

# Exercises: Getting Started

Since these exercises are of the “test your IDE and deployment process” variety, you probably want to do all of them, in order. In later exercises you can pick and choose depending on your experience. These exercises assume you have Eclipse set up with Tomcat 7 in development mode. For details, see <http://wwwcoreservlets.com/Apache-Tomcat-Tutorial/>, then click on link to Tomcat 7.

1. Make sure you can deploy and test the “test-app” project. R-click on Tomcat at the bottom, choose “Add and Remove Projects”, choose “test-app”, and Add. Then start Tomcat by R-clicking and doing “Start”. Then enter <http://localhost/test-app/> in a browser. Click on the links to the HTML and JSP pages to run them. Then click on the links to test the servlets. Note that you do not have to change any code anywhere: this exercise is just to test that you have Eclipse and Tomcat configured correctly, and that you know how to deploy apps.
2. Create a new Eclipse application called “test”. (File, New, Project, Web, Dynamic Web Project. Or, if “Dynamic Web Project” is shown as an option after choosing “New”, select it. Be sure to choose Tomcat 7 as the Target runtime.)

Create a package called “newPackage”. R-click on “Java resources: src” and choose “New” and then “Package”. Go to the test-app project, R-click on TestServlet (under src/testPackage), and choose “Copy”. Go back to test/src/newPackage, R-click, and choose “Paste”.

Drop hello.html and hello.jsp into WebContent.

3. Deploy the test project on Tomcat. (R-click on Tomcat 6 at the bottom, choose “Add and Remove Projects”, choose the test project, and click “Add”.) Then:
  - Start the server. R-click on Tomcat and choose Start.
  - Start a Web browser and enter <http://localhost/test/>.
  - Run both hello.html and hello.jsp.
  - Run TestServlet (<http://localhost/test/test1>)
4. Edit hello.html in some small way, save it, and re-run it to see the changes. Note that you do *not* have to redeploy the project or restart the server.
5. Edit TestServlet.java in some small way, save it, and re-run it to see the changes. You can guess on how to change the output without really knowing servlet syntax yet. If you change the body of the doGet method, you should be able to re-run without restarting the server. But, if you change the @WebServlet annotation, you will need to restart the server after doing so. Restart the server by R-clicking on Tomcat and choosing Restart.