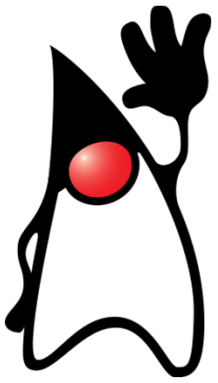
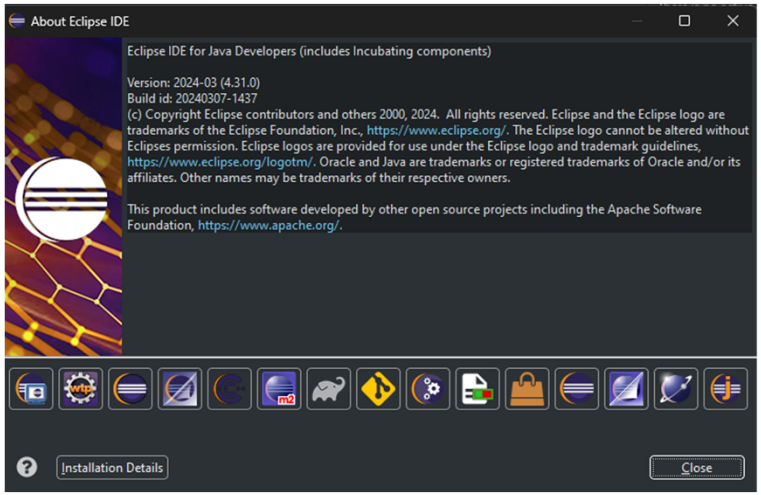


# Java

DESARROLLO DE APLICACIONES WEB

# Eclipse IDE


About Eclipse IDE
Eclipse IDE for Java Developers (includes Incubating components)
Version: 2024-03 (4.31.0)
Build id: 20240307-1437
(c) Copyright Eclipse contributors and others 2000, 2024. All rights reserved. Eclipse and the Eclipse logo are trademarks of the Eclipse Foundation, Inc., https://www.eclipse.org/. The Eclipse logo cannot be altered without Eclipses permission. Eclipse logos are provided for use under the Eclipse logo and trademark guidelines, https://www.eclipse.org/logotm/. Oracle and Java are trademarks or registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.
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Installation Details
Close


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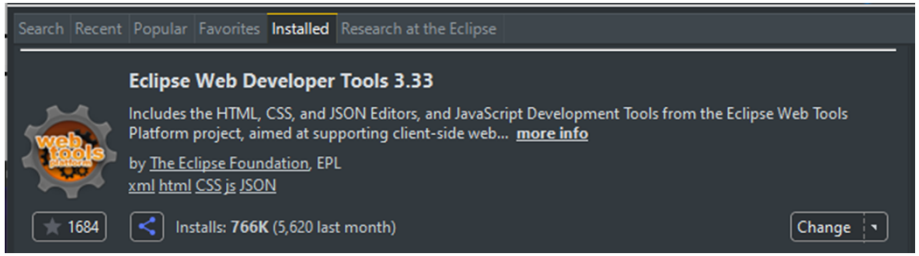
Eclipse Enterprise Java and Web Developer Tools 3.33
Enables Enterprise Java Bean, Java Enterprise Application, Fragments, and Connector, Java Web Application, JavaServer Faces (JSF), Java Server Pages (JSP), Java... more info
by The Eclipse Foundation, EPL
xml html CSS js jsp
1707
Installs: 1.20M (16,449 last month)
Change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Eclipse Web Developer Tools 3.33
Includes the HTML, CSS, and JSON Editors, and JavaScript Development Tools from the Eclipse Web Tools Platform project, aimed at supporting client-side web... more info
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1684
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WindowBuilder is composed of SWT Designer and Swing applications without spending a lot of time writing code
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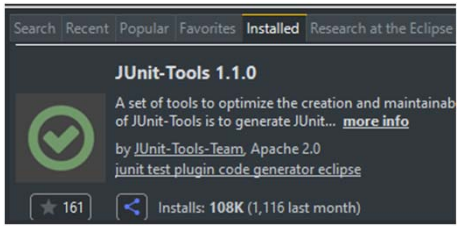
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A set of tools to optimize the creation and maintainab of JUnit-Tools is to generate JUnit... more info
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Installs: 108K (1,116 last month)


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spring Spring IDE Cloud Spring Tool Suite STS
4190
Installs: 2.87M (23,095 last month)
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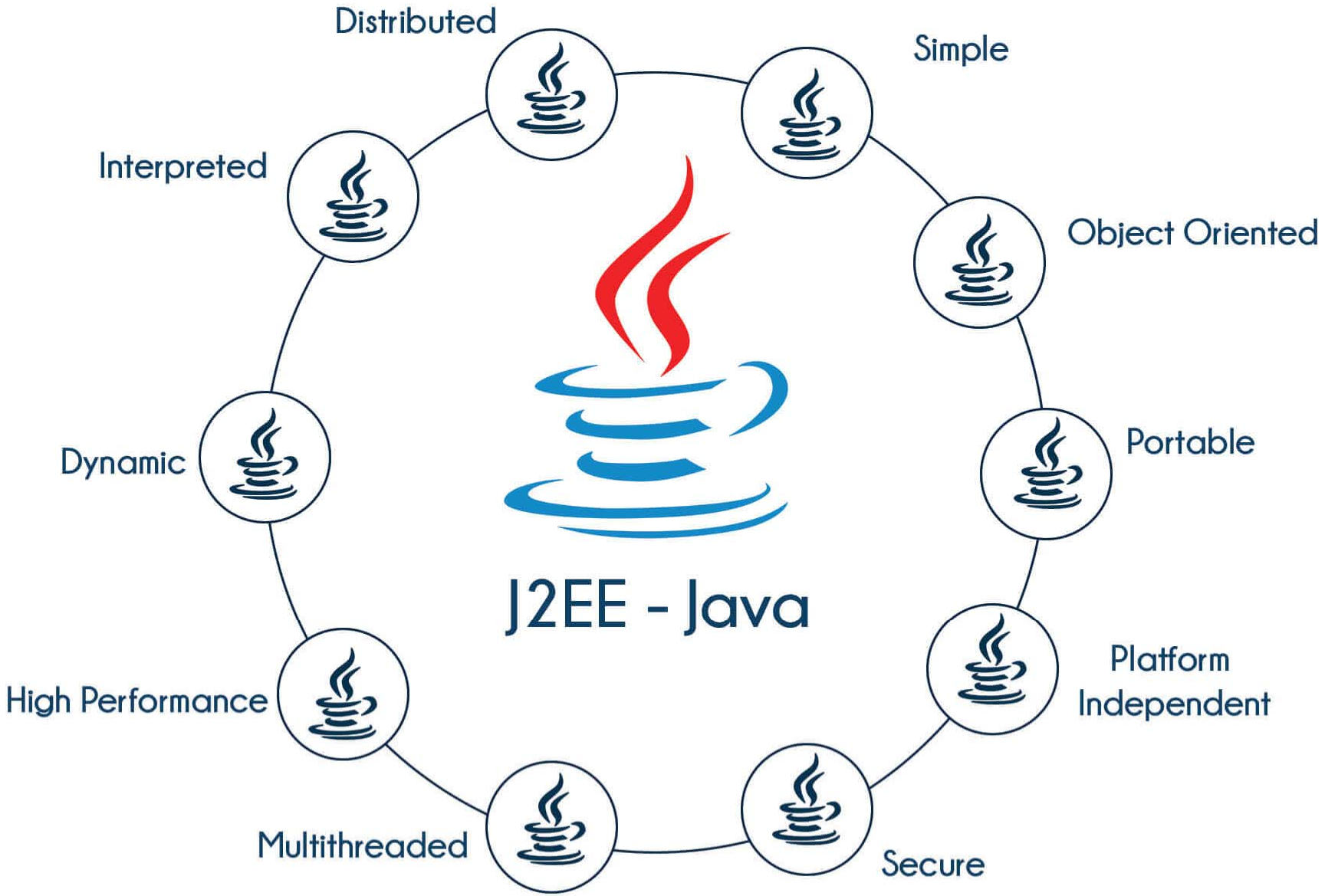

Distributed
Simple
Interpreted
Object Oriented
Dynamic
Portable
J2EE - Java
High Performance
Platform
Independent
Multithreaded
Secure

# ¿Qué es un Servlet?

- Un Servlet es un objeto java que pertenece a una clase que extiende javax.servlet.http.HttpServlet. Existen diferentes tipos de Servlets pero HttpServlet es el más usado.

- Un contenedor de Servlet es un programa capaz de recibir peticiones de páginas web y redireccionar estas peticiones a un objeto Servlet.

