

Python Tools

VF2F Meeting – February 6th, 2018 Catherine Lefèvre

Test Coverage

SonarQube is used for continuous inspection of code quality to perform automatic reviews with static analysis of code to detect bugs, code smells and security vulnerabilities

SonarPython capability is available in Eclipse and IntelliJ for developers (SonarLint) as well as throughout the development chain for automated code review with self-hosted SonarQube or on-line SonarCloud

- import Unit Tests Execution Reports
- import Coverage Results
- import a Pylint Report
- create your own Custom Rules

https://docs.sonarqube.org/display/PLUG/SonarPython



Python Package Index

Python Package Index (PyPi) is a repository of software for the Python programming language.

https://pypi.python.org/pypi

Package	Description
mypy 0.560	Optional static typing for Python
pyflakes 1.6.0	Passive checker for Python programs
Pep8 1.7.1	Python style guide checker

PTL's Requests:

- PyPi server for hosting python packages
- The release procedure for ONAP developed Pypi packages



Load Testing Framework



Locust is an open source Python-based user load testing tool.

This lightweight, distributed and scalable framework helps to find out how many concurrent users a system can handle by writing test scenarios in Python code. It can be used for web applications, websites and web-based services.

Locust is completely event based and uses the async approach, so it can support running thousands load tests on a single machine or distributed over multiple machines to simulate millions of concurrent users. Each locust runs inside it's own process (greenlet). Any number of test users will act independently with their own session data. When the tasks are defined, each Locust node can handle thousands of users in a single process. This framework even allows running in a distributed master/worker fashion with only a few configuration adjustment.

https://locust.io/

