Your first action

Basic Template

# This is a basic workflow to help you get started with Actions

name: CI

# Controls when the workflow will run

on:

# Triggers the workflow on push or pull request events but only for the "main" branch

push:

branches: [ "main" ]

pull\_request:

branches: [ "main" ]

# Allows you to run this workflow manually from the Actions tab

workflow\_dispatch:

# A workflow run is made up of one or more jobs that can run sequentially or in parallel

jobs:

# This workflow contains a single job called "build"

build:

# The type of runner that the job will run on

runs-on: ubuntu-latest

# Steps represent a sequence of tasks that will be executed as part of the job

steps:

# Checks-out your repository under $GITHUB\_WORKSPACE, so your job can access it

- uses: actions/checkout@v3

# Runs a single command using the runners shell

- name: Run a one-line script

run: echo Hello, world!

- name: Print existing files

run: ls -a

# Runs a set of commands using the runners shell

- name: Run a multi-line script

run: |

echo Add other actions to build,

echo test, and deploy your project.

Workflow and Action Attributes

name:

* Used to name the workflow.
* Not required

on:

* The GitHub event that triggers the workflow (see list in the next page)
* Required
* The event can be activities within repo, schedules and webhooks.

Syntax:

on:

{even trigger}: [branch name]

jobs:

->Workflows must have at least one job

->Each job must have an identifier

runs-on:

->The type of machine needed to run the job - runner

->Options: A screenshot of a computer

Description automatically generated

branch\_protection\_rule

check\_run

check\_suite

create

delete

deployment

deployment\_status

discussion

discussion\_comment

fork

gollum

issue\_comment

issues

label

merge\_group

milestone

page\_build

project

project\_card

project\_column

public

pull\_request

pull\_request\_comment (use issue\_comment)

pull\_request\_review

pull\_request\_review\_comment

pull\_request\_target

push

registry\_package

release

repository\_dispatch

schedule

status

watch

workflow\_call

workflow\_dispatch

workflow\_run

steps:

->List of actions or commands

->Access to the file system

->Each step runs in its own process

uses:

->Identifies an action to use

->The “uses” attribute defines the Docker image that will run the Action.

->Defines the location of that action

Actions are bundles of code used to perform a specific task or operation, and essentially, actions are docker images.

run:

->Runs commands in the virtual environments’ shell

name:

->An optional identifies for the step

->can be paired with uses and runs.