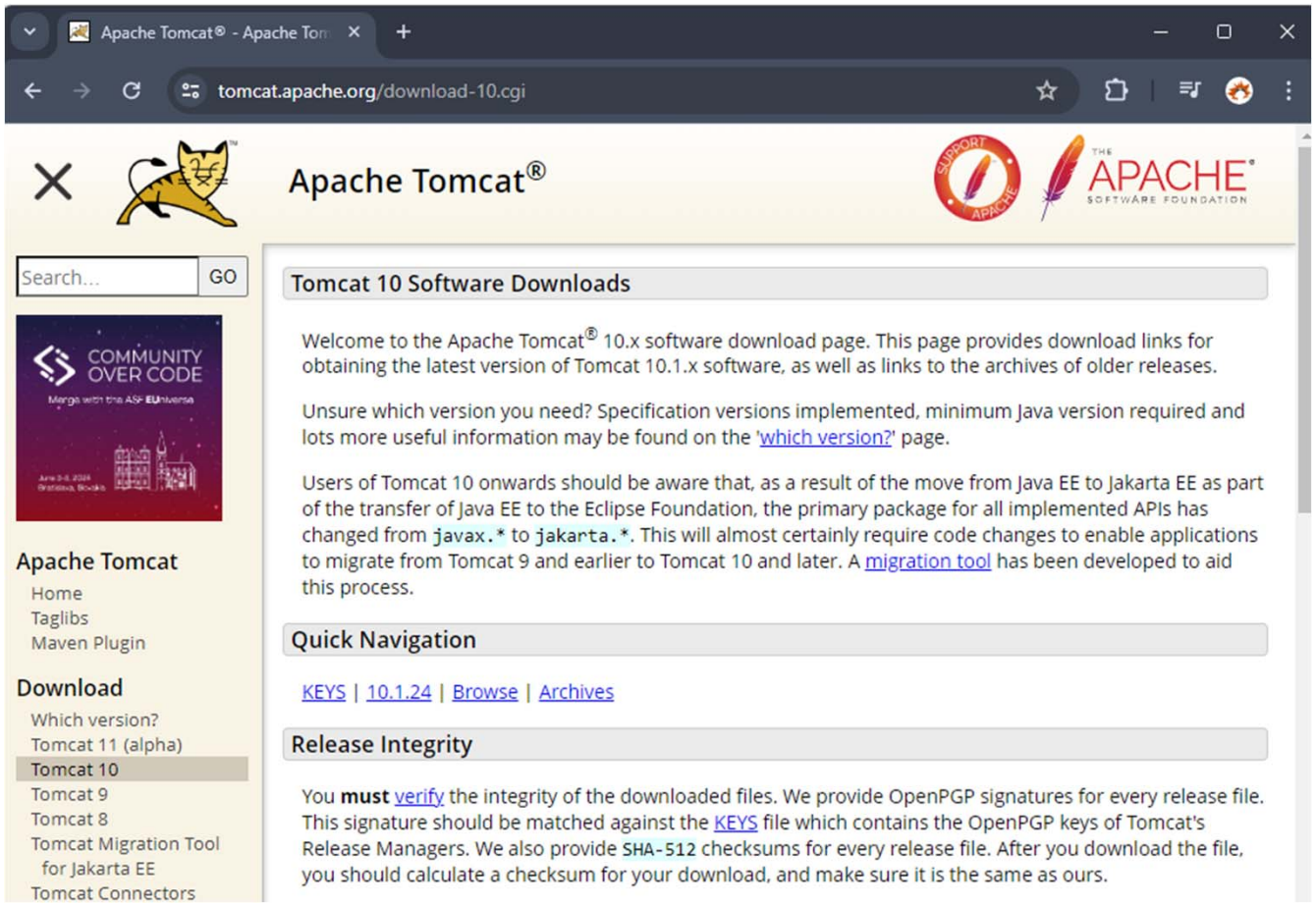
# ¿Qué es un Servlet?

- Funcionamiento de un contenedor de Servlets
  - El Browser pide una página al servidor HTTP que es un contenedor de Servlets
  - El contenedor de Servlets delega la petición a un Servlet en particular elegido de entre los Servlets que contiene.
  - El Servlet, que es una objeto java, se encarga de generar el texto de la página web que se entrega al contenedor.
  - El contenedor devuelve la página web al Browser que la solicitó.

# Apache Tomcat

- Apache Tomcat es un contenedor Java Servlet, o contenedor web, que proporciona la funcionalidad extendida para interactuar con Java Servlets, al tiempo que implementa varias especificaciones técnicas de la plataforma Java: JavaServer Pages (JSP), Java Expression Language (Java EL) y WebSocket..

# Install Apache Tomcat



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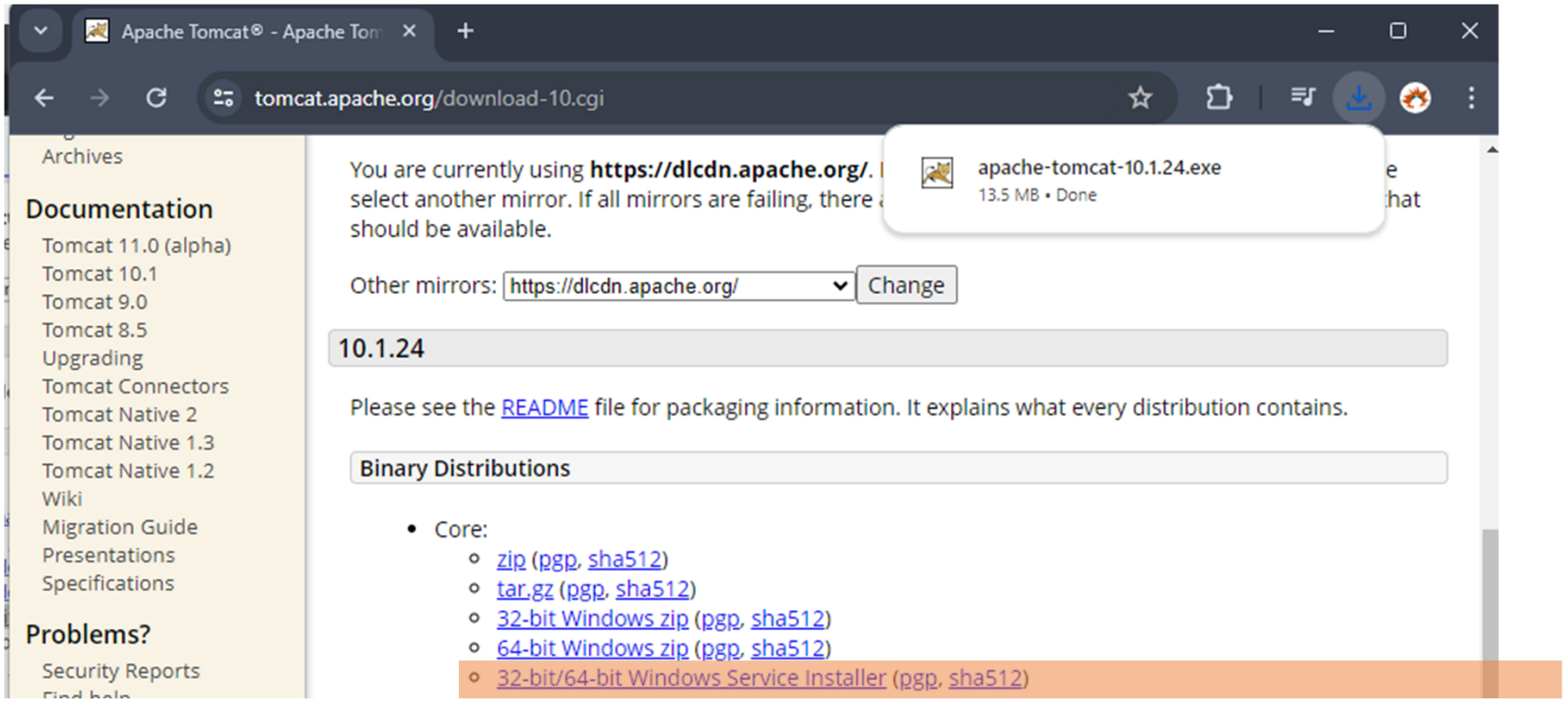

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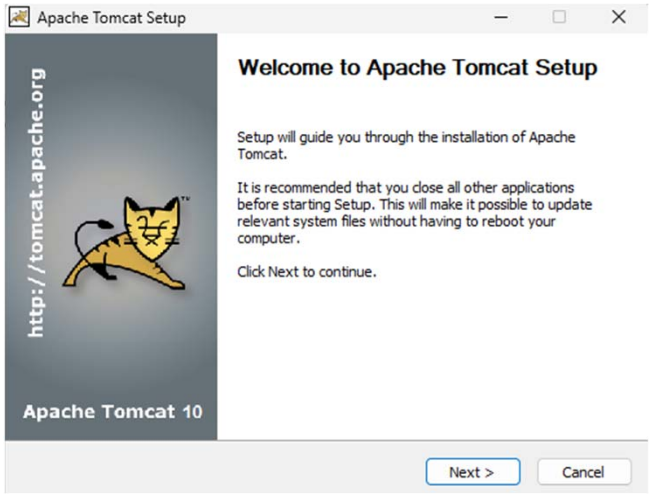
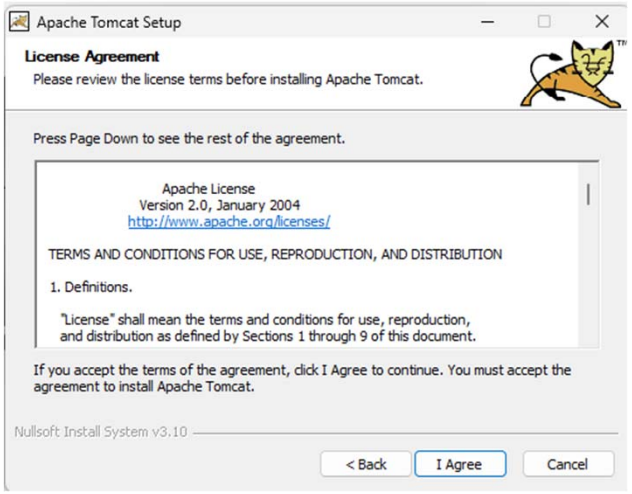
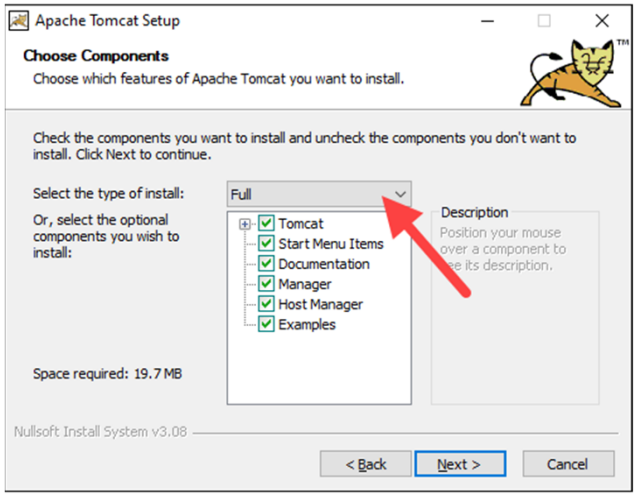
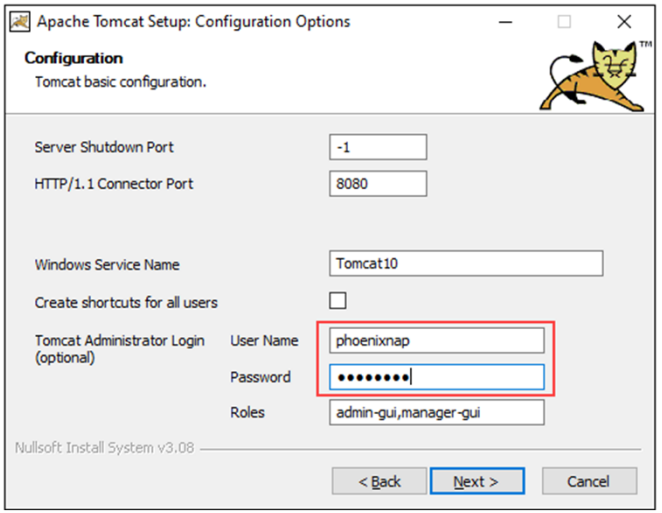
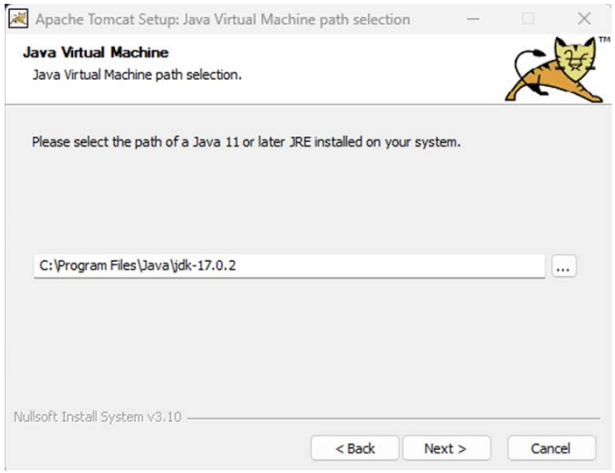


