



Best practices

Change Platform Symphony component log message level

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Introduction

In Symphony, log files are very important for troubleshooting during development and testing because they contain important runtime information about the general health of workload daemons and system services.

Log messages can be generated for Symphony components that run automatically by default, such as session director(sd), session manager(ssm), service instance manager(sim), and cli, in addition to kernel daemons(lim, elim, mlim, pem, vemkd). Other components are triggered by the client's action but run in the background such as soamdeploy.

There are five levels for a log message: FATAL, ERROR, WARN, INFO, DEBUG and ALL. The log files will record more and more runtime information by increasing the level.

Tips

There are 3 ways to change log levels for workload-related components.

1. For the command soamlog, you can change the log level for Symphony components and the workload of their applications dynamically; refer to soamlog help.
2. You can change the logging configuration files manually. The default locations of the logging configuration (properties) files are here:

Windows: %SOAM_HOME%\conf

Linux/UNIX: \$SOAM_HOME/conf

For example, if you want to get the debug-level message for soamdeploy, just replace the line `log4j.rootLogger=INFO, SOAMDEPLOY` with `log4j.rootLogger=DEBUG, stdout, SOAMDEPLOY` in `$SOAM_HOME/conf/sd.log4j.properties` and make sure the line `log4j.rootLogger=OFF` is commented out. Once the property files are changed, restart the related components. You can also refer to the subject "About log files and levels" for more information in the Knowledge Center.

3. You can use the command `egosh debug` to open/close the kernel daemons log including `vemkd`, `pem`, and `lim`; refer to the `egosh debug` command help.

Note: After the troubleshooting is done, roll the log message level back to its original setting to maintain Symphony performance.

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