Python type annotations

- In Python 3
- def get_transfertools(rse_id: str) -> "Set[str]":
 https://mypy.readthedocs.io/en/stable/cheat_sheet_py3.html
- In Python 2 (for clients/common code)
- def get_transfertools(rse_id):
 # type: (str) -> Set[str]

https://mypy.readthedocs.io/en/stable/cheat_sheet.html

Mypy static type checker

- Can be run on Python 3 to check Python 2 code
- Needs as many type hints as possible
- IDEs run similar type checking
 - PyCharm and mypy use official type hints https://github.com/python/typeshed
- Is a project under the official python organisation on GitHub: https://github.com/python/mypy
- Should be integrated in the CI and can be run locally
 - Would just need a pip install or your distro's mypy package
 - Create a tools/check_mypy.sh

http://mypy-lang.org/