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0.1 Tomcat

Download and install **Tomcat** [1] or simply use XAMPP [4], a very easy to install Apache Distribution.

0.2 Yars

Download **Yars** [5]. Release beta3 (2006-06-28) was used. Install it by copying *yars.war* file to Tomcat *webapps* folder.

0.3 TSKernel

Download **TSKernel** [3]. TSKernel is a library for TSC++.

0.4 TSC++

Download **TSC++** [2]. The *lib* folder contains a version of TSKernel (*tskernel.jar*). This might not be the current one. Therefore replace it with the latest one.

The TSC++ folder represents one peer. Each peer needs its own folder. Running various peers on one computer is possible when following this rule. A new peer can be created by simple copying the TSC++ folder (see figure 2).

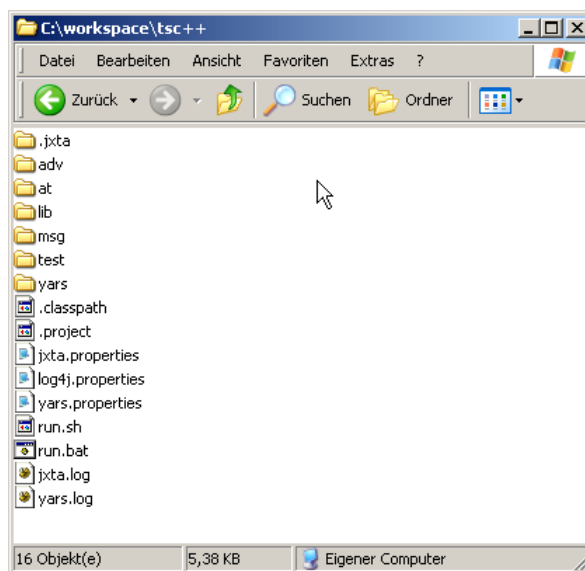


Figure 1: TSC++ peer

Two peers are different if their *.jxta* folder configurations are (peerID needs to be different, see figure 3). This information is stored in the *PlatformConfig* file. If the *PlatformConfig* file does not exist the JXTA wizard is started to automatically create one. The right settings can be seen on figure 4-6.

The most important settings are:

- <http://rdv.jxtahosts.net/cgi-bin/rendezvous.cgi?2>
- <http://rdv.jxtahosts.net/cgi-bin/relays.cgi?2>

Before running TSC++ be sure that Tomcat and Yars were installed correctly and are running.

A local installation of Tomcat is usually found at <http://localhost:8080>. Yars can be normally found at <http://localhost:8080/yars/>.

If there are multiple peers running on one system (each peer having its own *yars* folder) automatic clean up (starting with an empty Yars) might not be possible. Windows for instance recognizes that Tomcat is currently using Yars and blocks the clean up operation. Clean up can be done manually by shutting down Tomcat and deleting the *yars* folder in the Tomcat *webapps* folder. Be sure to keep the *war* file, Tomcat will automatically (re)deploy it on startup (see figure 7). To check that Yars was cleaned up simply use your browser:

- <http://localhost:8080/yars/meta>
- <http://localhost:8080/yars/bindings>

Figures 8-9 show a non-empty Yars.

Be sure to have a look at *yars.properties* file and set the properties depending on your Yars installation. The properties presented in *jxta.properties* file should not be changed!

To run TSC++ use *run.bat* or *run.sh* depending on your operation system.

