The Sting Build Environment

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1 Getting the source

gsa1 and gsa2 are earmarked for Sting repository development, and the scr1 thumper is used for Sting storage.

To download the source:

1. log into gsa1 or gsa2. Create a directory for yourself on the scr1 thumper as follows:

   ```
   mkdir /wga/scr1/{YOUR USER NAME}
   ```

2. Download the source as follows:

   ```
   svn co https://svnrepos/Sting/trunk Sting
   ```

3. (Optional) mount the thumper locally using share name smb://thumper01/scr1.

2 Build Prerequisites

Sting requires Java SE 6 to compile. The steps below describe preparing your system for JDK 1.6 compilation.

2.1 Mac

1. Download the latest Mac Java service pack. At the time of writing, the latest service pack is available here: http://support.apple.com/downloads/Java_for_Mac_OS_X_10_5_Update_2
2. Set the JAVA_HOME environment variable to the location of JDK1.6 (/System/Library/Frameworks/JavaVM.framework/Versions/1.6/Home).

2.2 Linux in the Broad Environment

To compile Sting on gsa1 or gsa2, add the following lines to your /.my.cshrc:

```
use -q Java-1.6
use -q Ant-1.7
```

3 Building the Source

To build the source, locate all build.xmls for required projects. In each directory containing a build.xml, run the command:

`ant`

You might also find the following ant targets useful.

compile Compiles all java code in the source tree. Places generated classes in the build directory.

dist Generates jar files, suitable for running via java -jar YOUR_JAR. Places resulting jars in the dist subdirectory.

resolve Resolves third-party dependencies. Downloads all third-party dependencies to the lib directory.

javadoc Generates javadoc for the source tree. Places javadoc in the javadoc directory.

clean Removes artifacts from old compilations / distributions.

View all available ant targets by running 'ant -projecthelp' in the directory containing build.xml.

4 Adding Third-party dependencies

A large number of popular third-party tools are available via the maven repository (mvnrepository.com). If your tool is available in the maven repository, add a line to the ivy.xml file similar to the following:

```
<dependency org="junit" name="junit" rev="4.4" />
```

If your third-party dependency is not available via ivy, talk to Aaron or Matt.