YAML Terms for GitHub Actions

Workflow Syntax

Work flow triggers are events that cause a workflow to run:

- Events that occur in your workflow's repository
- Events that occur outside of GitHub and trigger a repository_dispatch event on GitHub
- Scheduled times
- Manual

name: The name of the GitHub Action

on: When or condition of when the workflow is triggered. There are different filters, branches, labels, that can be used to trigger the workflow.

jobs: A jobs runs in a runner environment as determined by runs-on

Course Notes

Workflow Components

Actions: Reusable tasks that perform specific jobs within a workflow

Workflows: Automated processes defined in your repository that coordinate one o more jobs, triggered by events or on a schedule

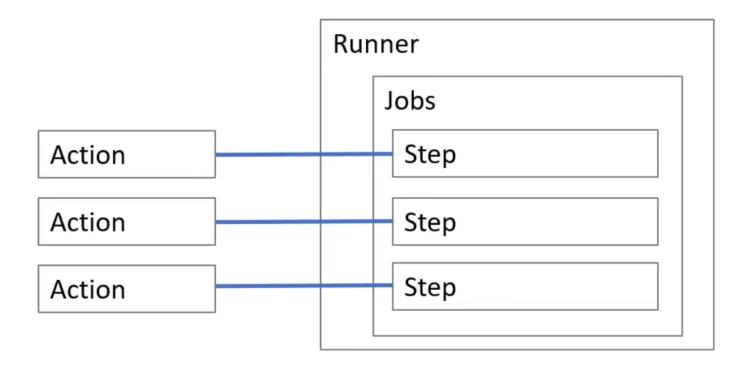
Jobs: Groups of steps that execute on the same runner, typically running in parallel unless configured otherwise

Steps: Individual tasks within a job that run commands or actions sequentially

Runs: Instances of workflow execution triggered by events, representing the complete run-through of a workflow

Runners: Servers that host the environment where the jobs are executed, available as GitHub-hosted or self-hosted options

Marketplace: A platform to find and share reusable actions



Scheduling Events

Schedule can us a **cron expression** to trigger a workflow at a specific time or day

For example: