

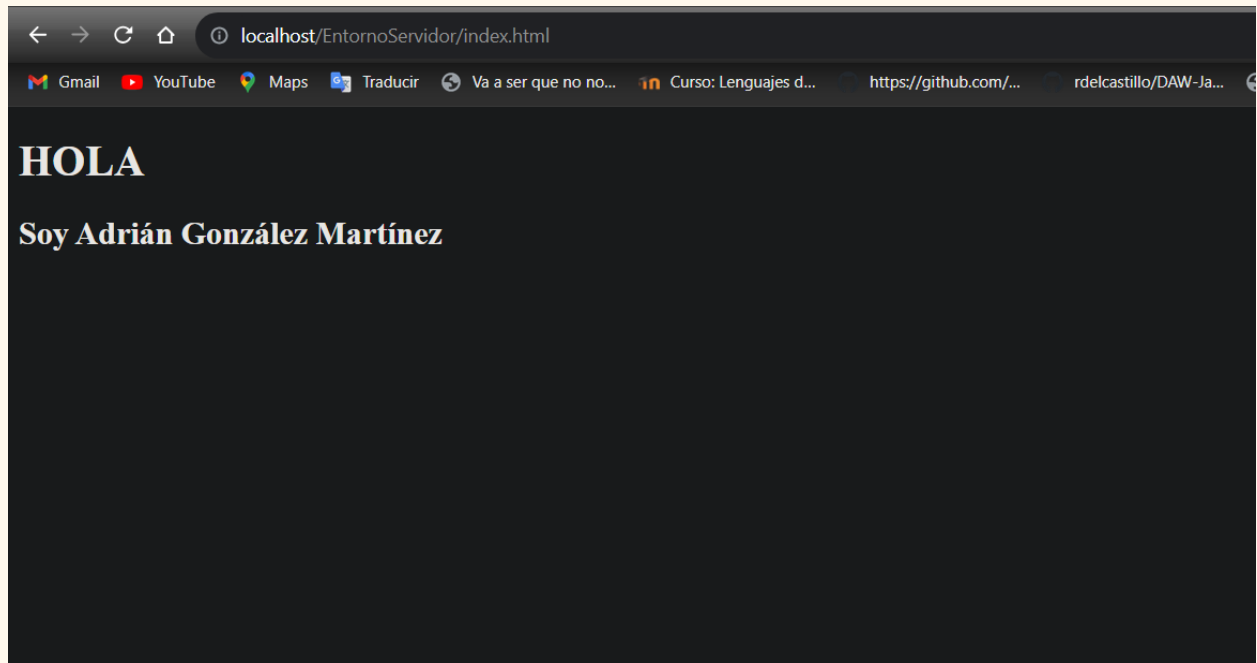
Adrián González Martínez

Entorno Servidor

RA 1 Actividad 1

Actividad 1:

Ya con todo instalado, se puede observar en la imagen el portfolio personal que he creado para probar que toda la configuración pertinente se ha hecho correctamente



Actividad 2:

Aquí se puede observar, con la máquina virtual ya creada, como se instalan las diferentes herramientas necesarias para realizar la configuración el servidor

```
adriangonzalez@adriangonzalez:~$ sudo apt install apache2_
```

```
No user sessions are running outdated binaries.
```

```
No VM guests are running outdated hypervisor (qemu) binaries on this host.  
adriangonzalez@adriangonzalez:~$ sudo apt install php_
```