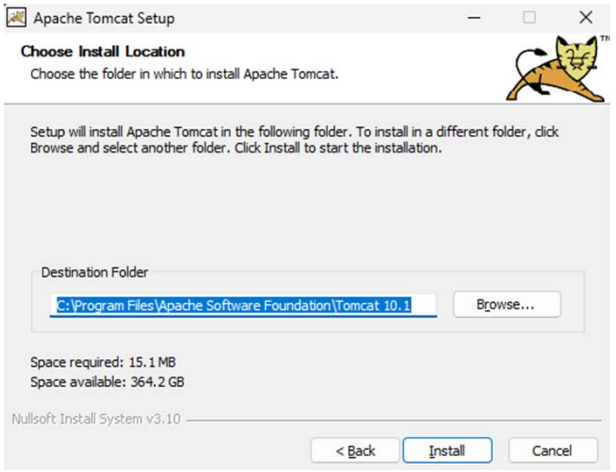



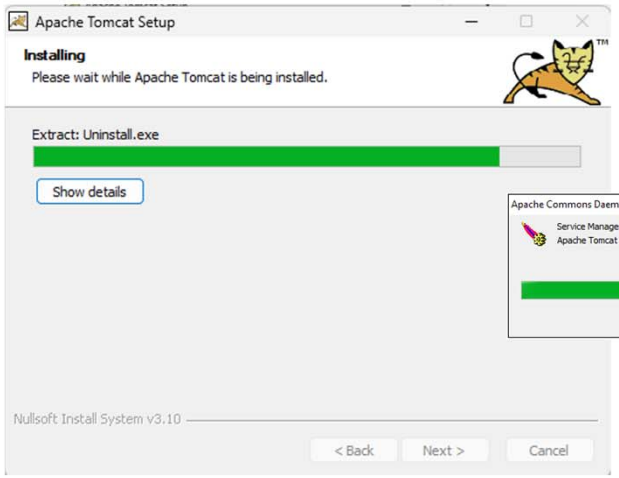



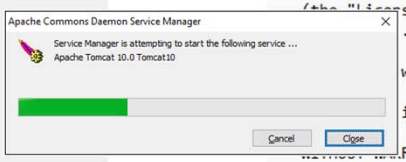



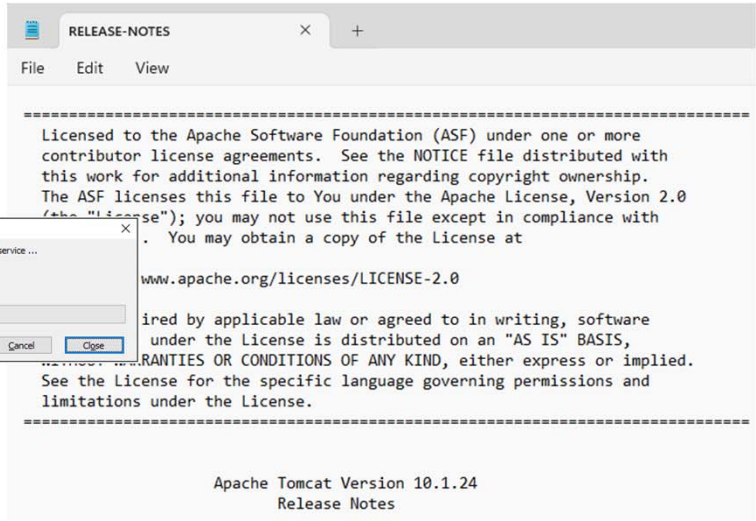
# Install Apache Tomcat



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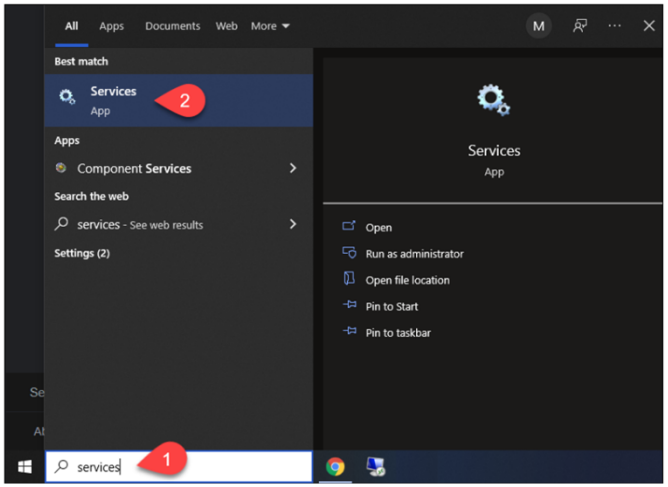
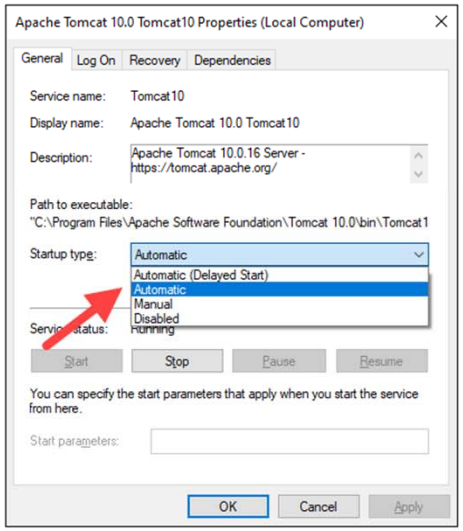
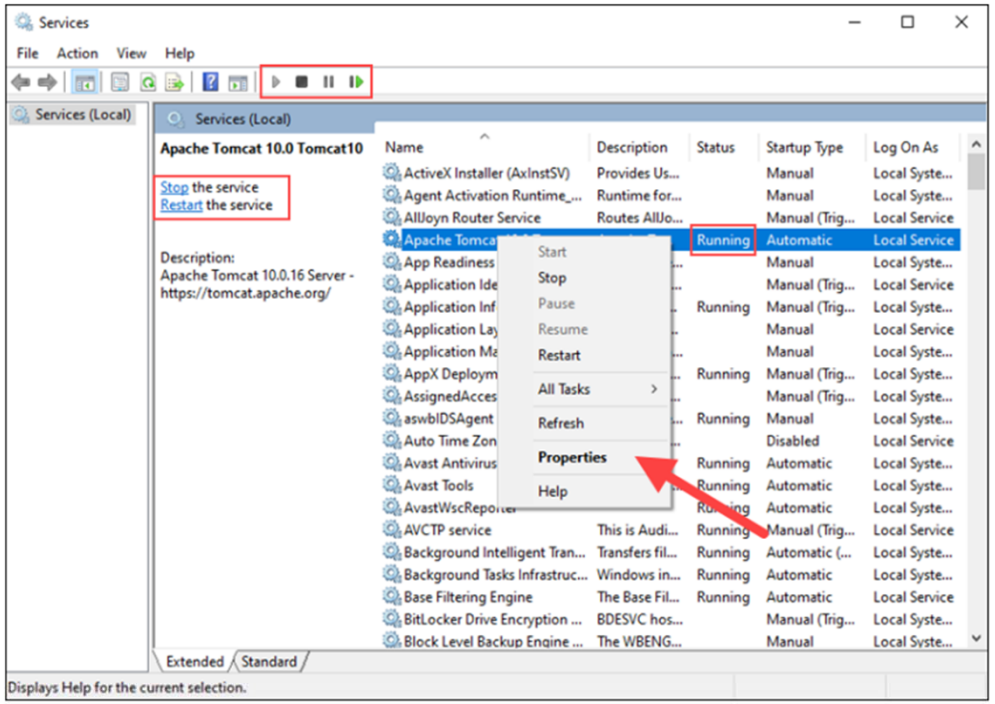
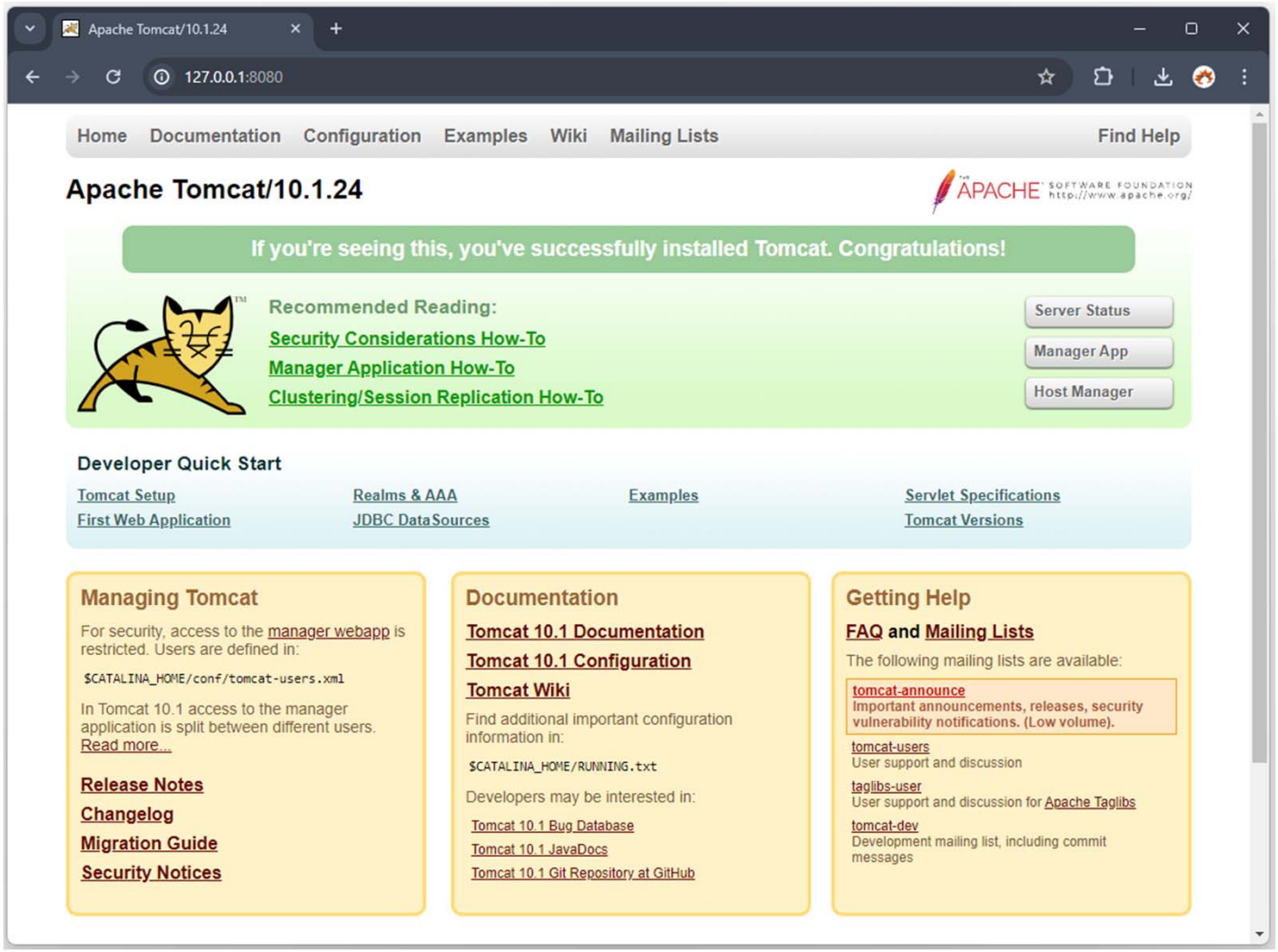


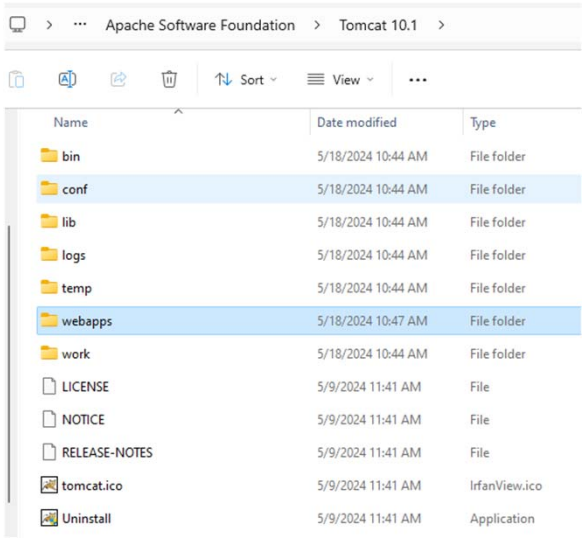



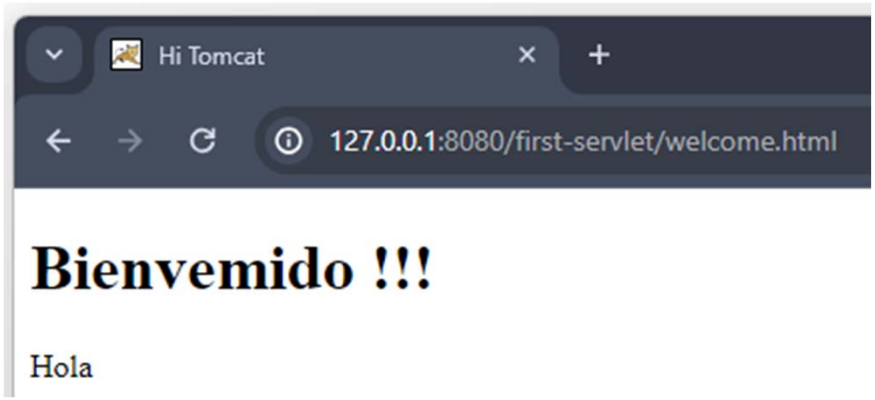



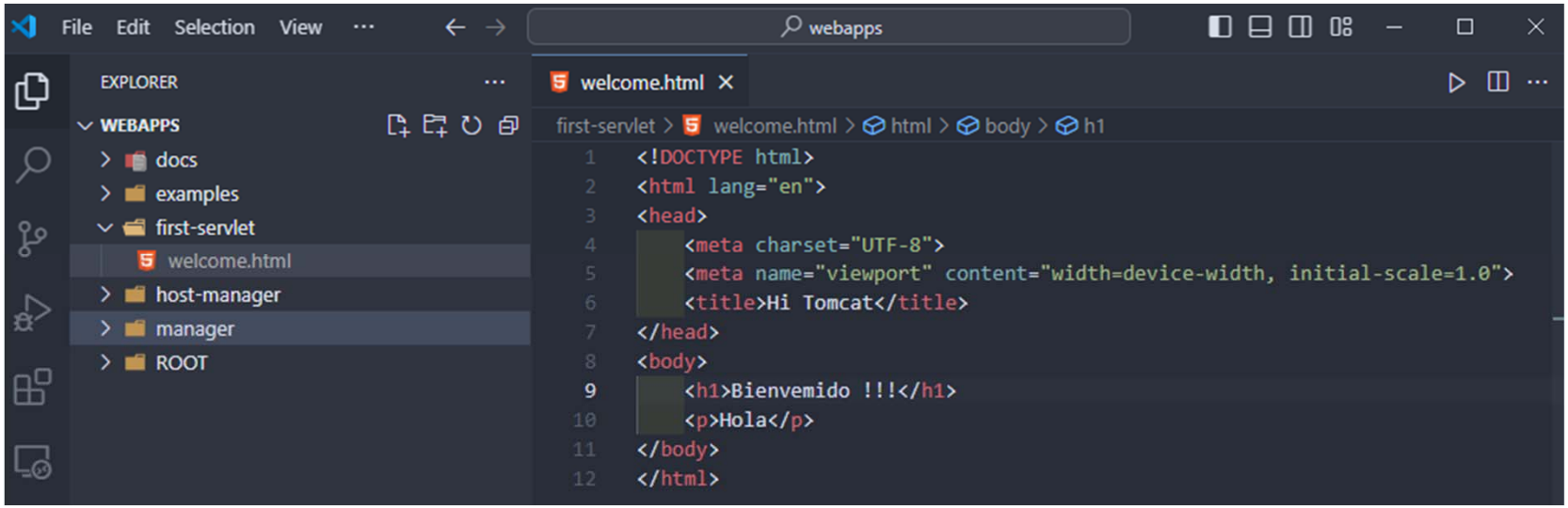
# Install Apache Tomcat



# Apache Tomcat Test



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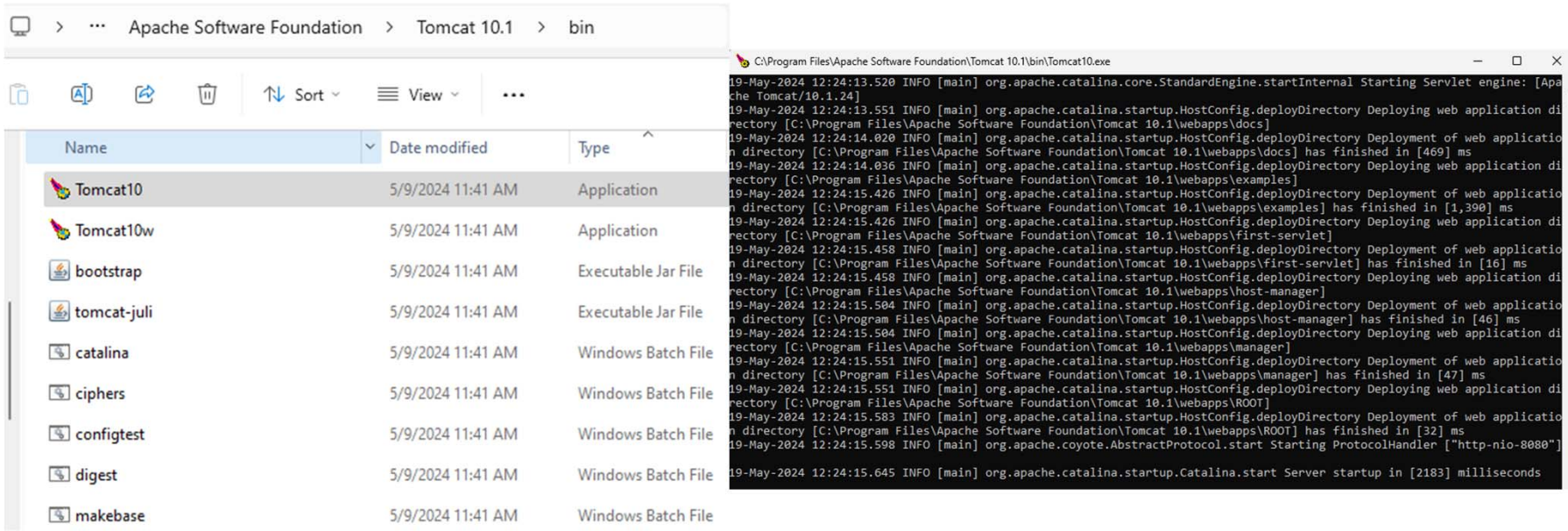
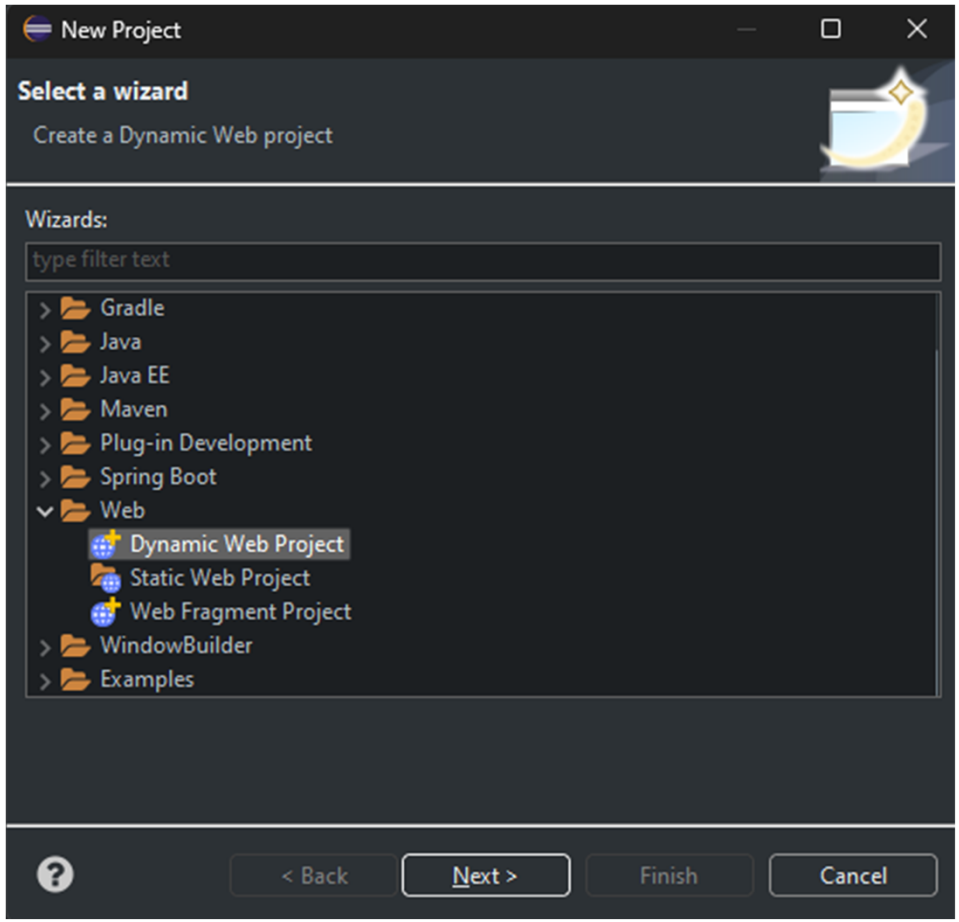


# Tecnología JSP (JavaServer Pages)

- La tecnología JavaServer Pages permite generar contenido Web dinámico como, por ejemplo, archivos HTML, DHTML, XHTML y XML, para incluirlos en una aplicación Web.

- Cuando se despliega un archivo JSP en un contenedor de servlets, este se procesa previamente. Esto contrasta con JavaScript™ en el lado del cliente (dentro de códigos <SCRIPT>), que se ejecuta en un navegador.

# Primer Servlet {IDE Eclipse}



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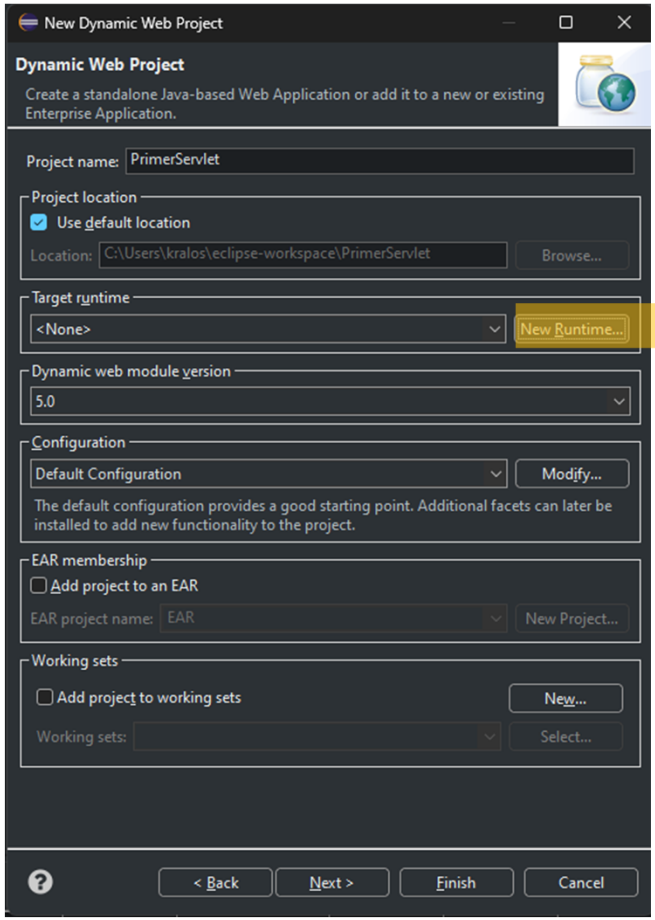

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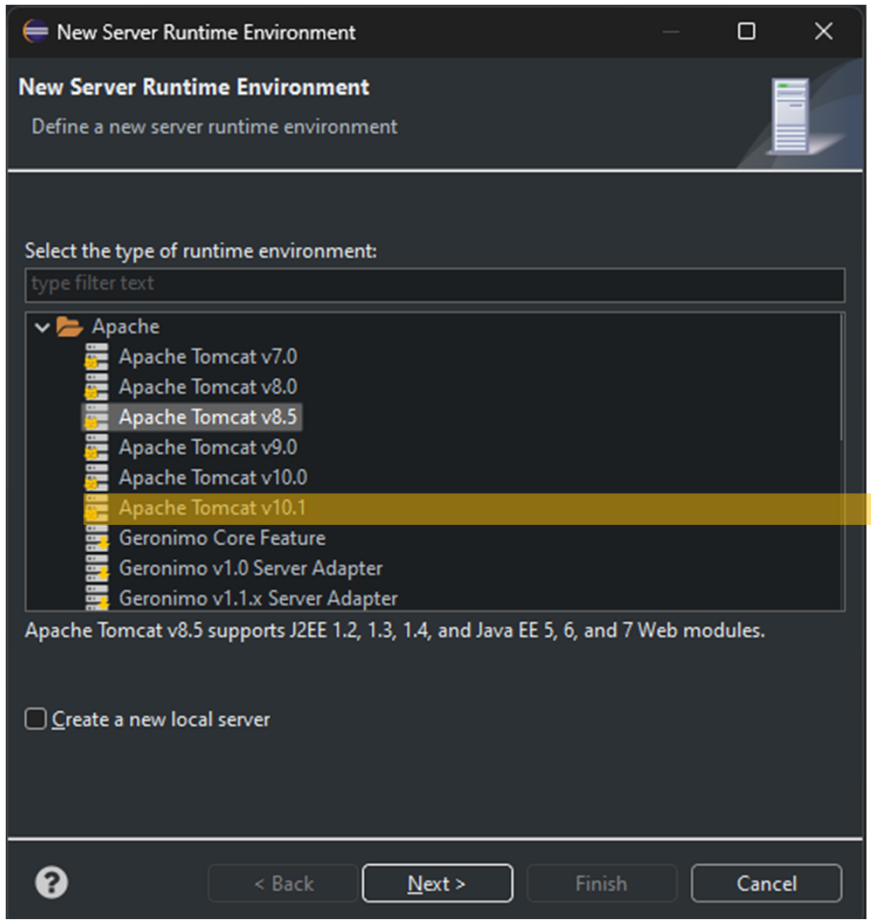

