Interpret the Effects of a Workflow

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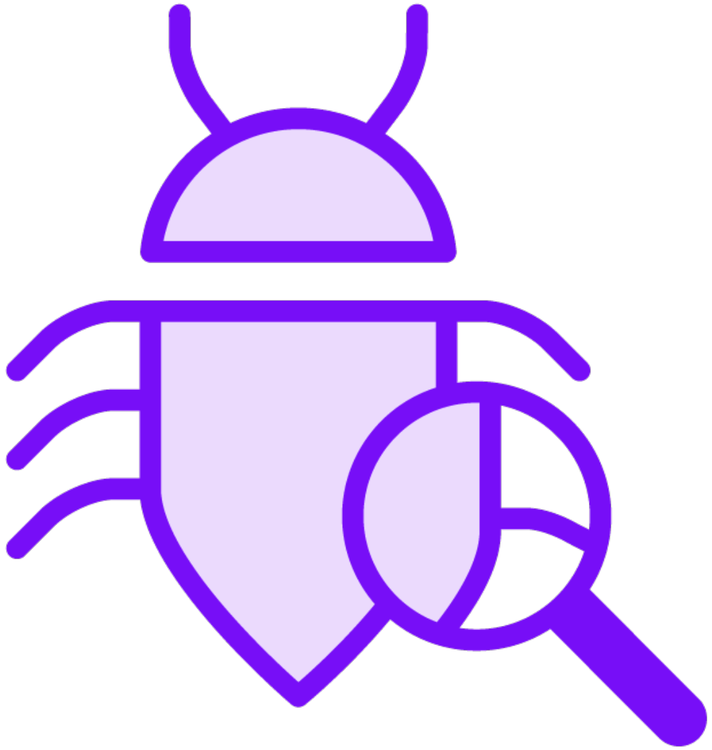

Review yaml code to understand intention

Debugging using workflow logs

Enable step debugging

Access logs using REST API

Trace messages to aid in debugging

Environment variables

- Default environment variables
- Custom environment variables

Describe a Workflow's Effects from Reading Its Configuration File

The “Desk Check”

Read and understand the code

Discover bugs before runtime

Need to understand GitHub Actions syntax

Several major areas in workflow to start

Default Environment Variables

Types of Variables

Default Environment Variables

Custom Environment Variables

Configuration Variables

Types of Variables

Default Environment Variables

Set by GitHub

Information about GitHub environment and Runners

Some OS specific

Default Environment Variable syntax

```
- name: Print Event (Runner Environment Variable)
  run: echo "Trigger event is $GITHUB_EVENT_NAME"

- name: Print Event (Context Variable)
  run: echo "Trigger event is ${{ github.event_name }}"
```

Processed directly on the runner

Processed by GitHub Actions and SENT to the runner

Default Environment Variable syntax

```
# example on Linux runner
- name: Print Event (Runner Environment Variable)
  run: echo "Trigger event is $GITHUB_EVENT_NAME"

# example on Windows runner
- name: Print Event (Runner Environment Variable)
  run: echo "Trigger event is $env:GITHUB_EVENT_NAME"
```

Default Environment Variable Syntax

Context Syntax

${{ github.event_name }}

When variable evaluated outside the runner

Conditional statements

Built-in GitHub functions

- contains(github.event.issue.labels.*.name, 'bug')

Runner Env Syntax

$GITHUB_EVENT_NAME

Evaluated on runner

Don’t require special escaping

Using variables in scripts or with tools

When default environment variable isn’t available as a context variable

Types of Variables

Default Environment Variables

Custom Environment Variables

Configuration Variables

Types of Variables

Custom Environment Variables

Configuration Variables

Types of Variables

Configuration Variables

Up Next:

Use Actions in a Workflow