



Running Tomcat in Eclipse

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Agenda

- Why
- Setting Up Eclipse
- Setting Up Tomcat Instance
- Configuration
- Demonstration

Why?

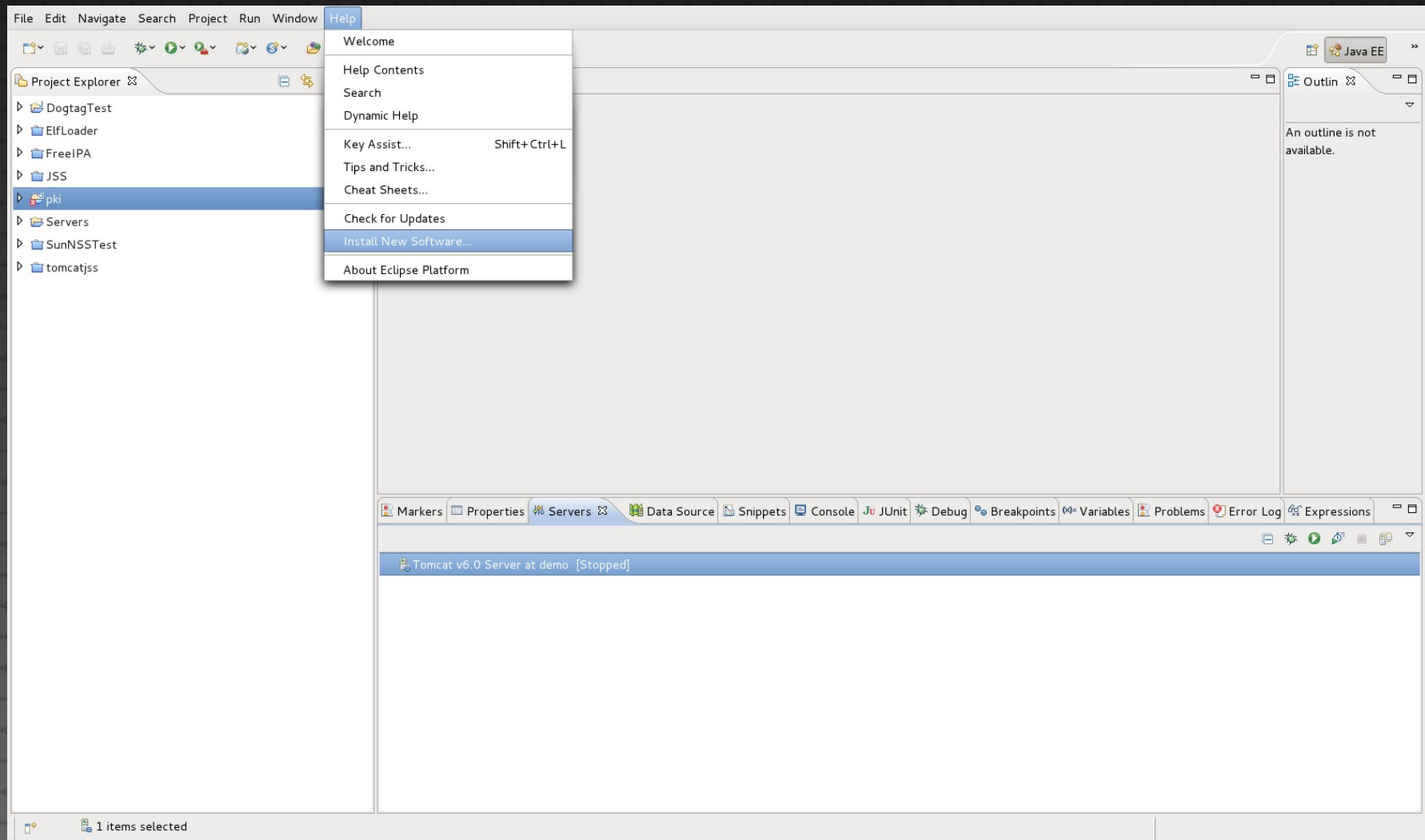