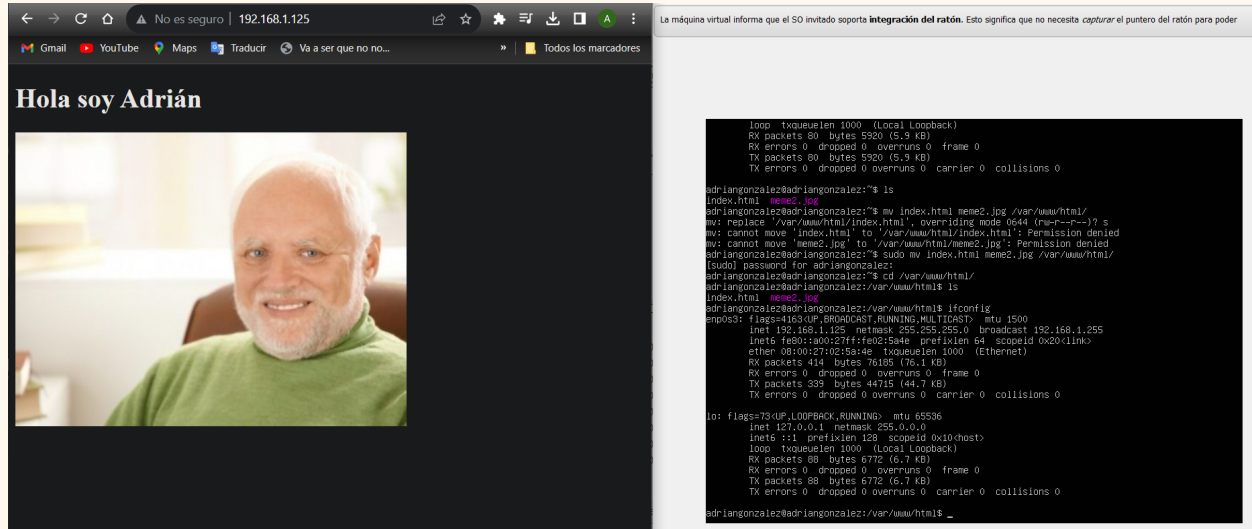
```
No VM guests are running outdated hypervisor (qemu) binaries on this host.  
adriangonzalez@adriangonzalez:~$ sudo apt install mariadb-server
```

```
Procesando disparadores para php8.1-cli (8.1.2-1ubuntu2.14) ...  
Procesando disparadores para libapache2-mod-php8.1 (8.1.2-1ubuntu2.14) ...  
adriangonzalez@adriangonzalez:~$ sudo apt install phpmyadmin _
```

Después se utilizará, en este caso, la herramienta de Filezilla para transmitir archivos desde mi máquina local al servidor que previamente se ha configurado.

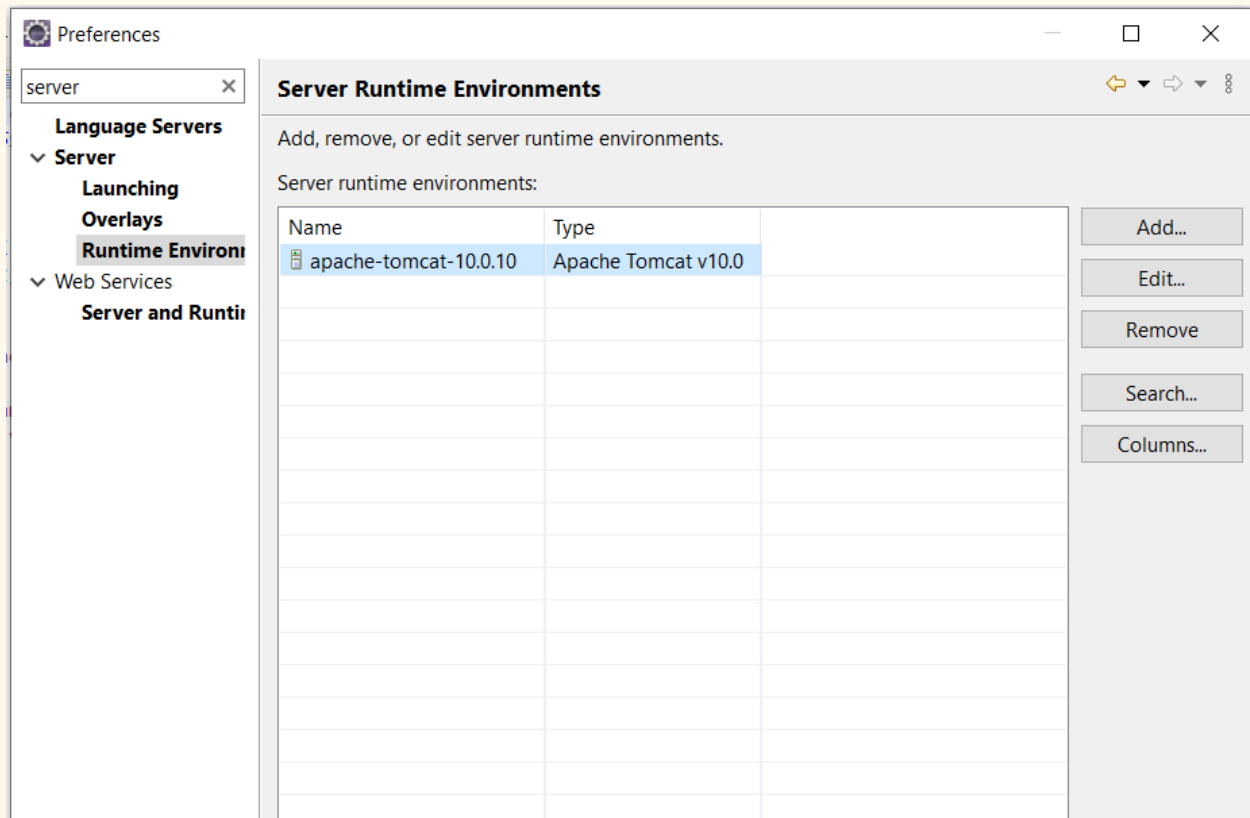
En la siguiente imagen se puede observar como introduciendo la ip del servidor previamente mencionado en el navegador web en nuestra máquina local aparecerá el archivo que hemos