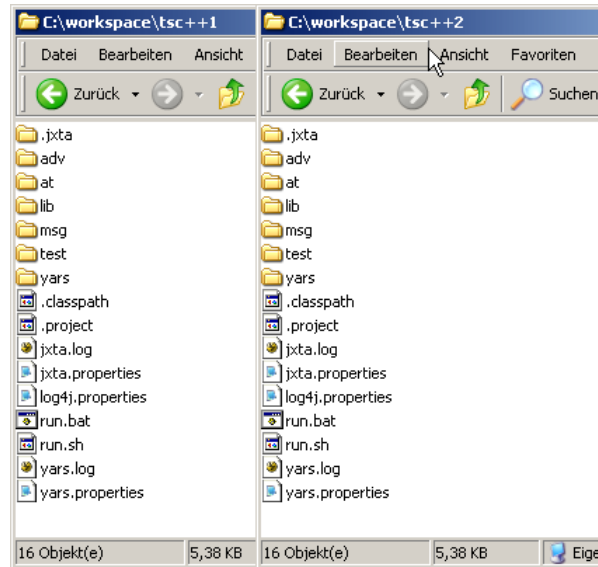


Figure 2: two TSC++ peers

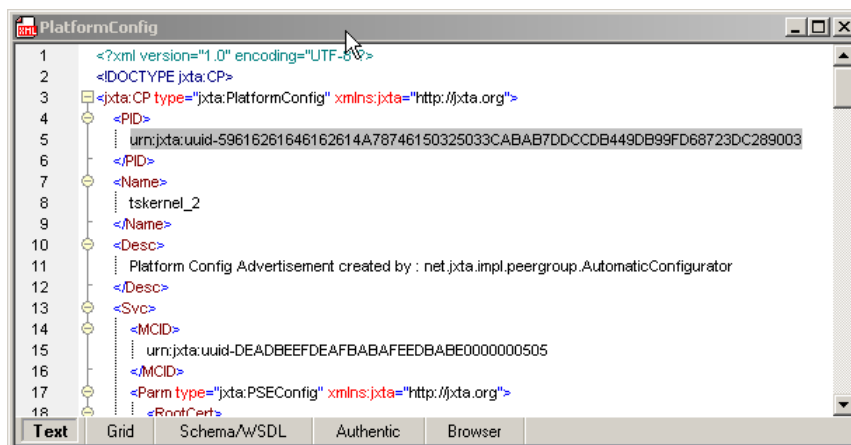


Figure 3: PlatformConfig

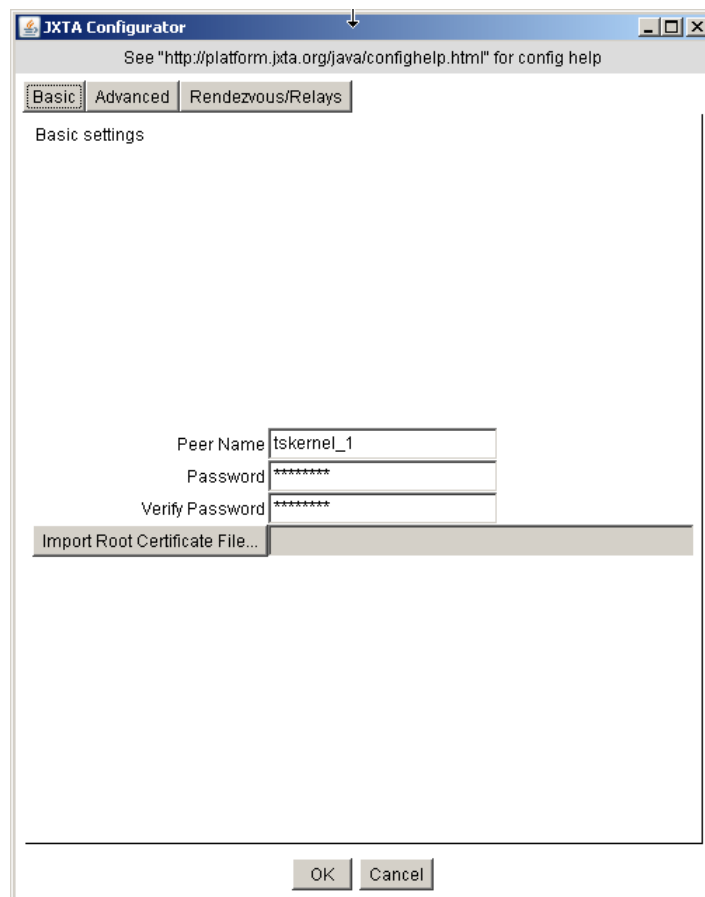


Figure 4: JXTA Wizard

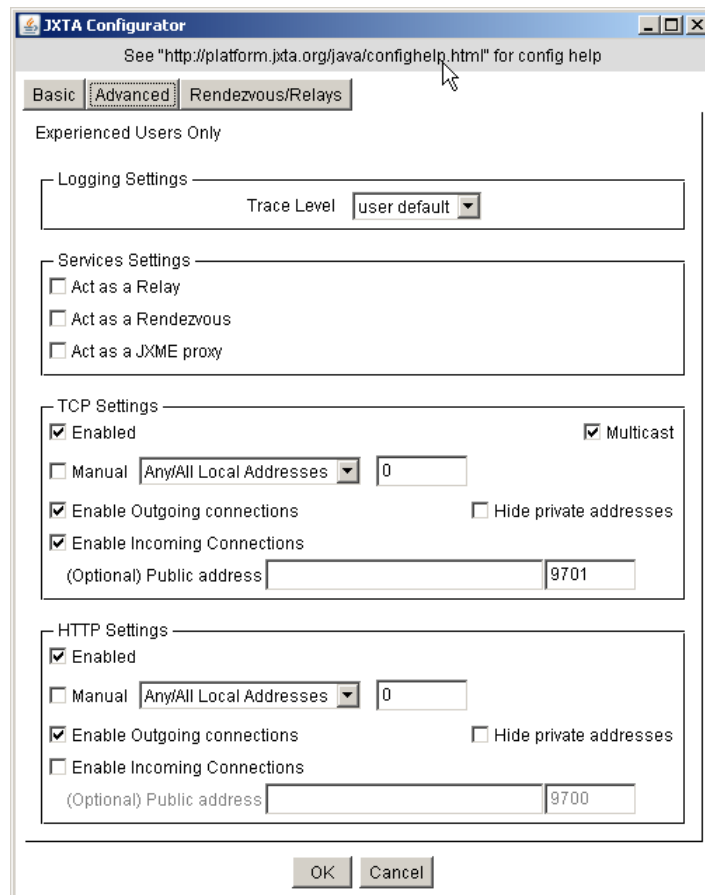


Figure 5: JXTA Wizard

