

TAREA 2.2: INTEGRACIÓN DE APACHE TOMCAT CON APACHE WEB SERVER

**Alumno:
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2º DAW

```
penni@penniserver: ~  
GNU nano 7.2 /var/www/html/miprimerervlet/index.html  
    <html>  
    <head></head>  
    <body>  
        <h1>Matias Pennino</h1>  
        <a href="/apptarea/">Ver Aplicacion</a>  
    </body>  
</html>
```

Creamos el directorio miprimerervlet en la carpeta /var/www/html y creamos un index.html ahi

```
penni@penniserver: ~  
penni@penniserver:~$ sudo cp /etc/apache2/sites-available/000-default.conf /etc/apache2/sites-available/miprimerervlet.conf  
penni@penniserver:~$ sudo ls -la /etc/apache2/sites-available/  
total 64  
drwxr-xr-x 2 root root 4096 nov 28 10:15 .  
drwxr-xr-x 8 root root 4096 nov 28 10:03 ..  
-rw-r--r-- 1 root root 1286 oct 10 08:34 000-default.conf  
-rw-r--r-- 1 root root 1286 sep 26 09:15 000-default.conf_original  
-rw-r--r-- 1 root root 4573 mar 18 2024 default-ssl.conf  
-rw-r--r-- 1 root root 1416 nov 28 09:48 intranet.conf  
-rw-r--r-- 1 root root 1346 oct 10 09:34 loki.conf  
-rw-r--r-- 1 root root 1360 oct 10 08:49 loseternos.conf  
-rw-r--r-- 1 root root 1286 nov 28 10:15 miprimerervlet.conf  
-rw-r--r-- 1 root root 1367 oct 10 08:57 panteranegra2.conf  
-rw-r--r-- 1 root root 1414 nov 28 09:47 tareaubuntu.conf  
-rw-r--r-- 1 root root 4630 oct 15 12:22 tareaubuntu-ssl.conf  
-rw-r--r-- 1 root root 4633 oct 17 09:09 webticketing.conf  
penni@penniserver:~$ sudo nano /etc/apache2/sites-available/miprimerervlet.conf  
penni@penniserver:~$
```

Copiamos el archivo 000-default.conf para configurar el de nuestro proyecto

```
penni@penniserver: ~  
GNU nano 7.2 /etc/apache2/sites-available/miprimerervlet.conf *  
<VirtualHost *:80>  
    # The ServerName directive sets the request scheme, hostname and port that  
    # the server uses to identify itself. This is used when creating  
    # redirection URLs. In the context of virtual hosts, the ServerName  
    # specifies what hostname must appear in the request's Host: header to  
    # match this virtual host. For the default virtual host (this file) this  
    # value is not decisive as it is used as a last resort host regardless.  
    # However, you must set it for any further virtual host explicitly.  
    #ServerName www.example.com  
  
    ServerAdmin webmaster@localhost  
    DocumentRoot /var/www/html/miprimerervlet/  
    ServerName miprimerervlet.local  
    ServerAlias www.miprimerervlet.local  
  
    JkMount /apptarea worker1  
    JkMount /apptarea/* worker1  
    # Available loglevels: trace8, ..., trace1, debug, info, notice, warn,  
    # error, crit, alert, emerg.  
    # It is also possible to configure the loglevel for particular  
    # modules, e.g.  
    #LogLevel info ssl:warn  
  
    ErrorLog ${APACHE_LOG_DIR}/error.log  
    CustomLog ${APACHE_LOG_DIR}/access.log combined  
  
    # For most configuration files from conf-available/, which are  
    # enabled or disabled at a global level, it is possible to  
    # include a line for only one particular virtual host. For example the  
    # following line enables the CGI configuration for this host only  
    # after it has been globally disabled with "a2disconf".  
    #Include conf-available/serve-cgi-bin.conf  
</VirtualHost>
```

