

Kubeflow PR workflow

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- Up to now, you
 - Know what the Kubeflow open source project is about
 - Identify the project/repo/area/code to contribute
 - Have the development environment set up
 - Git, Go tools and IDE
 - Have a cloud cluster to run tests
- And, most important, you should
 - Follow the Kubeflow [contributing guide](#) to
 - Sign the Contributor License Agreement ([CLA](#))
 - Join the community
- Move on to create Pull Request (PR)
 - *Pull requests let you tell others about changes you've pushed to a branch in a repository on GitHub. Once a pull request is opened, you can discuss and review the potential changes with collaborators and add follow-up commits before your changes are merged into the base branch. --- [About pull requests](#)*



- Pull requests are a collection of commits submitted to be merged into the main source repo
- Four step process
 - Find and claim an issue to work on
 - Write codes + tests
 - Submit the patch for review
 - PR is merged



- Work items in Kubeflow are tracked on Github using issues
 - Each repository in Kubeflow org tracks its own issues, e.g.
 - <https://github.com/kubeflow/kubeflow/issues>
 - <https://github.com/kubeflow/kfctl/issues>
- Helpful to attend the Kubeflow community meetings to stay up-to-date on areas to focus on
 - [Community call calendar](#)
 - [Mailing list](#)
 - [Slack workspace](#)
- Read description, look at tag, etc. to find good first issues to start with
 - E.g. issues labeled [good first issue](#), [help wanted](#).
- Open new issues





Find an Issue



kubeflow / kubeflow

Watch 393 Star 9k Fork 1.4k

Code Issues 213 Pull requests 22 Actions Projects Wiki Security Insights

Filters is:issue is:open

Labels 148

Milestones 1

New issue

213 Open 2,474 Closed

Author Label Projects Milestones Assignee Sort

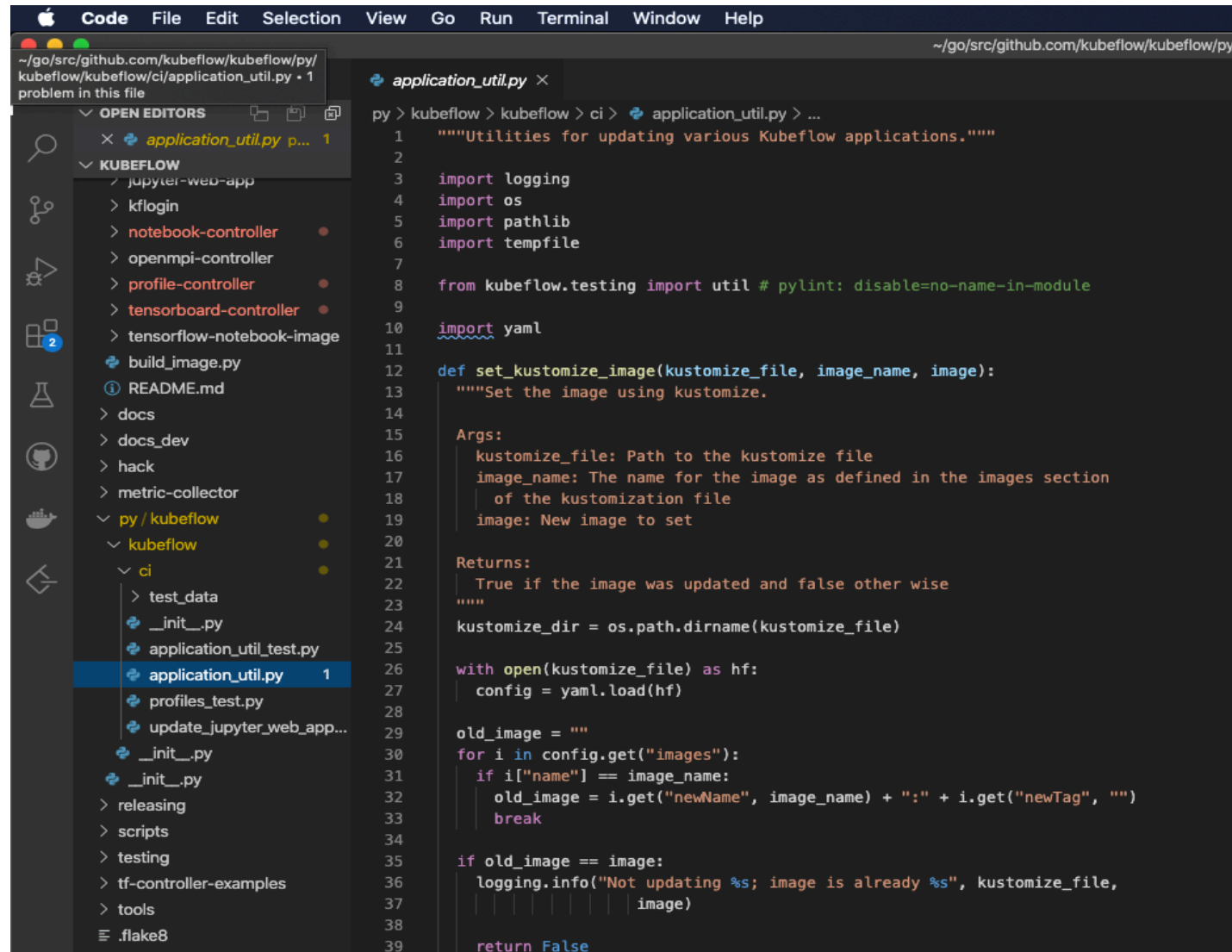
- Jupyter New Server Web UI should report warnings of FailedCreate** area/jupyter kind/feature 2
#5085 opened 3 days ago by yashjakhotiya
- Can't start pods successfully through kubeflow UI on local kubernetes cluster - PV provisioner not working** area/jupyter kind/bug priority/p0 priority/p2 4
#5082 opened 5 days ago by dwang55
- Does MiniKF run on anything?** kind/question platform/minikf priority/p2 12
#5081 opened 5 days ago by gitpushdashf
- Failed to install on EKS1.15 and EKS1.16 1.0.2 with cognito** area/kfctl kind/bug platform/aws priority/p2 3
#5079 opened 6 days ago by prabhatsharma
- How to expose the central dashboard with an external nginx.** area/centraldashboard area/front-end kind/question 3
#5078 opened 6 days ago by ducminhnguyen
- User login through Dex OIDC and gets "RBAC: access denied" web page several minutes after everything looks fine** kind/bug 10
#5077 opened 6 days ago by joey100
- service istiod not found error at "kfctl 1.0.2 with kfctl_k8s_istio.v1.0.2.yaml"** area/kfctl kind/bug platform/onprem 8
#5075 opened 7 days ago by insoo67park
- GPU use display by Notebook Servers** area/jupyter kind/feature 2
#5073 opened 8 days ago by lalithvaka
- kfctl_aws_cognito.v1.0.2.yaml couldn't copy istio-ingress and aws-istio-authz-adaptor** area/kfctl kind/bug platform/aws 4
#5072 opened 8 days ago by malawskim
- Many users - one namespace** area/centraldashboard area/front-end area/multiuser kind/question 7
#5071 opened 8 days ago by AldusLorde



