

# Trac Logging

Trac supports logging of system messages using the standard [logging module](#) that comes with Python.

Logging is configured in the `[logging]` section in [trac.ini](#).

## Supported Logging Methods

The log method is set using the `log_type` option in [trac.ini](#), which takes any of the following values:

### **none**

Suppress all log messages.

### **file**

Log messages to a file, specified with the `log_file` option in [trac.ini](#).

### **stderr**

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

### **syslog**

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

### **eventlog**

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

## Log Levels

The verbosity level of logged messages can be set using the `log_level` option in [trac.ini](#). 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.

## Log Format

Starting with Trac 0.10.4 (see #2844), it is possible to set the output format for log entries. This can be done through the `log_format` option in [trac.ini](#). 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 last path component of the current environment.

### **\$(path)s**

The absolute path for the current environment.

## **\$(project)s**

The originating project's name.

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

The default format is:

```
log_format = Trac[$(module)s] $(levelname)s: $(message)s
```

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:

```
log_format = Trac[$(basename)s:$(module)s] $(levelname)s: $(message)s
```

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