transferido mediante Filezilla

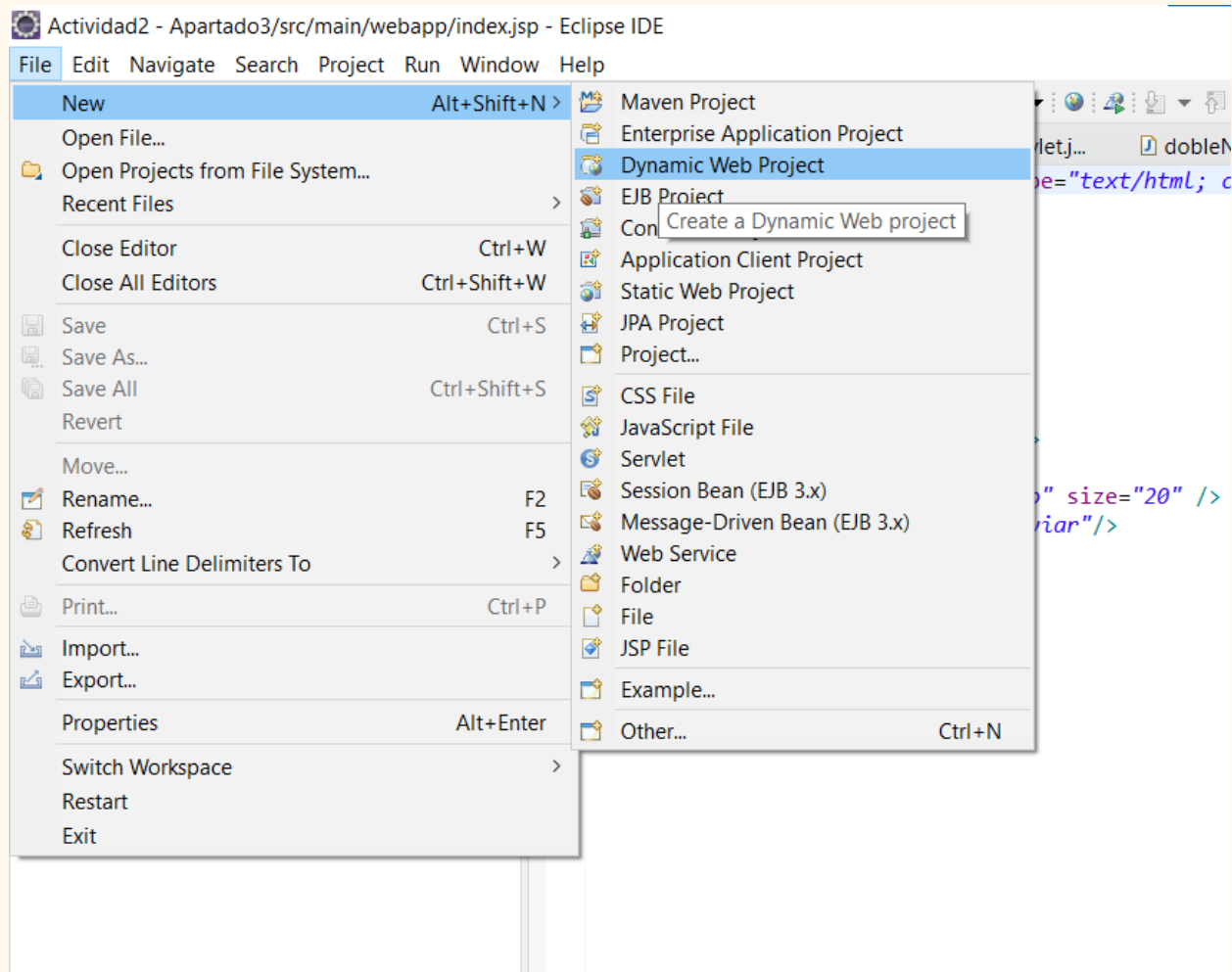


Actividad 3:

