

1 Setup from sources

Overview

If [installed](#) from sources, the following information will help you in setting up Zabbix [Java gateway](#).

Overview of files

If you obtained Java gateway from sources, you should have ended up with a collection of shell scripts, JAR and configuration files under `$PREFIX/sbin/zabbix_java`. The role of these files is summarized below.

```
bin/zabbix-java-gateway-$VERSION.jar
```

Java gateway JAR file itself.

```
lib/logback-core-0.9.27.jar  
lib/logback-classic-0.9.27.jar  
lib/slf4j-api-1.6.1.jar  
lib/android-json-4.3_r3.1.jar
```

Dependencies of Java gateway: [Logback](#), [SLF4J](#), and [Android JSON](#) library.

```
lib/logback.xml  
lib/logback-console.xml
```

Configuration files for Logback.

```
shutdown.sh  
startup.sh
```

Convenience scripts for starting and stopping Java gateway.

```
settings.sh
```

Configuration file that is sourced by startup and shutdown scripts above.

Configuring and running Java gateway

By default, Java gateway listens on port 10052. If you plan on running Java gateway on a different port, you can specify that in `settings.sh` script. See the description of [Java gateway configuration file](#) for how to specify this and other options.

Port 10052 is not [IANA registered](#).

Once you are comfortable with the settings, you can start Java gateway by running the startup script:

```
$ ./startup.sh
```

Likewise, once you no longer need Java gateway, run the shutdown script to stop it:

```
$ ./shutdown.sh
```

Note that unlike server or proxy, Java gateway is lightweight and does not need a database.

Configuring server for use with Java gateway

With Java gateway up and running, you have to tell Zabbix server where to find Zabbix Java gateway. This is done by specifying `JavaGateway` and `JavaGatewayPort` parameters in the [server configuration file](#). If the host on which JMX application is running is monitored by Zabbix proxy, then you specify the connection parameters in the [proxy configuration file](#) instead.

```
JavaGateway=192.168.3.14
JavaGatewayPort=10052
```

By default, server does not start any processes related to JMX monitoring. If you wish to use it, however, you have to specify the number of pre-forked instances of Java pollers. You do this in the same way you specify regular pollers and trappers.

```
StartJavaPollers=5
```

Do not forget to restart server or proxy, once you are done with configuring them.

Debugging Java gateway

In case there are any problems with Java gateway or an error message that you see about an item in the frontend is not descriptive enough, you might wish to take a look at Java gateway log file.

By default, Java gateway logs its activities into `/tmp/zabbix_java.log` file with log level "info". Sometimes that information is not enough and there is a need for information at log level "debug". In order to increase logging level, modify file `lib/logback.xml` and change the level attribute of `<root>` tag to "debug":

```
<root level="debug">
  <appender-ref ref="FILE" />
</root>
```

Note that unlike Zabbix server or Zabbix proxy, there is no need to restart Zabbix Java gateway after changing `logback.xml` file - changes in `logback.xml` will be picked up automatically. When you are done with debugging, you can return the logging level to "info".

If you wish to log to a different file or a completely different medium like database, adjust `logback.xml` file to meet your needs. See [Logback Manual](#) for more details.

Sometimes for debugging purposes it is useful to start Java gateway as a console application rather than a daemon. To do that, comment out `PID_FILE` variable in `settings.sh`. If `PID_FILE` is omitted, `startup.sh` script starts Java gateway as a console application and makes Logback use `lib/logback-console.xml` file instead, which not only logs to console, but has logging level “debug” enabled as well.

Finally, note that since Java gateway uses SLF4J for logging, you can replace Logback with the framework of your choice by placing an appropriate JAR file in `lib` directory. See [SLF4J Manual](#) for more details.

JMX monitoring

See [JMX monitoring](#) page for more details.

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