- Fork and Clone
 - Always fork from the master repo
 - Clone
 - Instead of working on master branch, create and checkout a new branch for each issue
- Write codes with favorite IDEs, e.g.
 - [Visual studio code](#), good for Golang, Java, Python and more
 - [PyCharm](#), good for Python
 - Follow contribution guide, pay special attention to code style, conventions etc.
- Tests
 - Write test cases, debug and test
 - New test cases may need to be pushed to the repo as well
 - Follow contribution guide to run other tests before PR submission
 - Eg. `make test` is common for projects in golang



Write codes + tests



```
Code File Edit Selection View Go Run Terminal Window Help

~/go/src/github.com/kubeflow/kubeflow/py/
kubeflow/kubeflow/ci/application_util.py • 1
problem in this file

OPEN EDITORS
X application_util.py p... 1

KUBEFLOW
  jupyter-web-app
  kflogin
  notebook-controller
  openmpi-controller
  profile-controller
  tensorboard-controller
  tensorflow-notebook-image
  build_image.py
  README.md
  docs
  docs_dev
  hack
  metric-collector
  py / kubeflow
    kubeflow
      ci
        test_data
        _init_.py
        application_util_test.py
        application_util.py 1
        profiles_test.py
        update_jupyter_web_app...
        _init_.py
        _init_.py
      releasing
      scripts
      testing
      tf-controller-examples
      tools
      .flake8

application_util.py X
py > kubeflow > kubeflow > ci > application_util.py > ...
1  """Utilities for updating various Kubeflow applications."""
2
3  import logging
4  import os
5  import pathlib
6  import tempfile
7
8  from kubeflow.testing import util # pylint: disable=no-name-in-module
9
10 import yaml
11
12 def set_kustomize_image(kustomize_file, image_name, image):
13     """Set the image using kustomize.
14
15     Args:
16         kustomize_file: Path to the kustomize file
17         image_name: The name for the image as defined in the images section
18                     of the kustomization file
19         image: New image to set
20
21     Returns:
22         True if the image was updated and false other wise
23     """
24     kustomize_dir = os.path.dirname(kustomize_file)
25
26     with open(kustomize_file) as hf:
27         config = yaml.load(hf)
28
29     old_image = ""
30     for i in config.get("images"):
31         if i["name"] == image_name:
32             old_image = i.get("newName", image_name) + ":" + i.get("newTag", "")
33             break
34
35     if old_image == image:
36         logging.info("Not updating %s; image is already %s", kustomize_file,
37                     image)
38
39     return False
```



- Commit and push to forked repo
 - Create upstream remote and merge with the latest upstream/master
 - Commit (and sign off) the code changes
 - Push to forked repo
- Open PR against the master repo
 - Create pull request from browser navigating to the forked repo
 - E.g. <https://github.com/kubeflow/kfctl/compare/master...adrian555:update-README>
 - Refer the issue this PR fixes in the description, if the PR is fixing an issue
- Automated CI pipeline will run test suites against your submitted code
 - Unit tests
 - Integration tests
 - Code style & formatting



- Kubeflow members and contributors review the PR and comment
 - Code quality, Style changes, Functional changes, Correctness etc.
- Address comments
 - Respond to comments
 - Make necessary code changes then commit and push
 - Resolve branch conflict
- Two kinds of reviewers
 - Reviewers
 - Any member of Kubeflow org
 - Add **/lgtn** label once the reviewers approve
 - Approvers
 - Involved maintainers responsible for the code you're changing
 - Add **/approve** label once the approver accept



- Merge (automatically)
 - PR must be approved by at least one approver
 - Any branch conflict must be resolved by you
 - Pass all pre-submit test and other checks
 - Once merged, submitted commits will show up in commit history of the master repo
 - New features won't show up until a new release is cut