- Step through your code
- Faster debugging
- See your changes faster

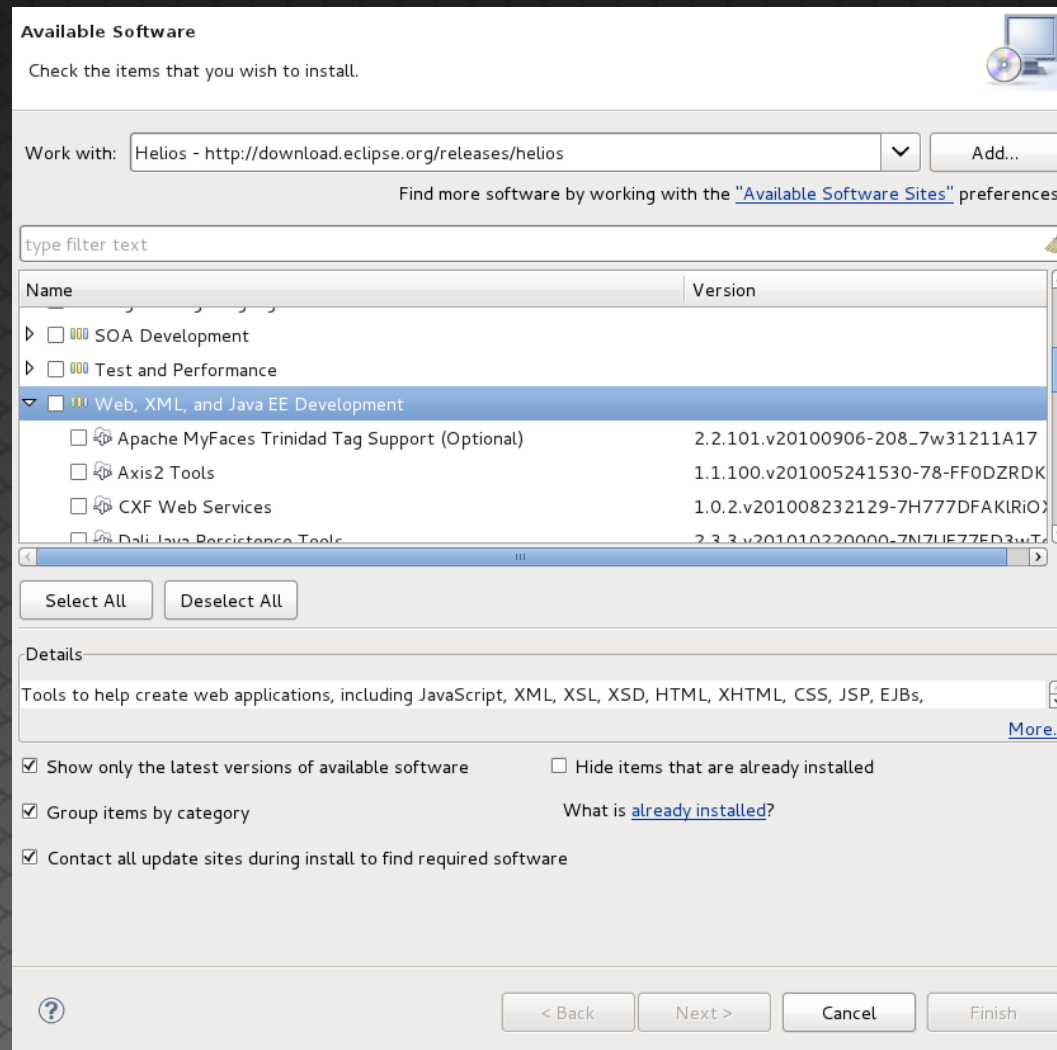
Getting JEE For Eclipse

- Help->Install New Software
- Repository:Helios
 - URL <http://Download.eclipse.org/releases/helios>

