

Add/Remove Python version in Apache Beam

Adding a Python version

1. Add a Beam Python container for the new python version.
 - a. <https://github.com/apache/beam/tree/master/sdks/python/container>
 2. Add a new Python version to different test-suites.
 - a. Tox test suites - [link](#)
 - b. All the required Gradle tasks such as pre-commits, post-commits etc.
 - c. Make sure all the runners support the new Python version.
 3. Add the Github actions suite for the new Python version.
 - a. https://github.com/apache/beam/blob/master/.github/workflows/python_tests.yml
 4. Add the support for building wheels for the new Python version.
 - a. https://github.com/apache/beam/blob/master/.github/workflows/build_wheels.yml
 5. Update the upper limit in `__init__.py` with the next major Python version.
 6. Update any code that needs changes for the new Python version.
- If there is a new feature update or there is a regression when adding a new Python version, please file an [issue](#).
 - **All the unit tests and integration tests must pass before merging the new version.**
 - If you are a non-committer, please ask the committers to run a seed job on your PR to test all the new changes.

Pull request for adding python 3.9 to Apache Beam: <https://github.com/apache/beam/pull/16008>

Removing a Python version

1. Bump the python version in [setup.py](#) and update the python version warning in `__init__.py`.
2. Delete the unsupported Python version containers from [sdks/python/container](#)
3. Remove the test-suites for the unsupported python version from
 - a. Remove unsupported py{version} from the following files/directories
 - i. `sdks/python/test-suites/gradle.properties`
 - ii. `apache_beam/testing/tox`
 - iii. `apache_beam/testing/dataflow`
 - iv. `apache_beam/testing/direct`
 - v. `apache_beam/testing/portable`
 - b. Remove the unsupported python version gradle tasks from
 - i. `beam/test-infra/{DSL_SCRIPT}.groovy`
 - ii. `build.gradle.kts`
 - iii. `settings.gradle.kts`
 - iv. `buildSrc/src/main/groovy/org/apache/beam/gradle/BeamModulePlugin.groovy`
 - c. Remove the support for building wheels and source distributions for the unsupported Python version from [.github/workflows/build_wheels.yml](#)
 - d. Remove the unsupported Python version from GitHub actions unit tests at [.github/workflows/python_tests.yml](#)
 - e. Remove the unsupported Python version from [sdks/python/tox.ini](#)
4. Clean up any code that applies to unsupported Python version[Optional]

Pull request for removing Python 3.6 support from Apache Beam: <https://github.com/apache/beam/pull/17252>