



Using jobs in a workflow

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Use workflows to run multiple jobs.

Note: GitHub-hosted runners are not currently supported on GitHub Enterprise Server. You can see more information about planned future support on the <u>GitHub public roadmap</u>.

Overview @

A workflow run is made up of one or more jobs, which run in parallel by default. To run jobs sequentially, you can define dependencies on other jobs using the jobs. <job_id>.needs keyword.

Each job runs in a runner environment specified by runs-on.

You can run an unlimited number of jobs as long as you are within the workflow usage limits. For more information, see "<u>Usage limits, billing, and administration</u>" for GitHubhosted runners and "<u>About self-hosted runners</u>" for self-hosted runner usage limits.

If you need to find the unique identifier of a job running in a workflow run, you can use the GitHub Enterprise Server API. For more information, see "Actions."

Setting an ID for a job @

Use <code>jobs.<job_id></code> to give your job a unique identifier. The key <code>job_id</code> is a string and its value is a map of the job's configuration data. You must replace <code><job_id></code> with a string that is unique to the <code>jobs</code> object. The <code><job_id></code> must start with a letter or <code>_</code> and contain only alphanumeric characters, <code>-</code>, or <code>_</code>.

Example: Creating jobs

In this example, two jobs have been created, and their <code>job_id</code> values are <code>my_first_job</code> and <code>my_second_job</code>.

```
jobs:
my_first_job:
  name: My first job
my_second_job:
  name: My second job
```

Setting a name for a job &

Use jobs.<job id>.name to set a name for the job, which is displayed in the GitHub UI.

Defining prerequisite jobs &

Use <code>jobs.<job_id>.needs</code> to identify any jobs that must complete successfully before this job will run. It can be a string or array of strings. If a job fails or is skipped, all jobs that need it are skipped unless the jobs use a conditional expression that causes the job to continue. If a run contains a series of jobs that need each other, a failure or skip applies to all jobs in the dependency chain from the point of failure or skip onwards. If you would like a job to run even if a job it is dependent on did not succeed, use the <code>always()</code> conditional expression in <code>jobs.<job_id>.if</code>.

Example: Requiring successful dependent jobs \mathscr{O}

```
jobs:
  job1:
  job2:
   needs: job1
  job3:
   needs: [job1, job2]
```

In this example, job1 must complete successfully before job2 begins, and job3 waits for both job1 and job2 to complete.

The jobs in this example run sequentially:

- 1 job1
- 2 job2
- 3 job3

Example: Not requiring successful dependent jobs &

```
jobs:
 job1:
 job2:
  needs: job1
 job3:
  if: ${{ always() }}
  needs: [job1, job2]
```

In this example, job3 uses the always() conditional expression so that it always runs after job1 and job2 have completed, regardless of whether they were successful. For more information, see "Expressions."

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