GitHub Docs





This version of GitHub Enterprise was discontinued on 2023-03-15. No patch releases will be made, even for critical security issues. For better performance, improved security, and new features, <u>upgrade to the latest version of GitHub Enterprise</u>. For help with the upgrade, <u>contact GitHub Enterprise support</u>.

Using concurrency

Run a single job at a time.

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 &

Note: When concurrency is specified at the job level, order is not guaranteed for jobs or runs that queue within 5 minutes of each other.

You can use <code>jobs.<job_id>.concurrency</code> to ensure that only a single job or workflow using the same concurrency group will run at a time. A concurrency group can be any string or expression. Allowed expression contexts: <code>github</code>, <code>inputs</code>, <code>vars</code>, <code>needs</code>, <code>strategy</code>, and <code>matrix</code>. For more information about expressions, see "<code>Expressions</code>."

You can also specify concurrency at the workflow level. For more information, see concurrency.

When a concurrent job or workflow is queued, if another job or workflow using the same concurrency group in the repository is in progress, the queued job or workflow will be pending. Any previously pending job or workflow in the concurrency group will be canceled. To also cancel any currently running job or workflow in the same concurrency group, specify cancel-in-progress: true.

Examples: Using concurrency and the default behavior &

```
concurrency: staging_environment

concurrency: ci-${{ github.ref }}
```

Example: Using concurrency to cancel any in-progress job or run *∂*

```
concurrency:
  group: ${{ github.ref }}
  cancel-in-progress: true
```

Example: Using a fallback value $\mathscr P$

If you build the group name with a property that is only defined for specific events, you can use a fallback value. For example, <code>github.head_ref</code> is only defined on <code>pull_request</code> events. If your workflow responds to other events in addition to <code>pull_request</code> events, you will need to provide a fallback to avoid a syntax error. The following concurrency group cancels in-progress jobs or runs on <code>pull_request</code> events only; if <code>github.head_ref</code> is undefined, the concurrency group will fallback to the run ID, which is guaranteed to be both unique and defined for the run.

```
concurrency:
  group: ${{ github.head_ref || github.run_id }}
  cancel-in-progress: true
```

Example: Only cancel in-progress jobs or runs for the current workflow $\mathscr O$

If you have multiple workflows in the same repository, concurrency group names must be unique across workflows to avoid canceling in-progress jobs or runs from other workflows. Otherwise, any previously in-progress or pending job will be canceled, regardless of the workflow.

To only cancel in-progress runs of the same workflow, you can use the github.workflow
property to build the concurrency group:

```
concurrency:
  group: ${{ github.workflow }}-${{ github.ref }}
  cancel-in-progress: true
```

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