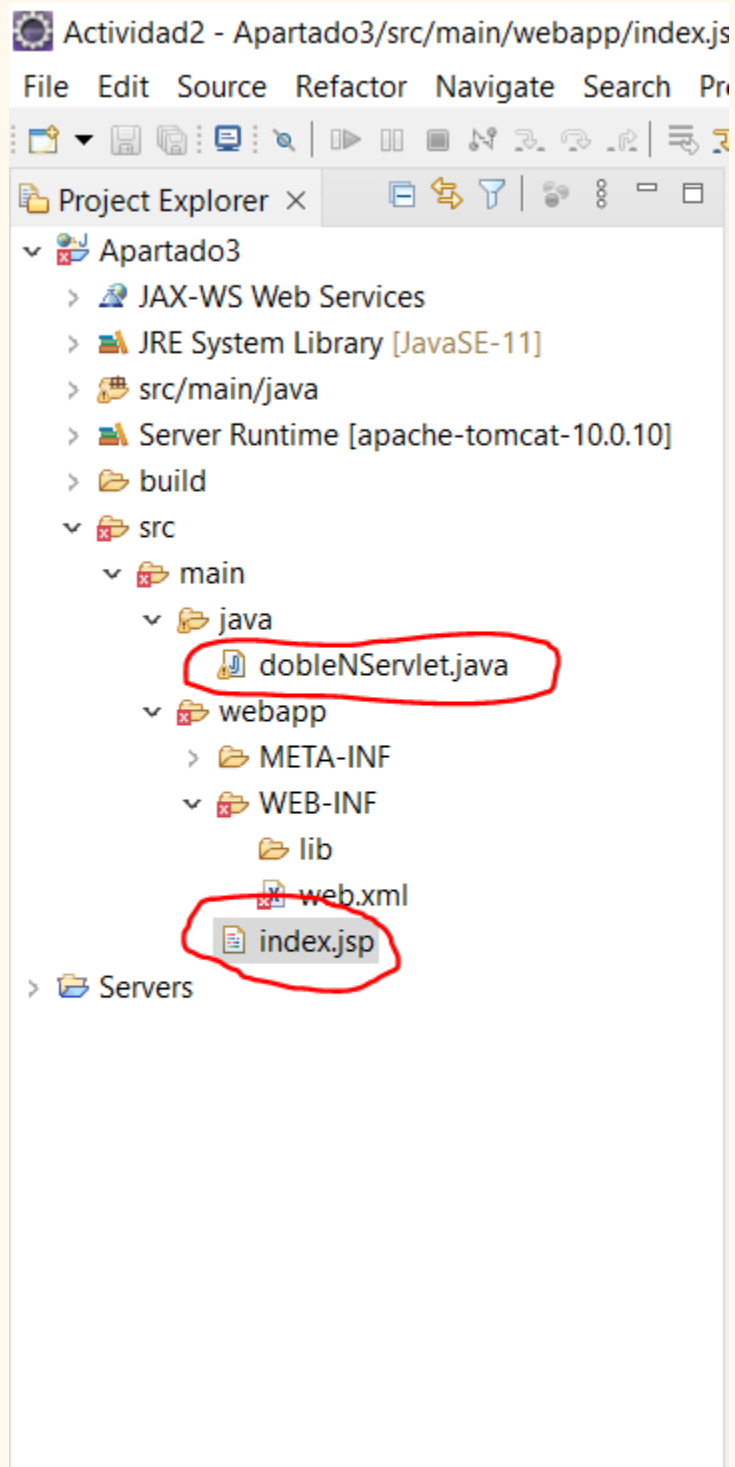
Para configurar el entorno de trabajo, en este caso Eclipse, se debe primero instalar el plugin de apache-tomcat desde el propio IDE



Ya con el plugin instalado, se debe crear un nuevo proyecto(Project Web Dinamic)



Ya con el proyecto creado, en webapp/WEB-INF se creará un index.jsp que contendrá código HTML, ese código deberá contener la etiqueta form para acceder al archivo .java que se habrá creado previamente para calcular el doble número