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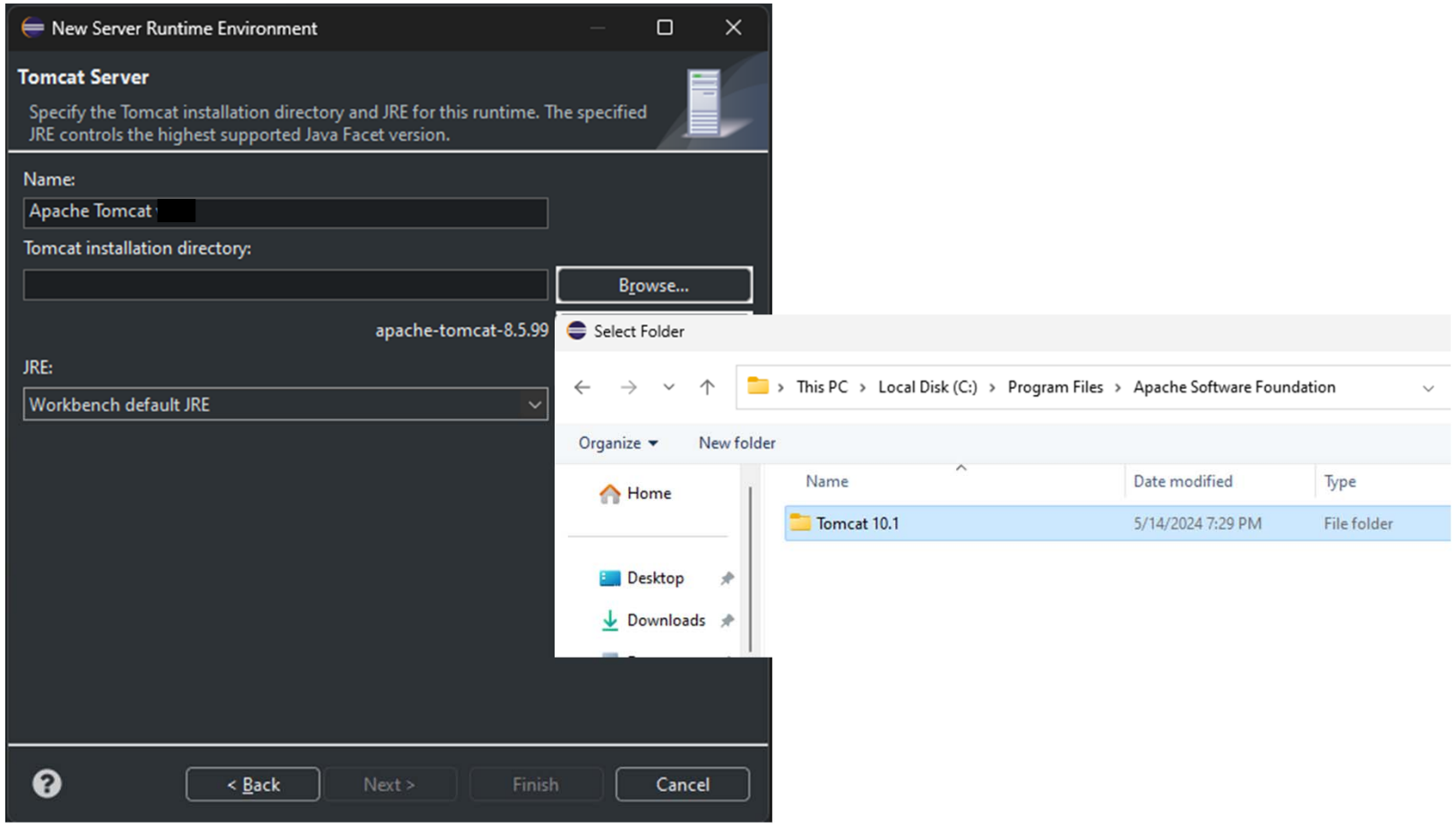
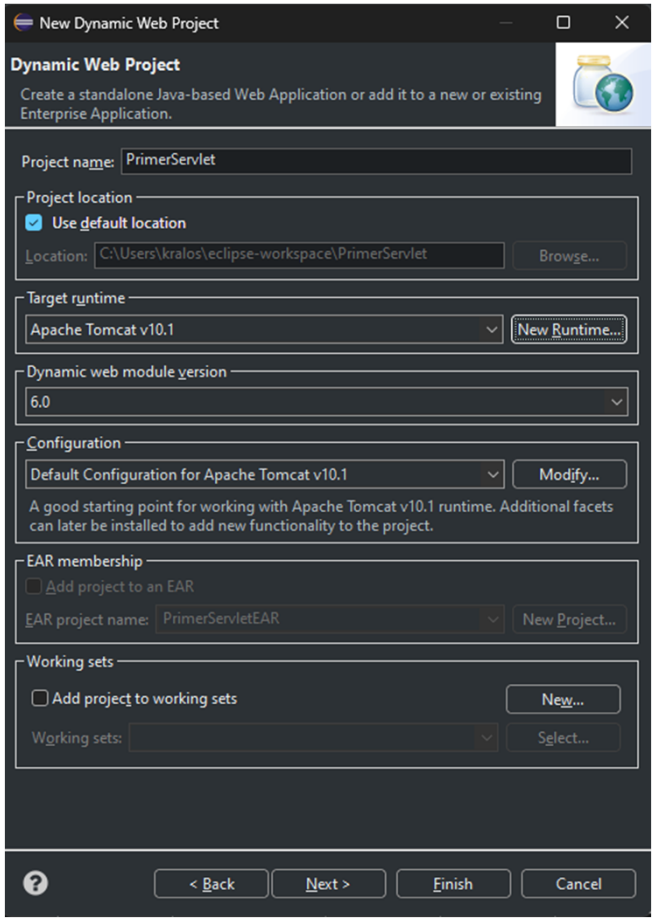
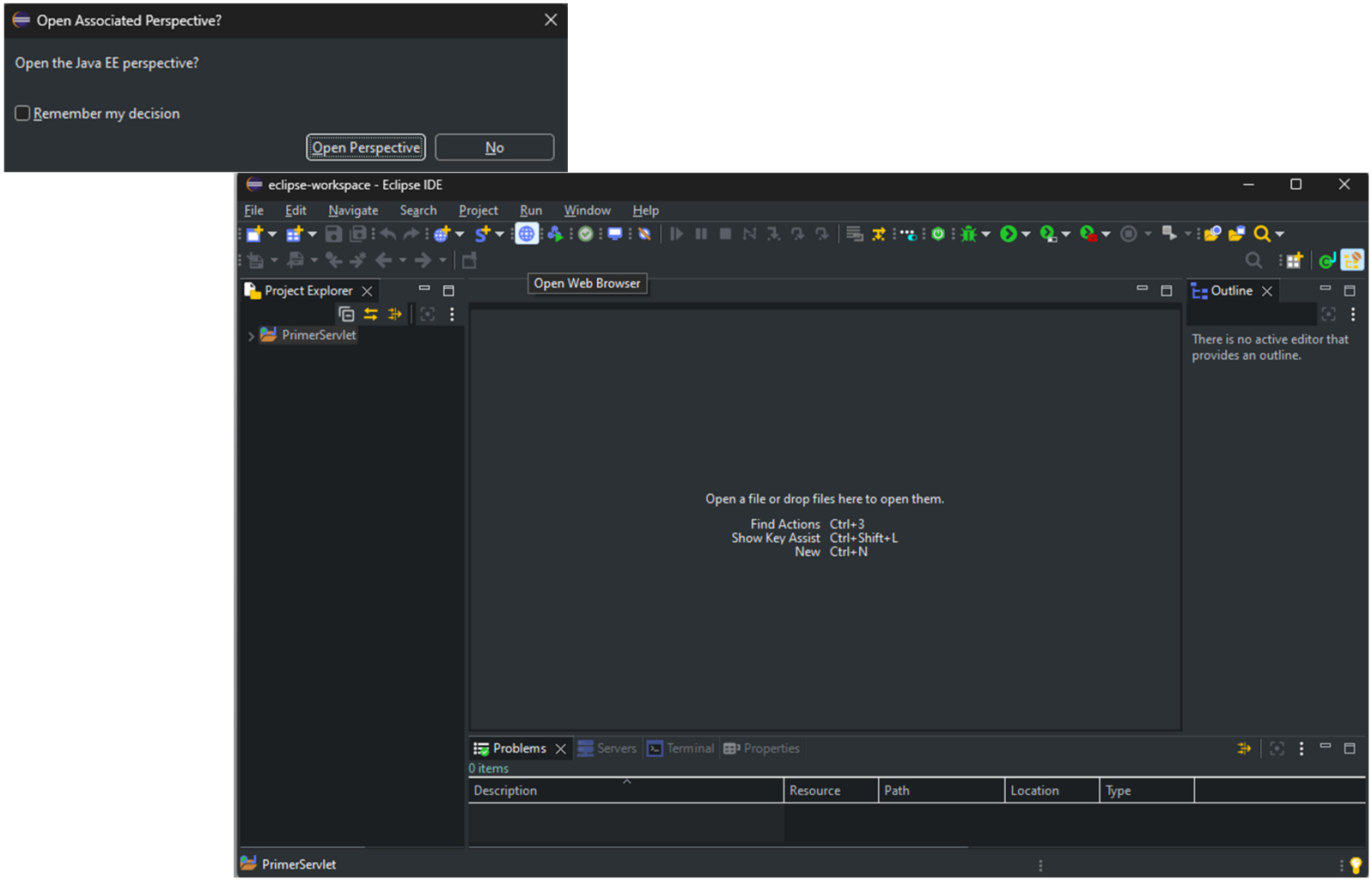


# Primer Servlet {IDE Eclipse}



# Primer Servlet {IDE Eclipse}



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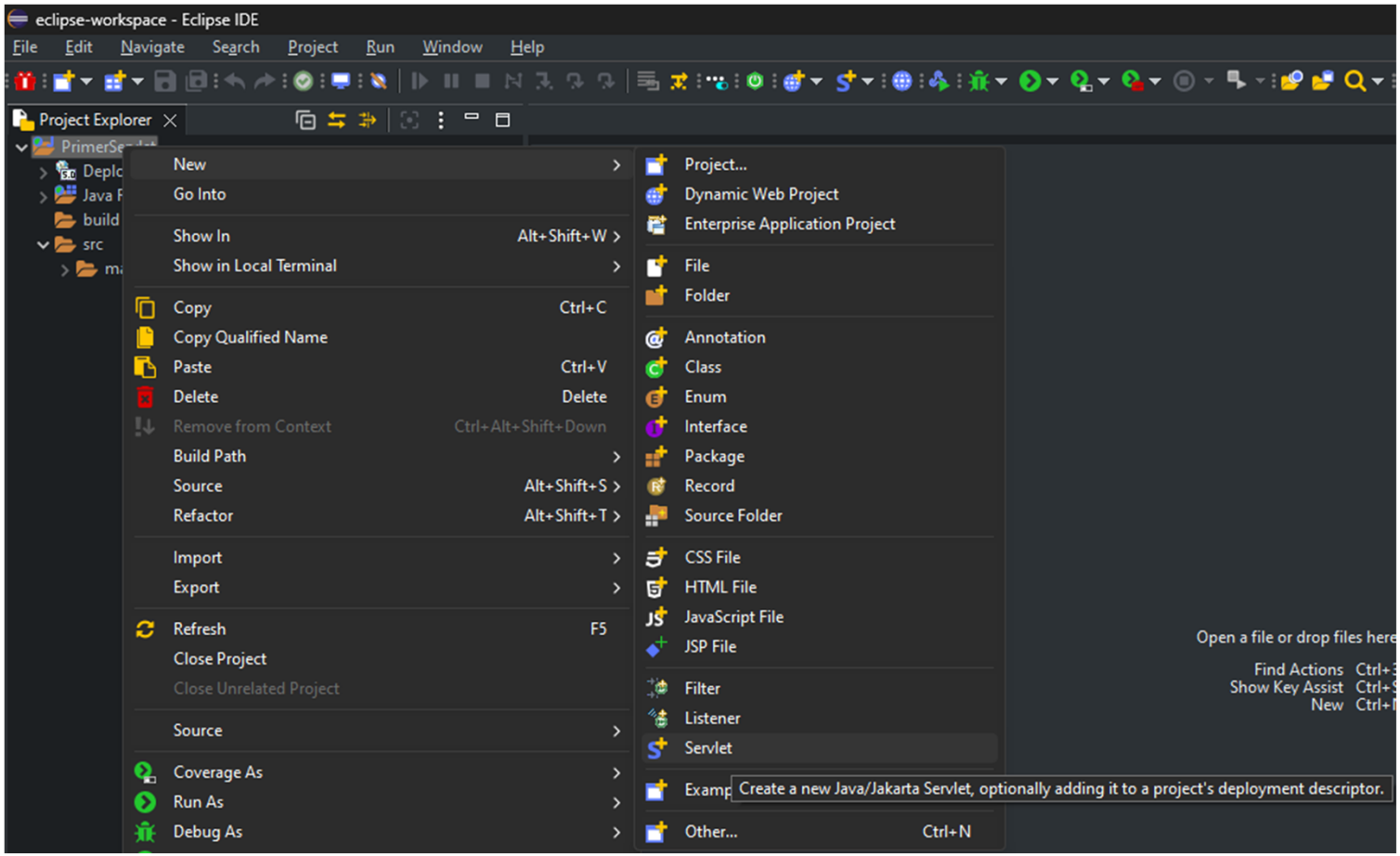