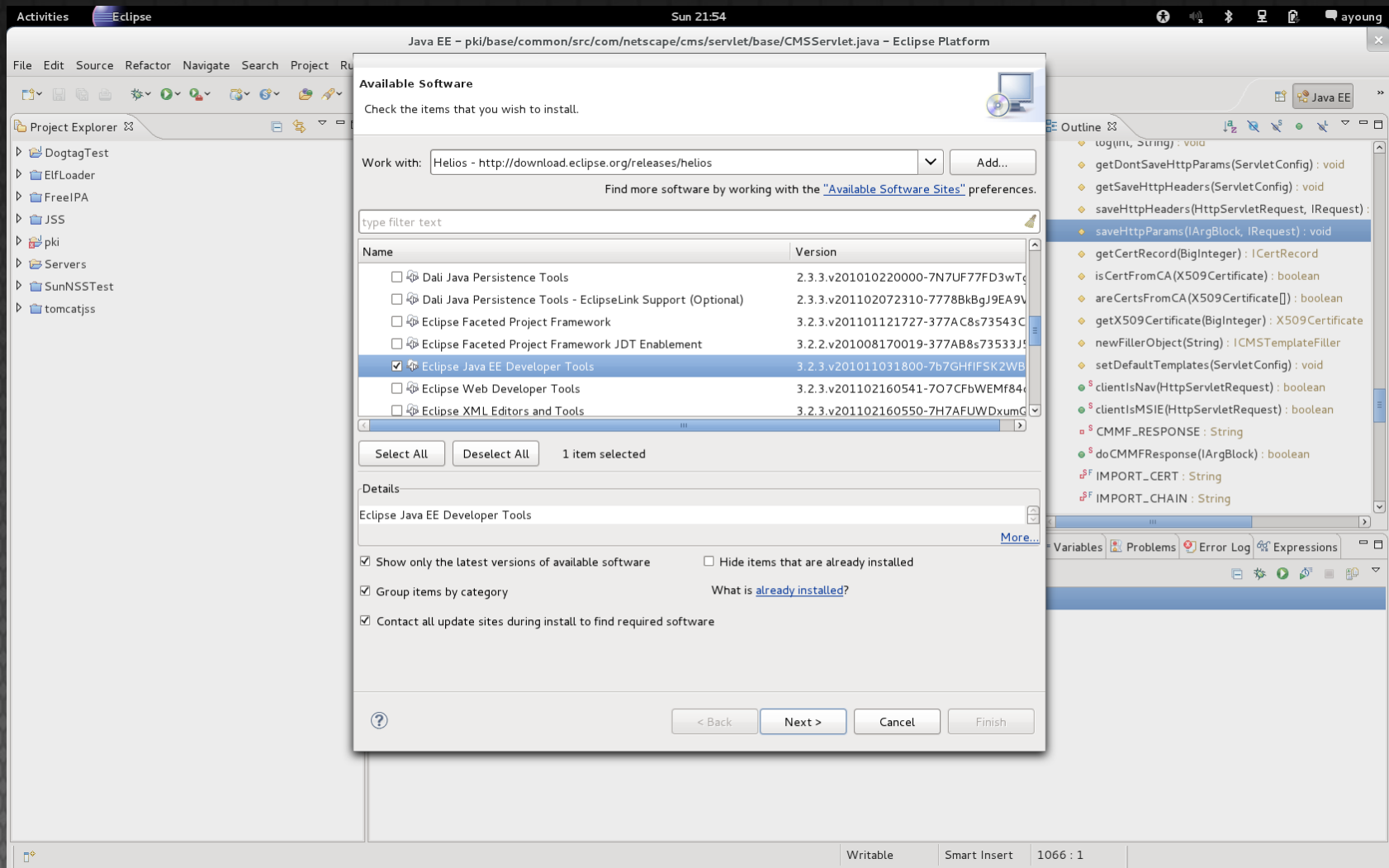
Install New Software



Installing Web Tools



Installing WebTools



Tomcat Instance



- User is you: Directory under your control:
- PKI Tomcate very customized
- Symlinks
 - demo-pki-ca -> /etc/rc.d/init.d/tomcat6
 - bin -> /usr/share/tomcat6/bin
 - lib -> /usr/share/tomcat6/lib
 - Remove webapps/ca/WEB-INF/lib/pki*\
 - Symlink webapps/ca/WEB-INF/classes to pki project in Eclipse

