

# Enabling debug logging

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If the workflow logs do not provide enough detail to diagnose why a workflow, job, or step is not working as expected, you can enable additional debug logging.

**Note:** GitHub-hosted runners are not currently supported on GitHub Enterprise Server. You can see more information about planned future support on the [GitHub public roadmap](#).

These extra logs are enabled by setting secrets or variables in the repository containing the workflow, so the same permissions requirements will apply:

- To create secrets or variables on GitHub for a personal account repository, you must be the repository owner. To create secrets or variables on GitHub for an organization repository, you must have `admin` access. Lastly, to create secrets or variables for a personal account repository or an organization repository through the REST API, you must have collaborator access.
- To create secrets or variables for an environment in a personal account repository, you must be the repository owner. To create secrets or variables for an environment in an organization repository, you must have `admin` access. For more information on environments, see "[Using environments for deployment](#)."
- To create secrets or variables at the organization level, you must be an organization owner.

For more information on setting secrets and variables, see "[Using secrets in GitHub Actions](#)" and "[Variables](#)."

Additionally, anyone who has access to run a workflow can enable runner diagnostic logging and step debug logging for a workflow re-run. For more information, see "[Re-running workflows and jobs](#)."

## Enabling runner diagnostic logging

Runner diagnostic logging provides additional log files that contain information about how a runner is executing a job. Two extra log files are added to the log archive:

- The runner process log, which includes information about coordinating and setting up runners to execute jobs.
- The worker process log, which logs the execution of a job.

- 1 To enable runner diagnostic logging, set the following secret or variable in the repository that contains the workflow: `ACTIONS_RUNNER_DEBUG` to `true`. If both the secret and variable are set, the value of the secret takes precedence over the variable.

- 2 To download runner diagnostic logs, download the log archive of the workflow run. The runner diagnostic logs are contained in the `runner-diagnostic-logs` folder. For more information on downloading logs, see "[Using workflow run logs](#)."

## Enabling step debug logging

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Step debug logging increases the verbosity of a job's logs during and after a job's execution.

- 1 To enable step debug logging, set the following secret or variable in the repository that contains the workflow: `ACTIONS_STEP_DEBUG` to `true` . If both the secret and variable are set, the value of the secret takes precedence over the variable.
- 2 After setting the secret or variable, more debug events are shown in the step logs. For more information, see "[Using workflow run logs](#)."

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