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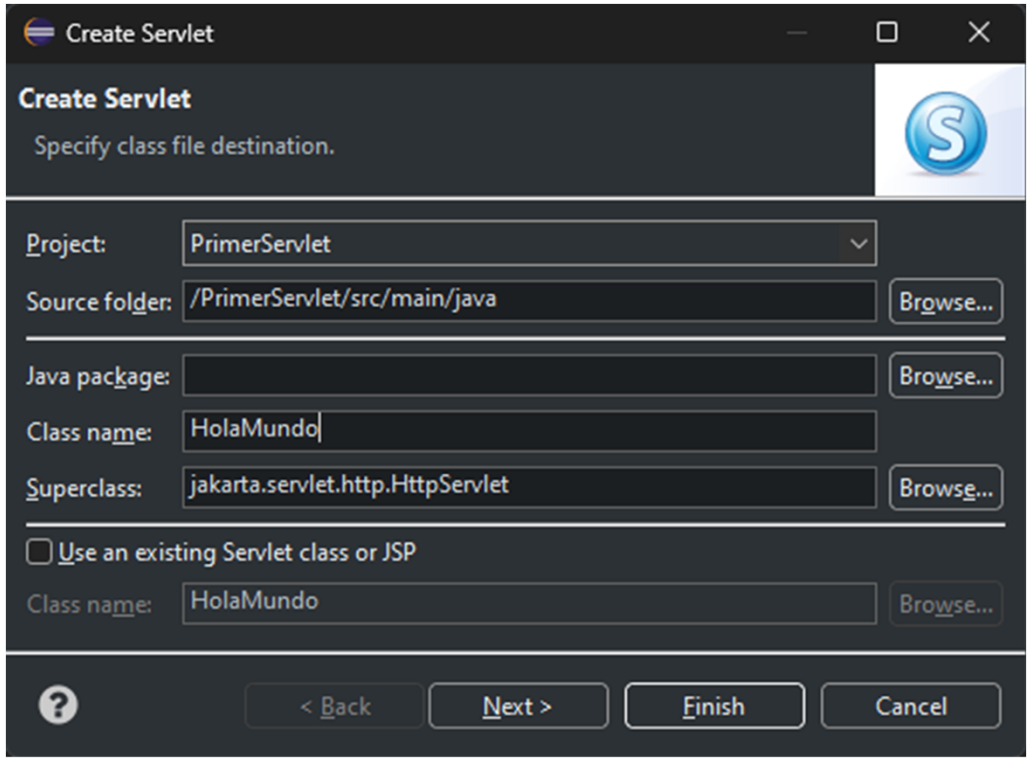
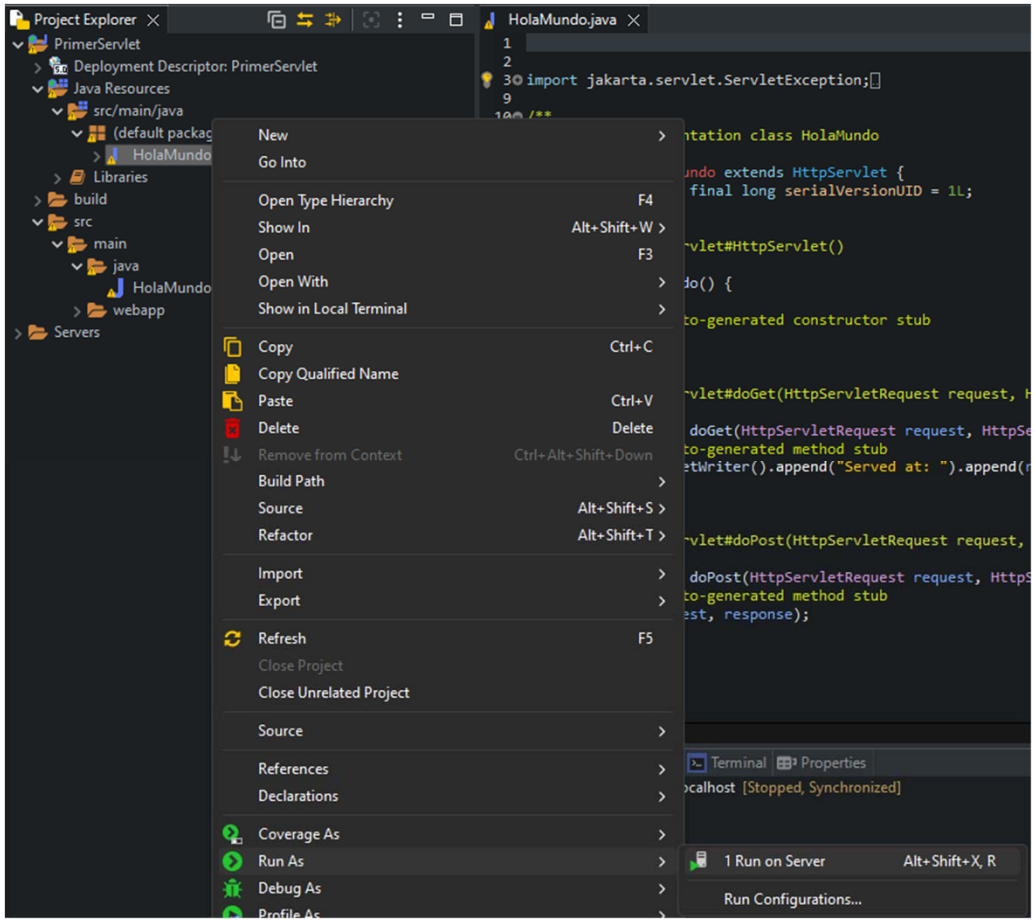


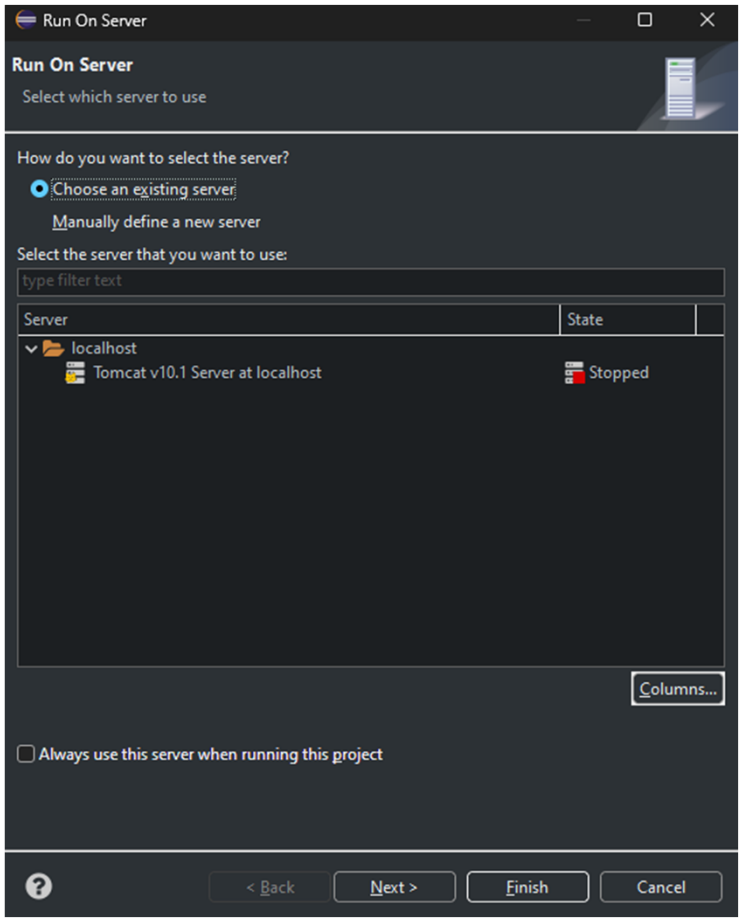
# Primer Servlet {IDE Eclipse}

HolaMundo.java

```java

import jakarta.servlet.ServletException;

/**
 * Servlet implementation class HolaMundo
 */
public class HolaMundo extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public HolaMundo() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
        // TODO Auto-generated method stub
        response.getWriter().append("Served at: ").append(request.getContextPath());
    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {
        // TODO Auto-generated method stub
        doGet(request, response);
    }

}

```

# Primer Servlet {IDE Eclipse}



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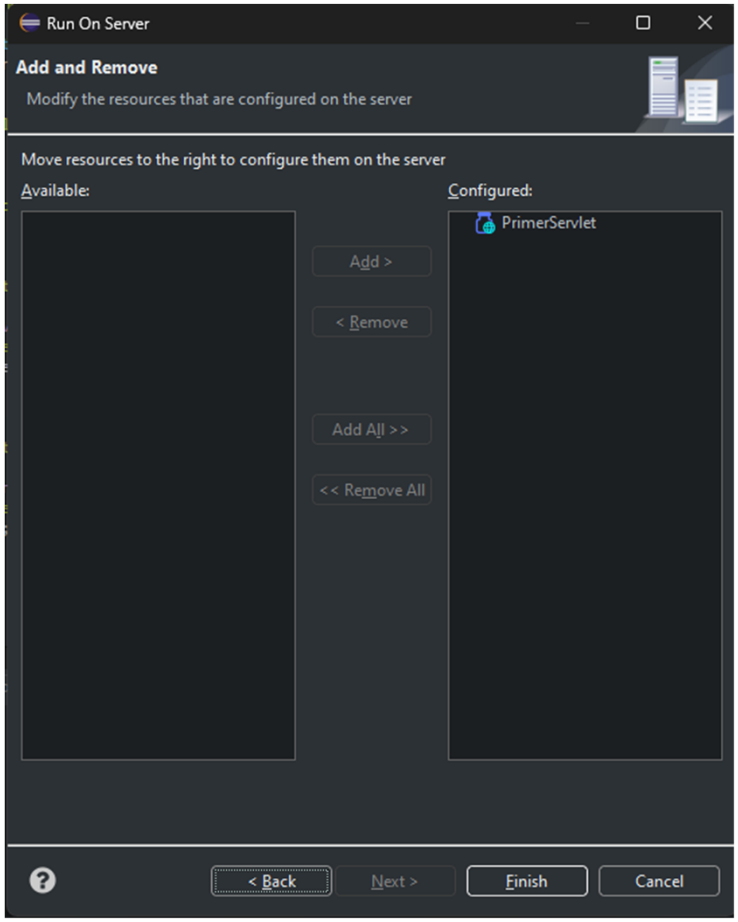