Actividad2 - Apartado3/src/main/webapp/index.jsp - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help



Project Explorer

- ▼ Apartado3
 - > JAX-WS Web Services
 - > JRE System Library [JavaSE-11]
 - > src/main/java
 - > Server Runtime [apache-tomcat-10.0.10]
 - > build
 - ▼ src
 - ▼ main
 - ▼ java
 - dobleNServlet.java
 - ▼ webapp
 - > META-INF
 - ▼ WEB-INF
 - lib
 - web.xml
 - > Servers

index.jsp

```
1 <%@ page language="java" contentType="text/html; charset=ISO-8859-1"
2   pageEncoding="ISO-8859-1"%>
3 <!DOCTYPE html>
4 <html>
5 <head>
6   <meta charset="ISO-8859-1">
7   <title>Insert title here</title>
8 </head>
9 <body>
10 <form action="dobleNServelet" method="post">
11   Introduce un número:
12   <input type="text" name="numero" size="20" />
13   <input type="submit" value="Enviar"/>
14 </form>
15 </body>
16 </html>
```

Actividad2 - Apartado3/src/main/java/dobleNServlet.java - Eclipse IDE

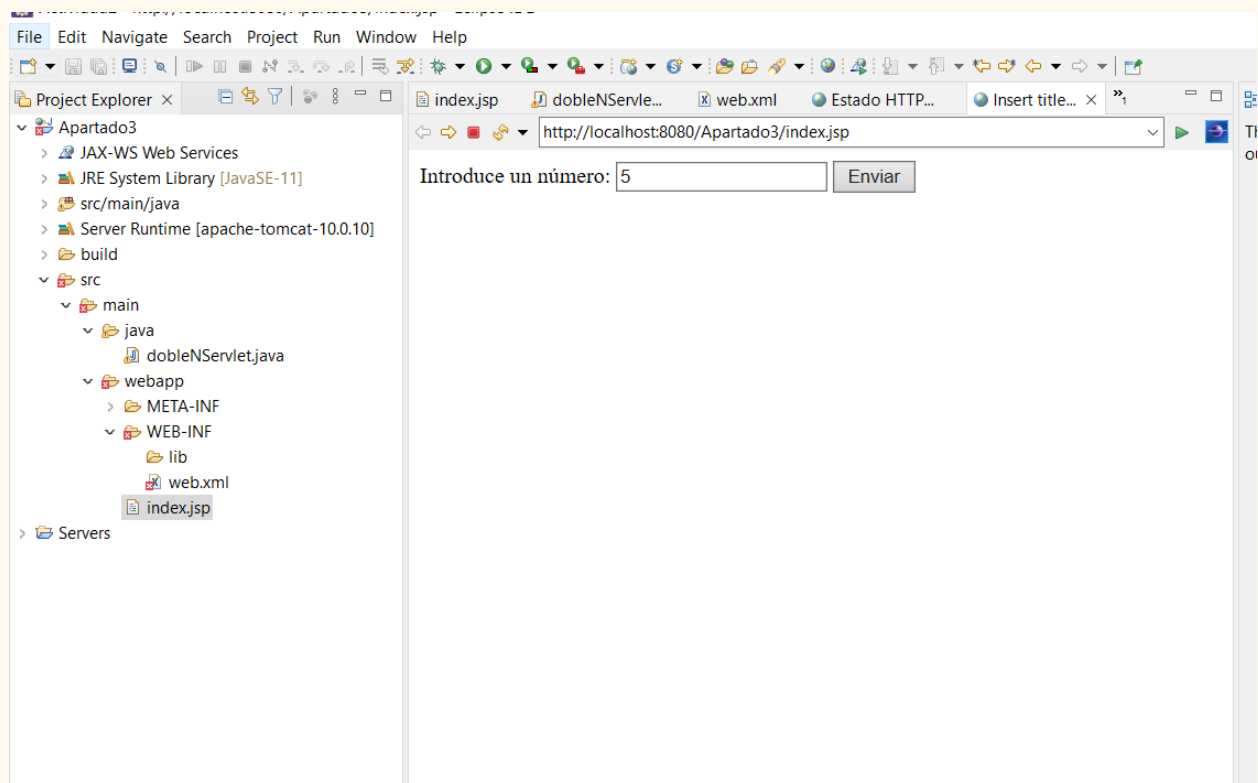
File Edit Source Refactor Navigate Search Project Run Window Help

