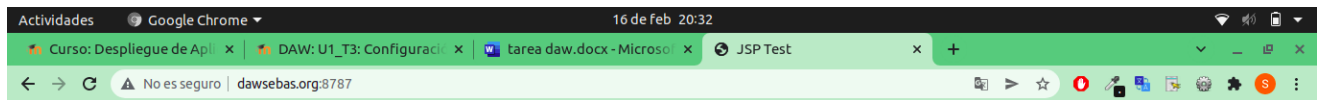
If you see this, the example war-file was correctly deployed! Congrats!

Wed Feb 16 19:22:18 UTC 2022

You are from 172.17.0.1



Por www.dawsebas.org

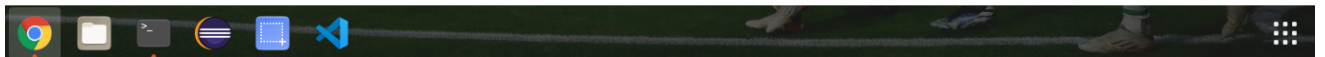


Hello World

If you see this, the example war-file was correctly deployed! Congrats!

Wed Feb 16 19:32:17 UTC 2022

You are from 172.17.0.1



```
sebas@SebasUbuntuPC:~/Escritorio/repoDespliegue/Tomcat_Alixar_2122$ sudo docker exec -it tomcatv4 /bin/bash
root@8fdece75dcd2:/usr/local/tomcat# keytool -genkey -alias tomcatv4 -keyalg RSA
```

```
root@8fdece75dcd2:/usr/local/tomcat# keytool -genkey -alias tomcatv4 -keyalg RSA
Enter keystore password:
Re-enter new password:
What is your first and last name?
[Unknown]:
What is the name of your organizational unit?
[Unknown]:
What is the name of your organization?
[Unknown]:
What is the name of your City or Locality?
[Unknown]:
What is the name of your State or Province?
[Unknown]:
What is the two-letter country code for this unit?
[Unknown]:
Is CN=Unknown, OU=Unknown, O=Unknown, L=Unknown, ST=Unknown, C=Unknown correct?
[no]: y
root@8fdece75dcd2:/usr/local/tomcat#
```

```
root@8fdece75dcd2:/usr/local/tomcat# cd
root@8fdece75dcd2:~# ls -la
total 28
drwx----- 1 root root 4096 Feb 16 19:48 .
drwxr-xr-x 1 root root 4096 Feb 16 19:17 ..
-rw----- 1 root root  10 Feb 16 19:46 .bash_history
-rw-r--r-- 1 root root  571 Apr 10 2021 .bashrc
-rw-r--r-- 1 root root 2733 Feb 16 19:48 .keystore
-rw-r--r-- 1 root root  161 Jul  9 2019 .profile
-rw-r--r-- 1 root root  165 Feb  3 20:34 .wget-hsts
root@8fdece75dcd2:~#
```

```
root@4cfcb11fe4b9:~# mv .keystore /usr/local/tomcat/conf/
root@4cfcb11fe4b9:~#
```