

Table of Contents

1 The Pylint plugin.....	1
1.0.1 Description.....	1
1.0.2 Version.....	1
1.0.3 Homepage.....	1
1.1 Activation.....	1
1.1.1 Suitability.....	1
1.1.2 Execution point.....	1
1.1.3 Profiles.....	1
1.1.4 Deactivation.....	1
1.2 Input.....	2
1.2.1 Required properties.....	2
1.2.2 Other requirements.....	2
1.2.3 Dependencies.....	2
1.3 Output.....	2
1.3.1 Module reports.....	2
1.3.2 Global reports.....	2
1.4 Metrics.....	3
1.4.1 Overall.....	3
1.4.2 Module.....	3
1.5 Advanced.....	3
1.5.1 Register.....	3
1.5.2 Execute.....	3
1.5.3 Publish.....	3
1.5.4 Finalise.....	3

1 The Pylint plugin

1.0.1 Description

Pylint is a tool that analyzes Python source code looking for bugs and signs of poor quality. This plugin is responsible for scanning with pylint the python code included in each component in the build and reporting errors and warnings found. It looks for python code under the directory `${srcDir}/src/` where `${srcDir}` is specified by the property `src.location` or, alternatively, under the path specified by the property `python.src.location`, or alternatively, `pylint.src.location`. It generates a report (html) with the total number of warnings/errors found for each module/package with a link to the pylint log for that package. It updates the corresponding metrics in the `buildstatus.xml` file. If a report relative to a module is not readable, it is not included in the report nor it contributes to the metrics value.

1.0.2 Version

- pylint v. 0.21.4
- logilab-astng v. 0.20.4
- logilab-common v. 0.52.1

1.0.3 Homepage

<http://www.logilab.org/857> 

1.1 Activation

1.1.1 Suitability

Suitable for all modules which contain python code.

1.1.2 Execution point

The execution point defines during which command and which target the plugin will be executed.

COMMAND	BUILD
TARGET	pretest

1.1.3 Profiles

The profiles must be specified in the configuration in order to activate the plugin.

The plugin profile can be used to enable specific plugins.

The bundle profiles can be used to enable a set of plugins within a specific category.

PLUGIN PROFILES	pylint
BUNDLE PROFILES	

1.1.4 Deactivation

If this plugin has been activated for a larger set of modules (at project or subsystem level), it is possible to disable it for specific modules using special properties:

NAME	nopylint
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DESCRIPTION	To disable the pylint execution for the current module
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NAME	notest
DESCRIPTION	To disable all the plugins registered at TEST target (PRETEST, TEST, POSTTEST) for the current module

1.2 Input

1.2.1 Required properties

The required properties must be available in order for the plugin to run.

Some of the required properties may have default values which correctness must be check to ensure the correct execution of the plugin.

NAME	{python.src.location}
DESCRIPTION	Points to the path under which python code is looked for.
DEFAULT VALUE	\${src.location}/src
EXAMPLE	To have the plugin look for python code under \${src.location}/python, the property must be set as: \${src.location}/python

NAME	{pylint.src.location}
DESCRIPTION	Points to the path under which python code is looked for. Takes precedence over {python.src.location}.
DEFAULT VALUE	\${src.location}/src
EXAMPLE	To have the plugin look for python code under \${src.location}/python, the property must be set as: \${src.location}/python

1.2.2 Other requirements

NONE

1.2.3 Dependencies

- logilab-common
- logilab-astng

1.3 Output

1.3.1 Module reports

For each module, the output is generated in \${src.location}/reports/pylint The plugin generates \${moduleName}-\${configuration}/PYLINT-\${moduleName}.log.html containing the output of pylint execution.

1.3.2 Global reports

The plugin generates the overall html report index.html with number of warnings and errors found for every module and the corresponding metric value.

1.4 Metrics

1.4.1 Overall

NAME	Pylint
VALUE	0.8*errors + 0.2*warnings
UNIT	violations
TYPE	integer
LINKS	HTML: \${workspaceDir}/reports/pylint/index.html
VALUES	number of errors(high) and warnings(low)

NAME	Pylint rate
VALUE	Percentage of modules that have successfully run pylint
UNITS	Modules
TYPE	Percentage
LINKS	HTML: \${workspaceDir}/reports/pylint/index.html
VALUES	success: number of successful modules, failed: number of failed modules

1.4.2 Module

The module metrics are related to a single module and provide its plugin execution details.

NAME	Pylint
VALUE	0.8*errors + 0.2*warnings
UNIT	Violations
TYPE	integer
LINKS	HTML: \${workspaceDir}/reports/pylint/index.html
VALUES	number of errors(high) and warnings(low)

1.5 Advanced

1.5.1 Register

Verifies the existence of pylint. Registers the plugin

1.5.2 Execute

Verifies the existence of user defined properties and analyses python code with pylint.

1.5.3 Publish

Analyses the result of the scan. Feeds metrics into build-status.xml.

1.5.4 Finalise

Generates an overall report and overall metrics.

-- 23-Sep-2011

This topic: EMI > EticsPluginsPylint
 Topic revision: r5 - 2011-09-29 - FabioCapanniniExternal



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