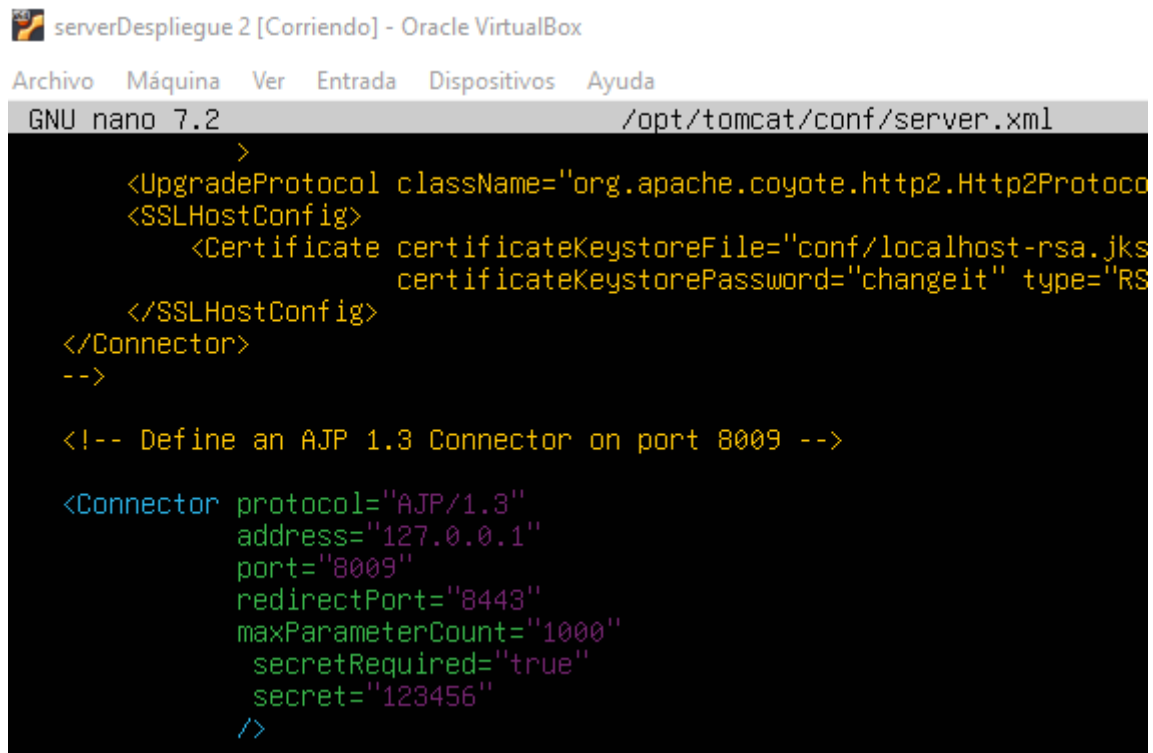
Asi quedaria configurado el archivo ya incluyendo el worker para tomcat que configuraremos mas tarde

```
penni@penniserver: ~  
penni@penniserver:~$ sudo cp -r /opt/tomcat/webapps/helloworld/ /opt/tomcat/webapps/apptarea  
penni@penniserver:~$ sudo nano /opt/tomcat/webapps/apptarea/index.jsp  
penni@penniserver:~$
```

Creo el directorio de apptarea copiando el directorio de un proyecto anterior y borro sus datos

```
GNU nano 7.2 /opt/tomcat/webapps/apptarea/index.jsp  
<html>  
  <head>  
    <title>App tarea</title>  
    <%= String nombre = "Matias Pennino";%>  
  </head>  
  <body>  
    <h1>Aplicacion de mi primer servlet</h1>  
    <p> Yo soy <%= nombre%> </p>  
    <p> La suma de 2 + 2 es: <%= 2+2%></p>  
  </body>  
</html>
```

