

Installation of Jinsight on the server side is even more straightforward than on the client side. Quite simply, we take our *JinsightServer.tar*, upload it to our server in a directory of our choice, extract it, and run a quick verification test. Here, I have an SSH session to a z/OS server, but you can also use Telnet or OMVS. I'm going to make a directory, called */opt/zJinsight/* and change into that directory. In the background, I'll quickly upload *JinsightServer.tar*, and here it is. If we now extract that with *tar -xvf*, we now have three different files: *libjinsight-zOS-31bit.so*, *libjinsight-zLinux-31bit.so*, and *jinsightServer.jar*. The first two are essentially Jinsight itself. They are JVMPI plugin shared libraries, which the Java VM will load when we ask it to. The third, *jinsightServer.jar*, contains two class files, one which allows Jinsight to calculate its overhead more accurately and another one which allows you to programmatically control profiling, if required. For verification, the easiest way would be to actually run Jinsight on the command line. First of all, let's check we have a Java Virtual Machine installed and ready for us to use with *java -version*. We are running Java 1.4.2 here. Now we have to make sure that the JVM can actually find our shared library. We need to export an environment variable *LIBPATH*. We will set it to the current *LIBPATH* plus */opt/zJinsight/*. Now we can run that java command again, *java*, but this time we will add the special command line parameter, which loads and initializes Jinsight. This is *-Xrun* and then, a cutdown version of the actual library name. We take *lib* off the front and *.so* off the back. This is z/OS, so we will make it *jinsight-zOS-31bit* and we'll give it *-version*, so it has something to do. Press *Enter*, and we see the eye catcher, the boilerplate of identification of Jinsight. So, we know that Jinsight has been found, has been uploaded and installed correctly, and now we can move on to profiling proper.

I have also done this on zLinux. I already have my files installed. On zLinux I need to export a slightly different environment variable, *LD_LIBRARY_PATH*, which we will set to the current value plus */opt/zJinsight/*. If I execute *java -Xrunjinsight-zLinux-31bit -version*, then we get our Jinsight boilerplate and the Java version.