

How to resolve scanning issues reported by Fortify



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Question

Fortify has reported errors or warnings when scanning my application. How do I resolve these errors?

Answer

There are a number of different error messages that may be reported by Fortify. Common error messages will be listed here along with pointers to other technical notes that provide information on how to resolve those issues. To retrieve a list of error messages follow the instructions in [How to view error messages reported by Fortify](#). It might also help to [generate a debug log file](#) that can provide more insight into the problem.

Common error messages and their solutions include:

Error Code(s)	Error Message	Notes
N/A	No warnings occurred during analysis	No errors have occurred. The scan is good to go.
N/A	Error performing ASP.NET Precompilation	How to troubleshoot "Error performing ASP.NET Precompilation"
1001, 1381, 1554, 10000, ...	Error parsing file or Syntax error	How to troubleshoot a file parsing or syntax error
1105, 1480	There is not enough memory available to complete analysis	Increase the amount of memory allocated to Fortify: How to increase memory for Fortify to do translation
1114	Function . . . is too complex for exhaustive dataflow analysis and further analysis will be skipped (stack)	How to troubleshoot "Function...is too complex" errors
1124, 1127	Scan progress is slow due to [critically] low memory	This error doesn't affect the accuracy of the results, however to speed the scan up see: How to increase memory for Fortify to do translation
1137	Function . . . is too complex for exhaustive dataflow analysis and further analysis will be skipped (visits)	How to troubleshoot "Function...is too complex" errors
1138	Function . . . is too complex for exhaustive dataflow analysis and further analysis will be skipped (time)	How to troubleshoot "Function...is too complex" errors
1214	Multiple definitions found for class	Resolve the multiple class definitions. Consider scanning the code into multiple FPR files, if appropriate.

HPE Fortify Version	4.30 and later
Programming Language	<input checked="" type="checkbox"/> C/C++ <input checked="" type="checkbox"/> .NET <input checked="" type="checkbox"/> Java <input checked="" type="checkbox"/> Objective-C <input checked="" type="checkbox"/> Other
Fortify Audit Workbench	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Fortify IDE Plugin	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Other Fortify Component	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Request code review tools, validations, and support [HERE](#).

1215	Could not locate the deployment descriptor (web.xml) for your web application	How to troubleshoot warnings that cannot locate web.xml or WEB-INF directory
1219	Cannot locate class [...] in the given search path and the Microsoft .NET Framework libraries	How to troubleshoot "Cannot locate class..."
1225	Unable to locate the Microsoft .NET disassembler tool (ildasm)	How to troubleshoot "Unable to locate the Microsoft .NET disassembler tool (ildasm)..."
1237	The following references to java classes could not be resolved [...]	Modify the classpath supplied to Fortify to include the jar files which contain the listed classes.
1343	Function . . . is too complex for controlflow analysis and will be skipped. (time)	How to troubleshoot "Function...is too complex" errors
1425	Option "-source-base-dir" (or property "com.fortify.sca.SourceBaseDir") should be set when processing cfml files	Set -source-base-dir as recommended
1501	Classpath entry . . . doesn't exist	Modify the classpath supplied to Fortify as needed to provide the correct class path
6001	No files were excluded as the file patterns [...] specified for -exclude option did not match any files	This error does not affect the accuracy of the results, however it may mean some files were scanned that were meant to be excluded.
10002	Unable to parse T-SQL at [...]	How to scan PL/SQL on Windows
12003	Assuming Java source level to be 1.5 as it was not specified.	Specify the Java version used either in the GUI or with the <code>-source</code> or <code>-jdk</code> command line options.
12004, 12005	The PHP frontend was unable to resolve the following include	How to troubleshoot "The PHP frontend was unable to resolve the following include..."
12004, 12006	The ASP/VBScript frontend was unable to resolve the following include / You may need to define some Virtual Roots.	How to troubleshoot "The ASP/VBScript frontend was unable to resolve the following include..."
12004, 12010	The ActionScript frontend was unable to resolve the following import	How to troubleshoot "The ActionScript frontend was unable to resolve the following import..."

12004	The ruby frontend was unable to resolve the following require	How to troubleshoot "The ruby frontend was unable to resolve the following require..."
12019	The following references to java functions could not be resolved	See the following blog post on this error
12020	The following classes were not found, but a suggestion of which jar file might contain the class is provided.	Modify the classpath supplied to Fortify to include the jar files which contain the listed classes.
12022	The class [. .] could not be found on the classpath, but it was found in the jar provided by HPE Fortify. . .	Set the Java version explicitly, if not set, and modify the classpath supplied to Fortify to include the jar files indicated. If Fortify pulled in the correct version of the jar files then this can be considered not an issue but a readme file must be included explaining they are the correct versions.

The following error messages have been noted, however the Software Assurance Program Office does not yet have guidance on how to resolve these issues. It is recommended to try to resolve these issues using the following steps:

- Generate a [log file](#) and look through it for more information about the issue
- Open a [support ticket](#) for assistance
- Contact Fortify technical support (fortifytechsupport@hpe.com) for assistance
- If these steps cannot resolve the issue, include your communications with Fortify technical support along with your V&V Secure Code Review materials and they will be taken into consideration when preparing the report

Please note that this is not a complete list of error messages and will be expanded as more become known:

Error code(s)	Error Message	Notes
1	Unexpected exception: higher order analysis	N/A
101	File . . . not found	N/A
1002, 1003	Unexpected exception while resolving file	N/A
1005	Unexpected exception during dataflow analysis	N/A
1009	Unexpected exception while building call graph	N/A
1038	Unexpected exception in initial analysis phase	N/A
1142	An unexpected error occurred during internal memory management. The scan will continue, but memory may be quickly exhausted and scan results may be incomplete.	N/A

1207	Config file . . . could not be located for web app	N/A
1213	Unable to resolve field	N/A
1227	An exception occurred while trying to load the classpath archive...The file may be corrupt or unreadable.	N/A
1228	The properties file . . . ends in a continuation marker. The file may be corrupt.	N/A
1236	Failed to translate the following aspx files into analysis model.	N/A
1237	The following references to java symbols could not be resolved.	Some instances may be resolved by adjusting the classpath provided to Fortify, but that does not fix this issue in all instances.
1551, 1552	Multiple ColdFusion errors (Unable to resolve component, Couldn't locate function, Unexpected token, etc)	Can be related to using unsupported versions of ColdFusion.
12004	The Java frontend was unable to resolve the following include	N/A
13509	Rulescript errors	In the past this has been a Fortify bug (since resolved)

Some error messages may be the result of issues in the Fortify tool. Confirmed issues, and how to handle them, are posted in the [OISSWA Blog](#), as well as [this technical note on parsing/syntax errors](#).

If you are having trouble resolving a warning or error message, see [our FAQ](#) for information on opening a support ticket.

References

- See referenced technical notes