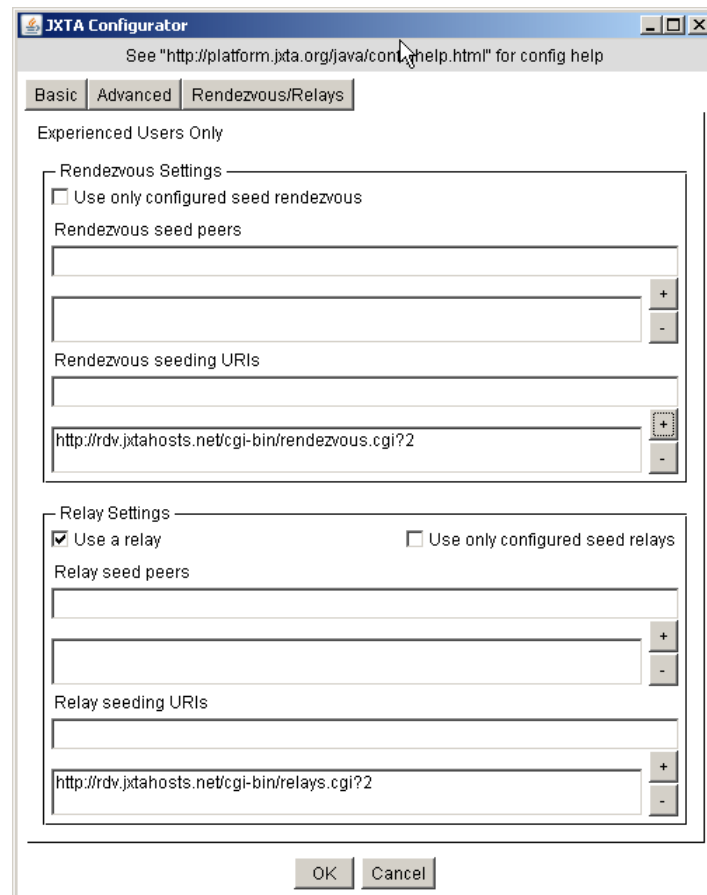


Figure 6: JXTA Wizard

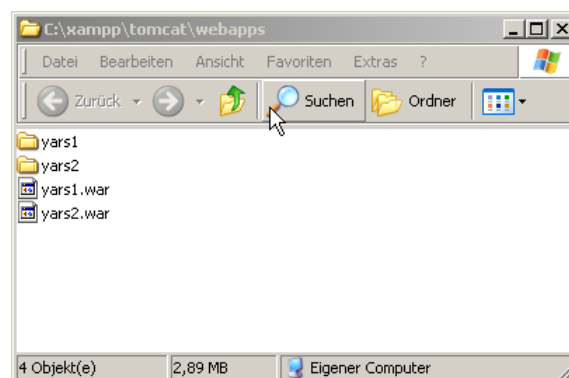


Figure 7: Multiple Yars

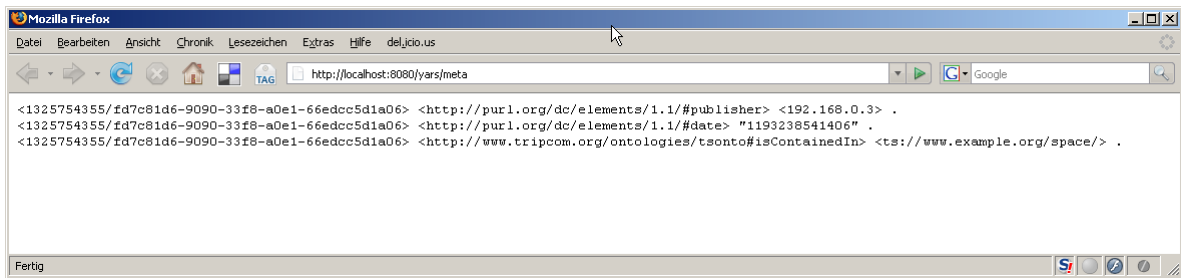


Figure 8: Browse Yars

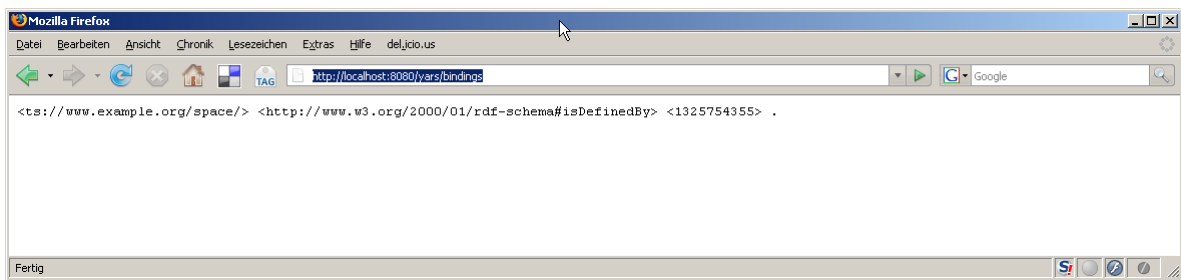


Figure 9: Browse Yars

Bibliography

- [1] *Apache Tomcat*. <http://tomcat.apache.org/>.
- [2] *TSC++*. <http://www.inopinabilis.com/tsc++/page.php5>.
- [3] *TSKernel*. <http://www.inopinabilis.com/tsc++/page.php5>.
- [4] *Xampp*. <http://www.apachefriends.org/en/xampp.html>.
- [5] *Yars*. <http://sw.deriv.org/2004/06/yars/>.