Tomcat Instance

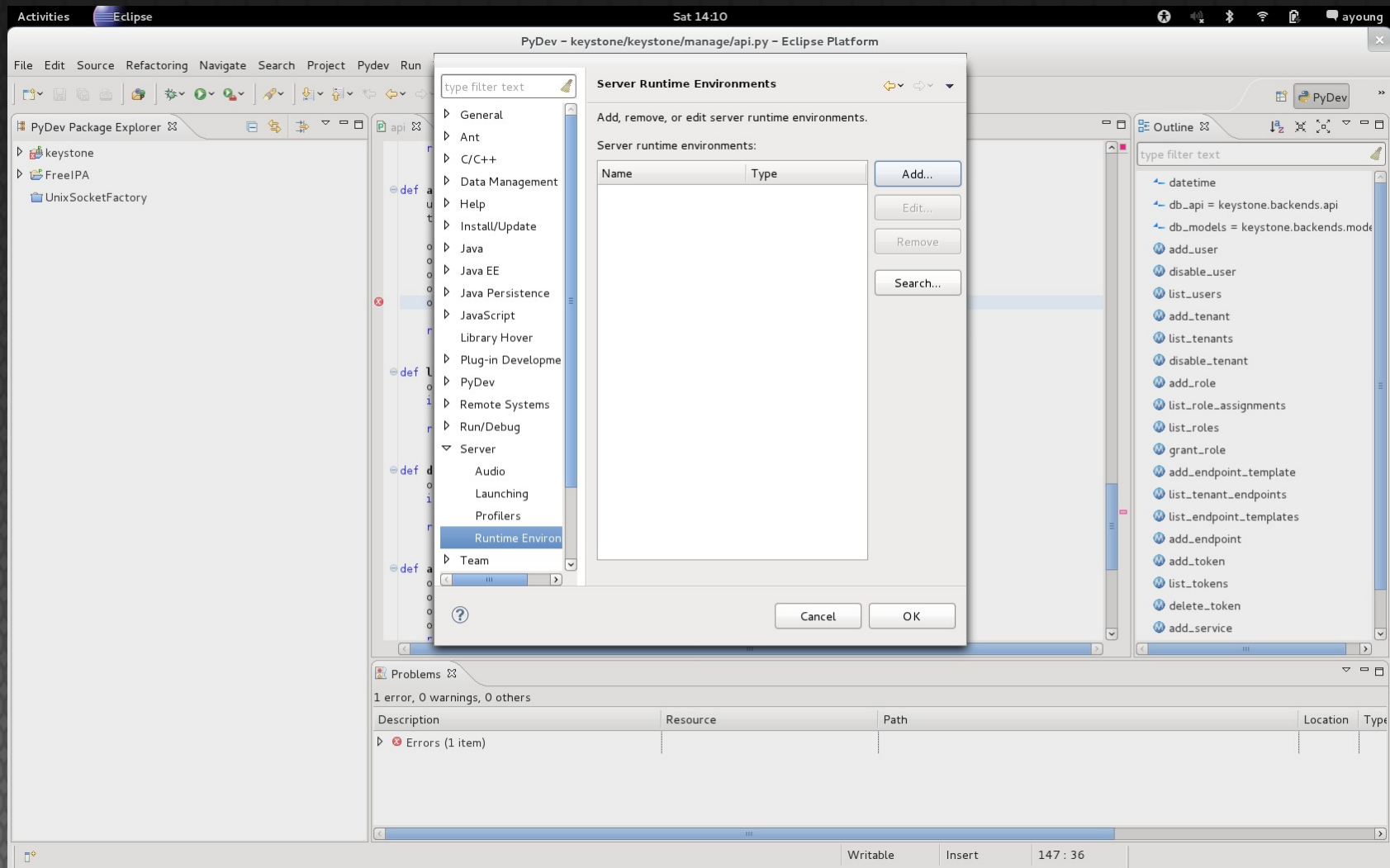


```
sudo pkicreate \  
-pki_instance_root=$HOME/apps \  
-subsystem_type=ca \  
-pki_instance_name=pki-ca-dev \  
-secure_port=8443 \  
-unsecure_port=8080 \  
-tomcat_server_port=8005 \  
-user=$USER -group=$USER -verbose
```

Runtime Environment

- Windows->Preferences->Server->Runtime Environments
- add a "Runtime Environment"
 - tomcat6
- choose the directory that pkicreate put the tomcat instance in.
 - If you missed one of the symlinks, it will give you and angry icon

Preferences->Server



Runtime: Tomcat 6

New Server Runtime Environment

Define a new server runtime environment

[Download additional server adapters](#)

Select the type of runtime environment:

type filter text

- Apache Tomcat v4.1
- Apache Tomcat v5.0
- Apache Tomcat v5.5
- Apache Tomcat v6.0**
- Apache Tomcat v7.0


Basic

Apache Tomcat v6.0 supports J2EE 1.2, 1.3, 1.4, and Java EE 5 and 6 Web modules.

☐ Create a new local server

? < Back Next > Cancel Finish

Customized Runtime

Tomcat Server 


Specify the installation directory

Name:

Tomcat installation directory:

apache-tomcat-6.0.26

JRE:



Server Project

- File->New->Other->Server->Server Project
- OR --
- Window->Perspectives->Other->JEE
 - Right click in Server View

Define new Server Project

Tomcat Server
Specify the installation directory

Name:

Tomcat installation directory:

apache-tomcat-6.0.26

JRE:

Server View

- JEE Perspective: server view
 - tab on the bottom of the window
- double click it and you should get a property sheet in the main window
- “Use Tomcat Installation”
- Open launch configuration
- Classpath
 - under user entries
 - Add tomcat-juli.jar

Server View

The screenshot shows the Eclipse IDE's Server View for a Tomcat v6.0 server. The interface is divided into several sections:

- Project Explorer:** Located on the left, it shows a project structure with folders like DogtagTest, ElfLoader, FreeIPA, JSS, pki, Servers, SunNSSTest, and tomcatjss.
- Overview:** The main section on the right, containing:
 - General Information:** Fields for Server name (Tomcat v6.0 Server at demo), Host name (demo), Runtime Environment (Apache Tomcat v6.0), and Configuration path. A blue circle highlights the [Open launch configuration](#) link.
 - Ports:** A table showing the server's ports:

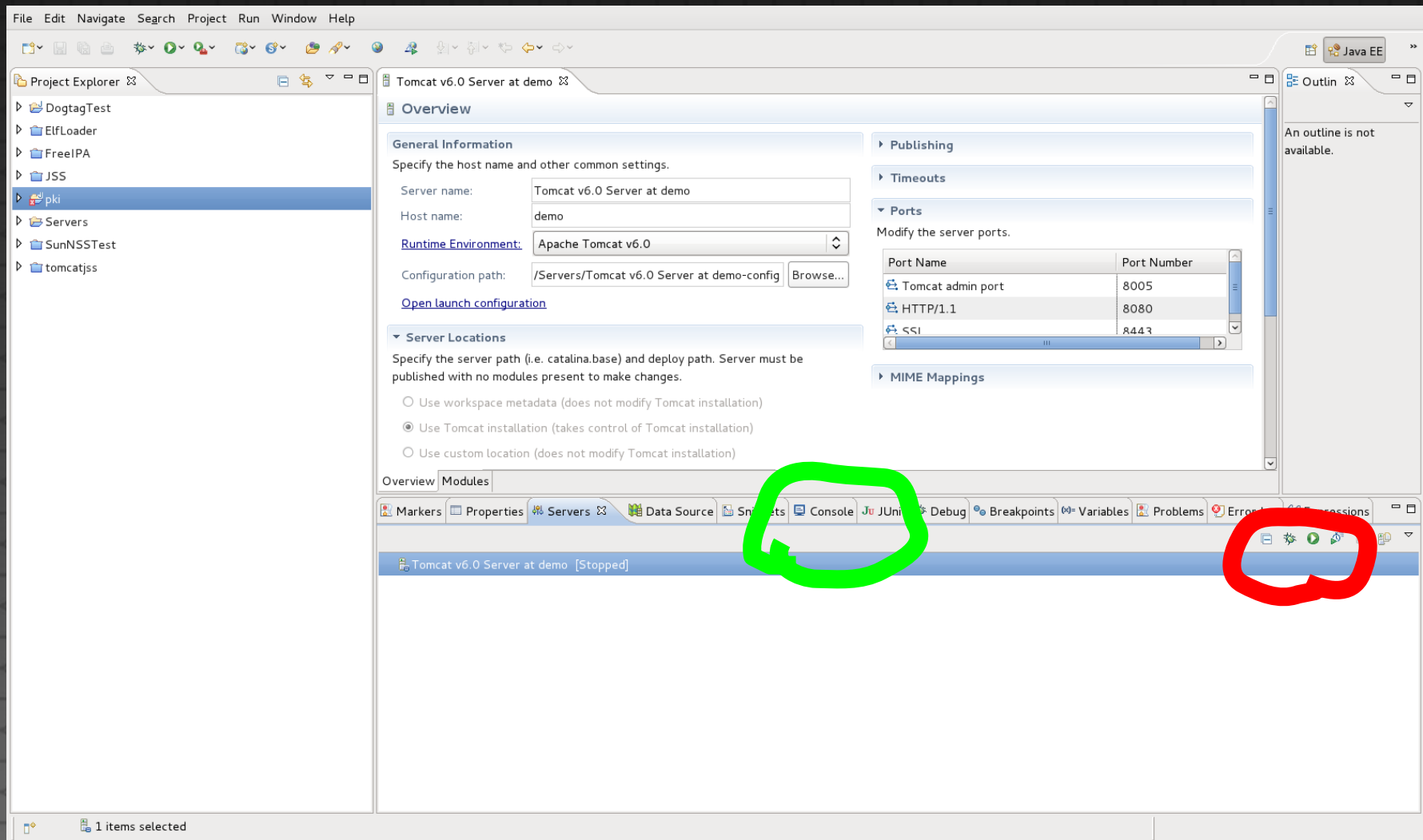
Port Name	Port Number
Tomcat admin port	8005
HTTP/1.1	8080
SSL	8443
 - Installation Options:** Two radio buttons are present: "Use Tomcat installation (takes control of Tomcat installation)" (selected) and "Use custom location (does not modify Tomcat installation)". A yellow circle highlights these options.
- Server List:** At the bottom, a list shows "Tomcat v6.0 Server at demo" with a status of "[Stopped]". A green circle highlights this entry.

The bottom status bar indicates "1 items selected".

Start server

- Same as running other applications
- Output in Console View
- Browser using Firefox as per normal

Running and Debugging



Debugging

- Link Source To PKI
- Breakpoint in known path of the application