Asi quedaria el archivo index.jsp

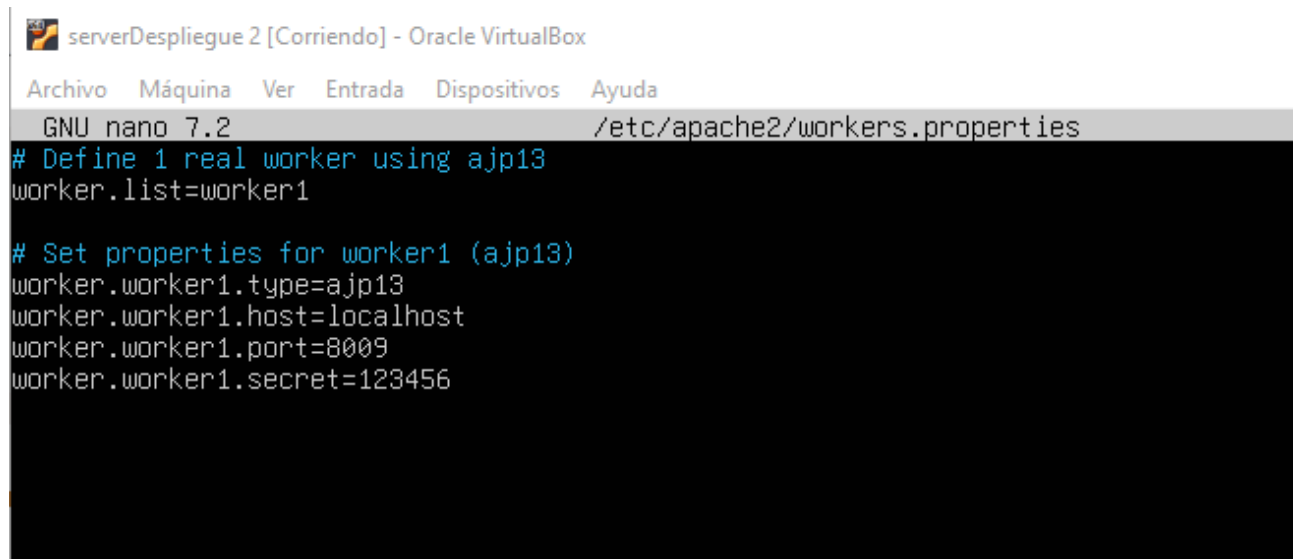


```
serverDespliegue 2 [Corriendo] - Oracle VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda
GNU nano 7.2 /opt/tomcat/conf/server.xml
>
    <UpgradeProtocol className="org.apache.coyote.http2.Http2Protocol" />
    <SSLHostConfig>
        <Certificate certificateKeystoreFile="conf/localhost-rsa.jks"
            certificateKeystorePassword="changeit" type="RSA" />
    </SSLHostConfig>
</Connector>
-->

<!-- Define an AJP 1.3 Connector on port 8009 -->

<Connector protocol="AJP/1.3"
    address="127.0.0.1"
    port="8009"
    redirectPort="8443"
    maxParameterCount="1000"
    secretRequired="true"
    secret="123456"
/>
```

Defino el conector AJP para que tomcat se pueda comunicar con apache



```
serverDespliegue 2 [Corriendo] - Oracle VirtualBox
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GNU nano 7.2 /etc/apache2/workers.properties
# Define 1 real worker using ajp13
worker.list=worker1

# Set properties for worker1 (ajp13)
worker.worker1.type=ajp13
worker.worker1.host=localhost
worker.worker1.port=8009
worker.worker1.secret=123456
```

Creo el worker que se nombro en el archivo .conf

```
GNU nano 7.2 /etc/apache2/apache2.conf
#
# Note that the use of %{X-Forwarded-For}i instead of %h is not recommended.
# Use mod_remoteip instead.
#
LogFormat "%v:%p %h %l %u %t \"%r\" %>s %O \"%{Referer}i\" \"%{User-Agent}i\"" combined
LogFormat "%h %l %u %t \"%r\" %>s %O \"%{Referer}i\" \"%{User-Agent}i\"" combined
LogFormat "%h %l %u %t \"%r\" %>s %O" common
LogFormat "%{Referer}i -> %U" referer
LogFormat "%{User-agent}i" agent

# Include of directories ignores editors' and dpkg's backup files,
# see README.Debian for details.

# Include generic snippets of statements
IncludeOptional conf-enabled/*.conf

# Include the virtual host configurations:
IncludeOptional sites-enabled/*.conf

JkWorkersFile /etc/apache2/workers.properties


# Where to put jk shared memory
JkShmFile /var/log/apache2/mod_jk.shm

# Where to put jk logs
JkLogFile /var/log/apache2/mod_jk.log

# Set the jk log level [debug/error/info]
JkLogLevel info

# Select the timestamp log format
JkLogStampFormat "[%a %b %d %H:%M:%S %Y]"
```