Project Explorer

- Apartado3
 - JAX-WS Web Services
 - JRE System Library [JavaSE-11]
 - src/main/java
 - Server Runtime [apache-tomcat-10.0.10]
 - build
 - src
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 - web.xml
 - index.jsp
- Servers

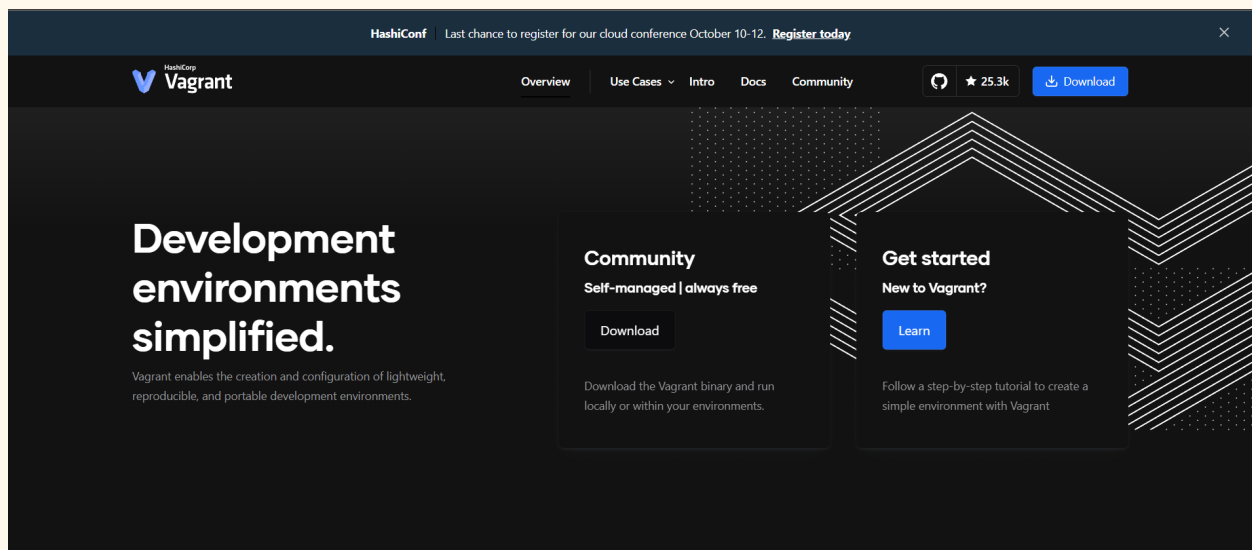
```
18 public class dobleNServlet extends HttpServlet {
19     super();
20     // TODO Auto-generated constructor stub
21 }
22
23 /**
24  * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
25  */
26 protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
27     // TODO Auto-generated method stub
28     response.getWriter().append("Served at: ").append(request.getContextPath() + "/index.jsp");
29 }
30
31 /**
32  * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
33  */
34 protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
35     // TODO Auto-generated method stub
36     String strNumero = request.getParameter("numero");
37     int numero;
38     int doble;
39     numero = Integer.parseInt(strNumero);
40     doble = numero*2;
41     PrintWriter writer = response.getWriter();
42     writer.println("<h1>DOBLE: " + doble + "</h1>");
43     writer.close();
44 }
45
46 }
47
```

Markers Properties Servers Data Source Explorer Snippets Console



Actividad 4:

1. Descargar e instalar Vagrant.



2. Comprobar que la instalación se realizó correctamente lanzando el comando que muestra la versión instalada.

```
(a-gonzalez-m)-30/09/2023 8:58:39,34-C:\Users\Adrian> vagrant --version  
Vagrant 2.3.7
```

3. Añadir el proyecto Laravel Homestead seleccionando VirtualBox:

```
(a-gonzalez-m)-30/09/2023 9:21:11,76-C:\Users\Adrian\Desktop\Vagrant>
vagrant box add laravel/homestead
==> box: Loading metadata for box 'laravel/homestead'
      box: URL: https://vagrantcloud.com/laravel/homestead
This box can work with multiple providers! The providers that it
can work with are listed below. Please review the list and choose
the provider you will be working with.

1) libvirt
2) parallels
3) virtualbox

Enter your choice:
Invalid choice. Try again: 3
==> box: Adding box 'laravel/homestead' (v13.0.0) for provider: virtualbox
      box: Downloading: https://vagrantcloud.com/laravel/boxes/homestead/versions/13.0.0/providers/virtualbox/amd64/vagrant.box
      box:
      box: Calculating and comparing box checksum...
==> box: Successfully added box 'laravel/homestead' (v13.0.0) for 'virtualbox'!
```

