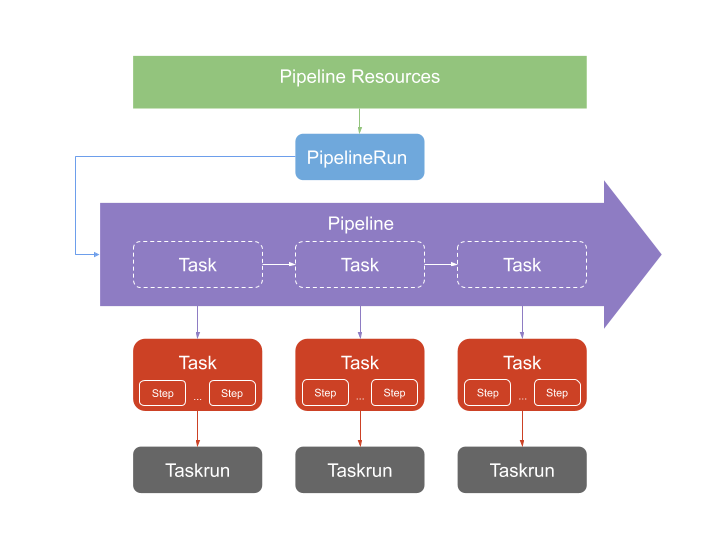
TEKTON

* Architecture

The below diagram shows the basic required component of a tekton pipeline.

For detail regarding these, check link: <https://tekton.dev/docs/getting-started/>



Optional component includes dashboard, CLI, catalog, eventlistener/trigger.

Scenarios tried till now:

1. Create webhook and eventlistener to automate pipelineRun
2. Clone Git repo
3. Use dockerfile to build
4. Upload to docker Hub
5. Modify deployment yaml to include latest image digest
6. Use deployment yaml to deploy application.
7. Try using multiple credentials in pipeline (using workspace).
8. Try multi-branch build.
9. Try deploying to a different cluster.

Scenario/features remaining to check:

1. Try staging deployment.
2. Check how to do integration testing / verify deployment is successful.
3. Try webhook with secret
4. Add check to delete namespace before deployment
5. Try when condition in Task
6. Check if multiple images can be used in a single task can be called inside single task.
7. Add check to trigger specific task based on some filter like branch name
8. Check versality of tekton dashboard (how user-friendly it is).
9. Check how to add test stage before build.
10. How to add cloudevent to notify success or failure.
11. Auto cleanup of pods deployed by pipeline.

Help Links:

Tekton doc: <https://tekton.dev/docs/getting-started/>

tekton yq help doc: <https://mikefarah.gitbook.io/yq/v/v4.x/upgrading-from-v3#updating-writing-documents>

github token: <https://docs.github.com/en/authentication/keeping-your-account-and-data-secure/creating-a-personal-access-token#creating-a-token>

tekton trigger and eventlistner: <https://github.com/tektoncd/triggers/tree/main/docs/getting-started>

tekton install: <https://github.com/tektoncd/dashboard>

<https://www.codegrepper.com/code-examples/shell/write+shell+script+to+check+whether+a+namespace+exists+in+kubernetes>

<https://medium.com/hiredscore-engineering/getting-started-with-tekton-pipelines-part-1-container-image-build-and-push-5de1f96b0515>