Configuramos el apache2.conf para que utilice el worker que ya definimos

 serverDespliegue 2 [Corriendo] - Oracle VirtualBox
Archivo Máquina Ver Entrada Dispositivos Ayuda
GNU nano 7.2 /etc/apache2/mods-available/jk.conf *
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The ASF licenses this file to You under the Apache License, Version 2.0
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Configuration Example for mod_jk
used in combination with Apache 2.2.x

<IfModule jk_module>

We need a workers file exactly once
and in the global server
JkWorkersFile /etc/libapache2-mod-jk/workers.properties

Comentamos la línea donde se indica que apache utilizará el archivo de workers predeterminado para que no haya problemas con el nuestro. Luego reiniciamos apache y tomcat con el comando **systemctl restart** y todo debería estar funcionando

hosts: Bloc de notas

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```
# Copyright (c) 1993-2009 Microsoft Corp.
#
# This is a sample HOSTS file used by Microsoft TCP/IP for Windows.
#
# This file contains the mappings of IP addresses to host names. Each
# entry should be kept on an individual line. The IP address should
# be placed in the first column followed by the corresponding host name.
# The IP address and the host name should be separated by at least one
# space.
#
# Additionally, comments (such as these) may be inserted on individual
# lines or following the machine name denoted by a '#' symbol.
#
# For example:
#
#       102.54.94.97       rhino.acme.com          # source server
#       38.25.63.10       x.acme.com              # x client host


# localhost name resolution is handled within DNS itself.
#       127.0.0.1         localhost
#       ::1               localhost


192.168.56.101           www.miprimerervlet.local
```

En la maquina virtual configuramos la direccion ip del host para que nos permita acceder a la pagina por nombre

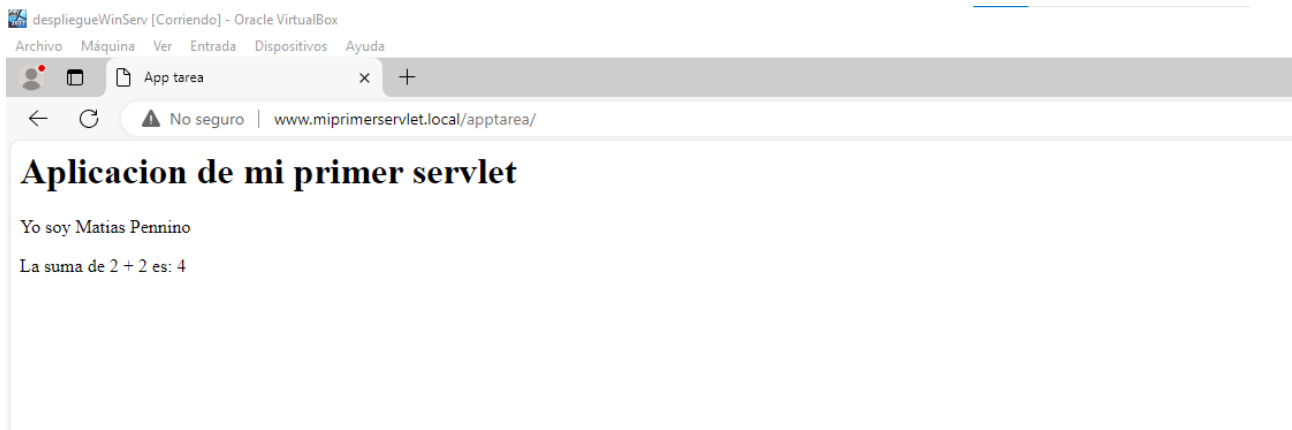
despliegueWinServ [Corriendo] - Oracle VirtualBox

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miprimerervlet.local x +
No seguro | www.miprimerervlet.local

Matias Pennino

[Ver Aplicacion](#)



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