

# Trac Logging

Trac supports logging of system messages using Python's [?logging module](#).

Logging is configured in the [\[logging\]](#) section of [TracIni](#).

## Supported Logging Methods

The log method is set using the [\[logging\] log\\_type](#) option, which accepts the following values:

### **none**

Suppress all log messages.

### **file**

Log messages to a file, specified with the [\[logging\] log\\_file](#) option. Relative paths for `log_file` are resolved relative to the environment `log` directory.

### **stderr**

Output log entries to console ([tracd](#) only).

### **syslog**

(UNIX) Send log messages to the local syslogd via named pipe `/dev/log`. By default, syslog will write them to the `/var/log/messages` file.

### **eventlog**

(Windows) Use the system's NT Event Log.

## Log Levels

The verbosity level of logged messages can be set using the [\[logging\] log\\_level](#) option. The log level defines the minimum level of urgency required for a message to be logged, and those levels are:

### **CRITICAL**

Log only the most critical (typically fatal) errors.

### **ERROR**

Log failures, bugs and errors.

### **WARN**

Log warnings, non-interrupting events.

### **INFO**

Diagnostic information, log information about all processing.

### **DEBUG**

Trace messages, profiling, etc.

Additionally, you can enable logging of SQL statements at debug level. This is turned off by default, as it's very verbose. Set [\[trac\] debug\\_sql = yes](#) to activate.

## Log Format

The output format for log entries can be specified in the [\[logging\] log\\_format](#) option. The format is a string which can contain any of the [?Python logging Formatter variables](#). Additionally, the following Trac-specific variables can be used:

**\$(basename)s**

The environment directory name.

**\$(path)s**

The absolute path of the environment directory.

**\$(project)s**

The originating project's name.

Note that variables are identified using a dollar sign ( $\$(\dots)s$ ) instead of percent sign ( $\%(\dots)s$ ).

The default format is:

In a multi-project environment where all logs are sent to the same place (e.g. `syslog`), it makes sense to add the project name. In this example we use `basename` since that can generally be used to identify a project:

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See also: [TracIni](#), [TracEnvironment](#)