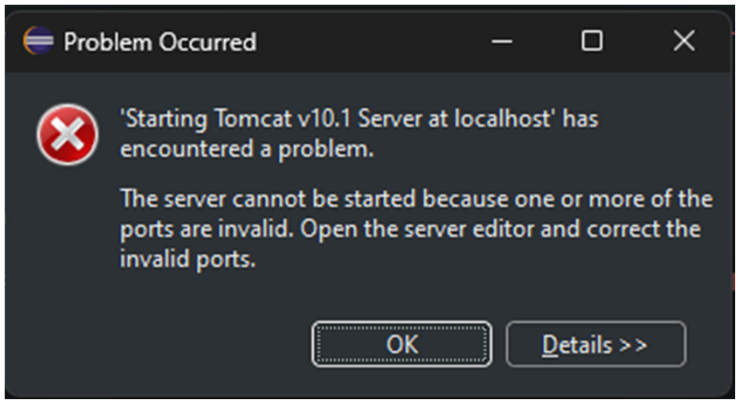

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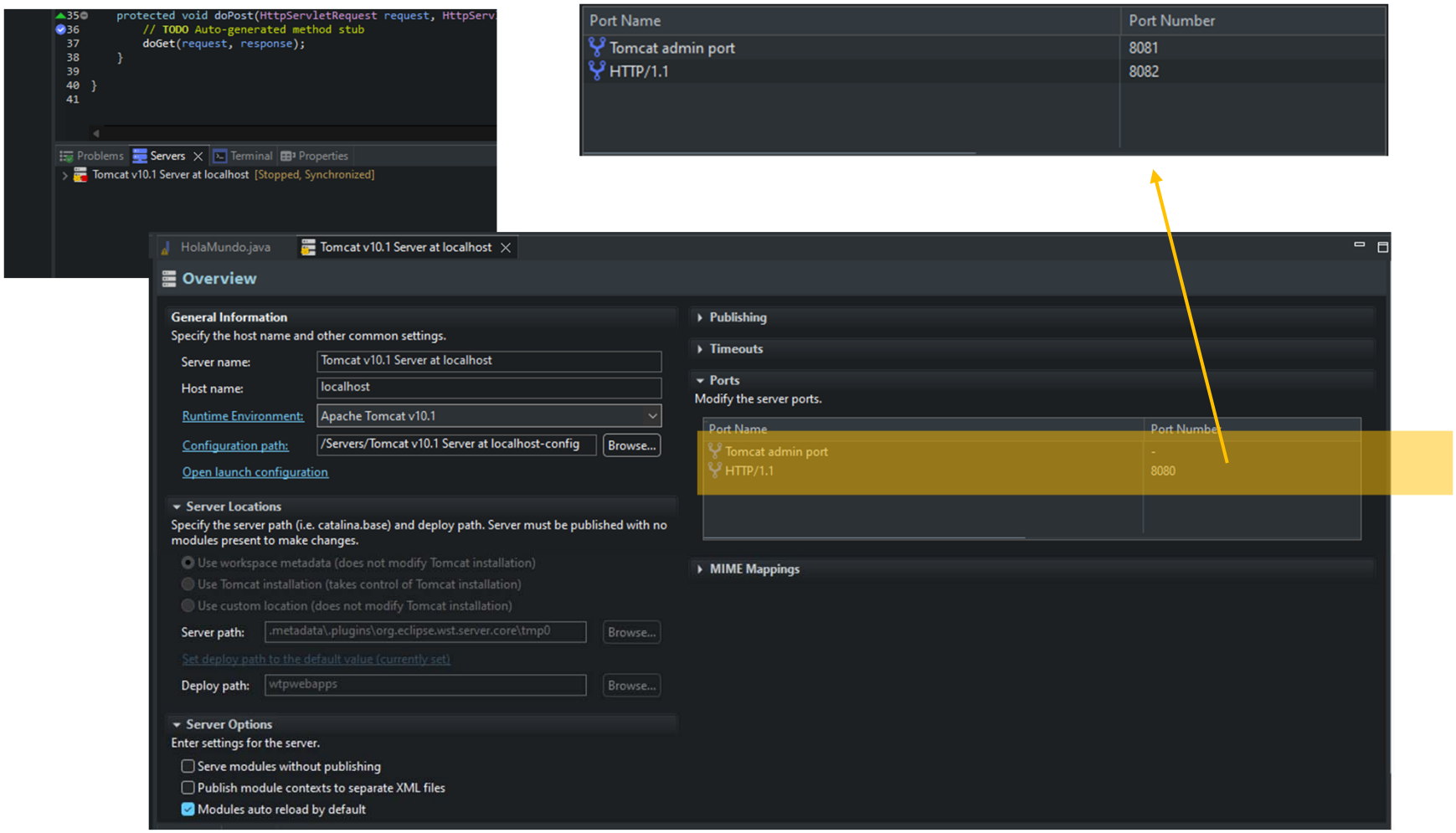
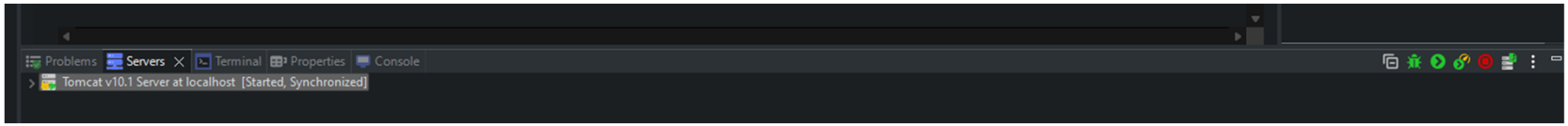
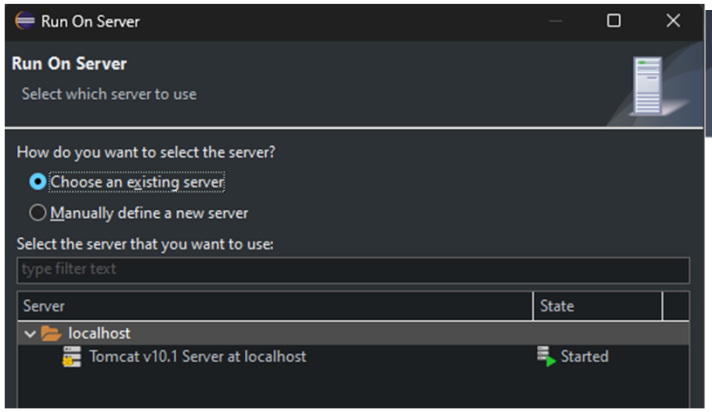
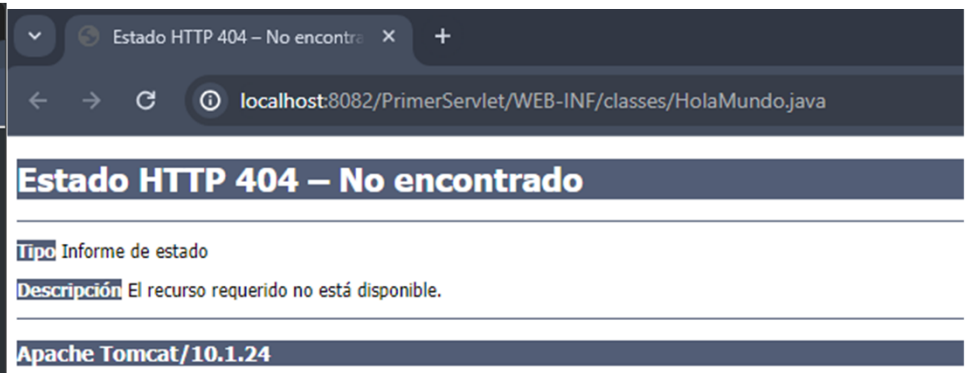
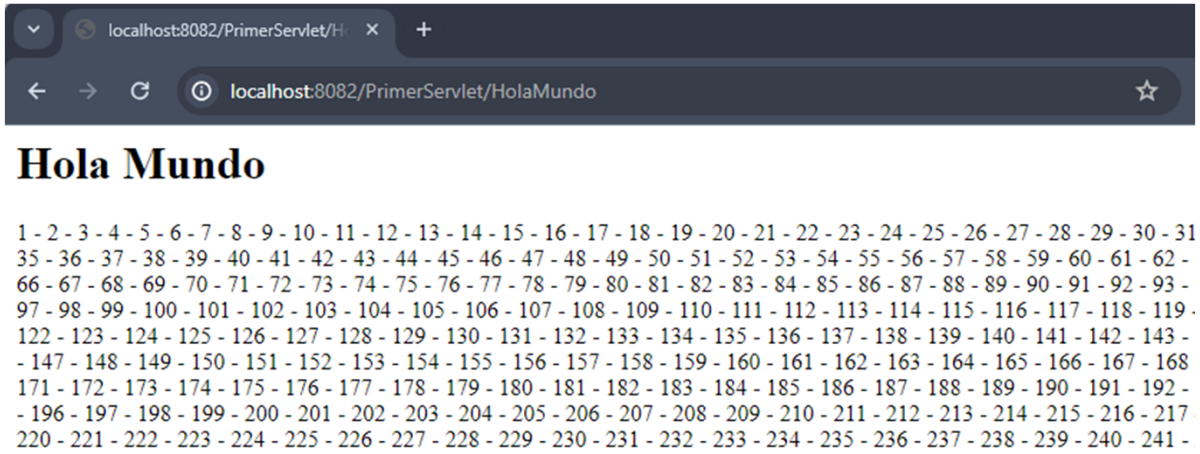


# Primer Servlet {IDE Eclipse}



# Referencias


- Marijan, B. (2022, February 17). How to install Apache Tomcat on Windows. Knowledge Base by phoenixNAP; phoenixNAP. https://phoenixnap.com/kb/install-tomcat-windows
- *Que es un Contenedor de Servlets. Instalación Apache Tomcat*. (n.d.). Edu4java.com. Retrieved May 19, 2024, from http://www.edu4java.com/es/servlet/servlet1.html
- *Crear un Servlet*. (2019, August 5). Tutoriales de programación; Rosa. https://rosamarfil.es/tutoriales/programacion/crear-un-servlet/