4. Clonar el proyecto de Laravel Homestead en el directorio de trabajo:

```
(a-gonzalez-m)-30/09/2023 10:08:21,59-C:\Users\Adrian\Desktop\Vagrant>
git clone https://github.com/laravel/homestead.git
Cloning into 'homestead'...
remote: Enumerating objects: 6330, done.
remote: Counting objects: 100% (107/107), done.
remote: Compressing objects: 100% (47/47), done.
remote: Total 6330 (delta 68), reused 91 (delta 60), pack-reused 6223
Receiving objects: 100% (6330/6330), 1.55 MiB | 1.67 MiB/s, done.
Resolving deltas: 100% (3987/3987), done.
```

5. . Inicia homestead init.bat

```
(a-gonzalez-m)-30/09/2023 10:11:17, 42-C:\Users\Adrian\Desktop\Vagrant\homestead>
.\init.bat
    1 archivo(s) copiado(s).
    1 archivo(s) copiado(s).
    1 archivo(s) copiado(s).
Homestead initialized!
```

6. Lanza la máquina. vagrant up

```
(a-gonzalez-m)-30/09/2023 10:12:20, 18-C:\Users\Adrian\Desktop\Vagrant\homestead>
vagrant up
Bringing machine 'homestead' up with 'virtualbox' provider...
==> homestead: Importing base box 'laravel/homestead'...
==> homestead: Matching MAC address for NAT networking...
==> homestead: Checking if box 'laravel/homestead' version '13.0.0' is up to date...
==> homestead: Setting the name of the VM: homestead
