

## 46. PHP Error and Logging Functions

### 46.1. PHP Error and Logging Introduction

The error and logging functions allows error handling and logging.

The error functions allow users to define error handling rules, and modify the way the errors can be logged.

The logging functions allow users to log applications and send log messages to email, system logs or other machines.

### 46.2. Installation

The error and logging functions are part of the PHP core. There is no installation needed to use these functions.

### 46.3. PHP Error and Logging Functions

**PHP:** indicates the earliest version of PHP that supports the function.

Function	Description	PHP
debug_backtrace()	Generates a backtrace	4
debug_print_backtrace()	Prints a backtrace	5
error_get_last()	Gets the last error occurred	5
error_log()	Sends an error to the server error-log, to a file or to a remote destination	4
error_reporting()	Specifies which errors are reported	4
restore_error_handler()	Restores the previous error handler	4
restore_exception_handler()	Restores the previous exception handler	5
set_error_handler()	Sets a user-defined function to handle errors	4
set_exception_handler()	Sets a user-defined function to handle exceptions	5
trigger_error()	Creates a user-defined error message	4
user_error()	Alias of trigger_error()	4

### 46.4. PHP Error and Logging Constants

**PHP:** indicates the earliest version of PHP that supports the constant.

Value	Constant	Description	PHP
1	E_ERROR	Fatal run-time errors. Errors that cannot be recovered from. Execution of the script is halted	
2	E_WARNING	Non-fatal run-time errors. Execution of the script is	

		not halted	
4	E_PARSE	Compile-time parse errors. Parse errors should only be generated by the parser	
8	E_NOTICE	Run-time notices. The script found something that might be an error, but could also happen when running a script normally	
16	E_CORE_ERROR	Fatal errors at PHP startup. This is like an E_ERROR in the PHP core	4
32	E_CORE_WARNING	Non-fatal errors at PHP startup. This is like an E_WARNING in the PHP core	4
64	E_COMPILE_ERROR	Fatal compile-time errors. This is like an E_ERROR generated by the Zend Scripting Engine	4
128	E_COMPILE_WARNING	Non-fatal compile-time errors. This is like an E_WARNING generated by the Zend Scripting Engine	4
256	E_USER_ERROR	Fatal user-generated error. This is like an E_ERROR set by the programmer using the PHP function trigger_error()	4
512	E_USER_WARNING	Non-fatal user-generated warning. This is like an E_WARNING set by the programmer using the PHP function trigger_error()	4
1024	E_USER_NOTICE	User-generated notice. This is like an E_NOTICE set by the programmer using the PHP function trigger_error()	4
2048	E_STRICT	Run-time notices. PHP suggest changes to your code to help interoperability and compatibility of the code	5
4096	E_RECOVERABLE_ERROR	Catchable fatal error. This is like an E_ERROR but can be caught by a user defined handle (see also set_error_handler())	5
6143	E_ALL	All errors and warnings, except of level E_STRICT	5