Vagrant is currently configured to create VirtualBox synced folders with
the 'SharedFoldersEnableSymlinksCreate' option enabled. If the Vagrant
guest is not trusted, you may want to disable this option. For more
information on this option, please refer to the VirtualBox manual:

    https://www.virtualbox.org/manual/ch04.html#sharedfolders

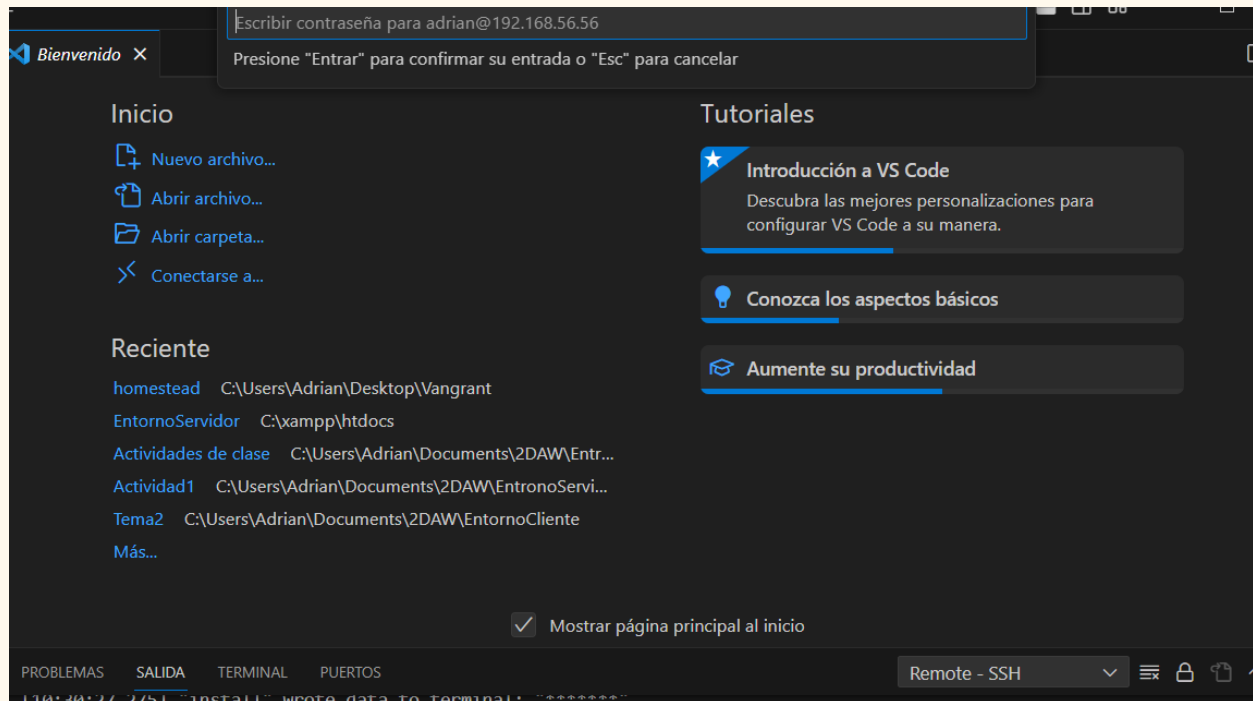
This option can be disabled globally with an environment variable:

    VAGRANT_DISABLE_VBOXSYMLINKCREATE=1

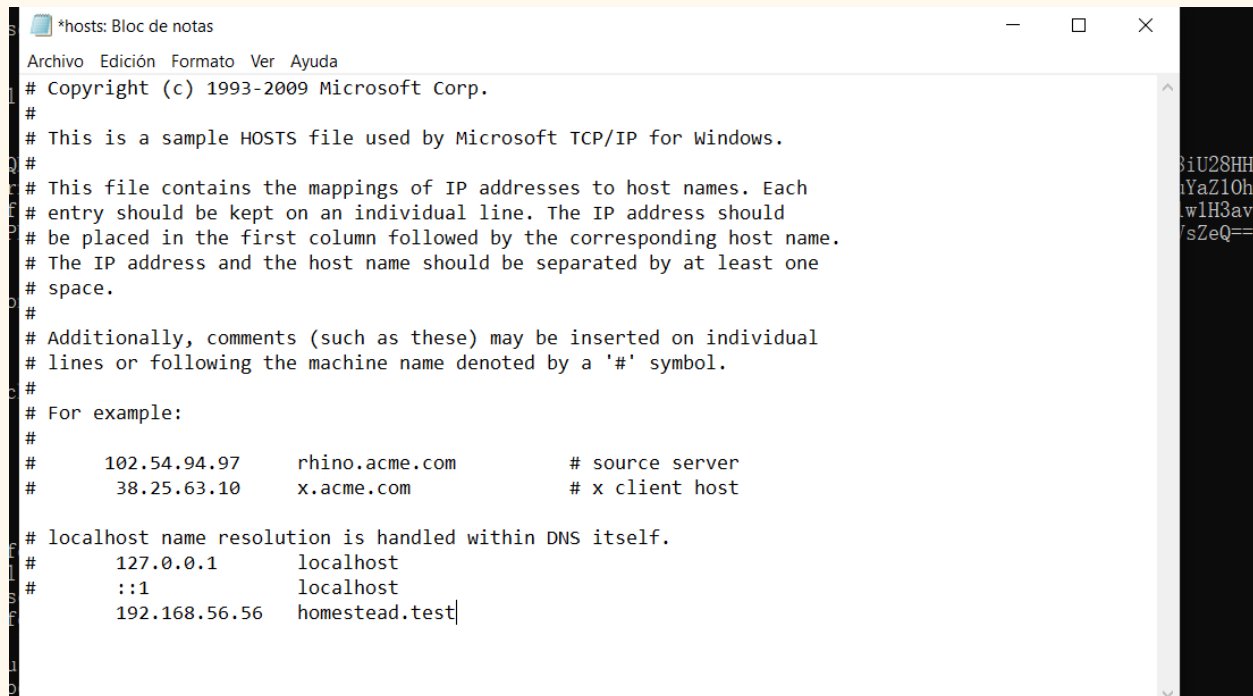
or on a per folder basis within the Vagrantfile:

    config.vm.synced_folder '/host/path', '/guest/path', SharedFoldersEnableSymlinksCreate: false
==> homestead: Clearing any previously set network interfaces...
==> homestead: Preparing network interfaces based on configuration...
    homestead: Adapter 1: nat
    homestead: Adapter 2: hostonly
==> homestead: Forwarding ports...
    homestead: 80 (guest) => 8000 (host) (adapter 1)
    homestead: 443 (guest) => 44300 (host) (adapter 1)
    homestead: 22 (guest) => 2222 (host) (adapter 1)
```

7. Conectar pod ssh



8. Modifica el fichero de hosts para asignar nombre y dirección ip del archivo de configuración Homestead.yaml.



9. Crea la máquina

