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## **CERTIFICATION TEST**

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How should you print a debug message in your workflow?

- A. `echo "::debug::Set variable myVariable to true"`
- B. `echo "Set variable MyVariable to true" >> $DEBUG_MESSAGE`
- C. `echo "::add-mask::Set variable myVariable to true"`
- D. `echo "debug_message=Set variable myVariable to true" >> &GITHUB_OUTPUT`

**Suggested Answer:** A

Currently there are no comments in this discussion, be the first to comment!

As a developer, you are designing a workflow and need to communicate with the runner machine to set environment variables, output values used by other actions, add debug messages to the output logs, and other tasks. Which of the following options should you use?

- A. composite run step
- B. enable debug logging
- C. self-hosted runners
- D. environment variables
- E. workflow commands

**Suggested Answer:** *E*

Currently there are no comments in this discussion, be the first to comment!

When should you use the GITHUB\_TOKEN in a workflow?

- A. when you want to make authenticated calls to the GitHub API
- B. when you want to connect to the runner via SSH
- C. when you want to access repository-level secrets
- D. when you want to call an action from the marketplace

**Suggested Answer:** A

Currently there are no comments in this discussion, be the first to comment!

In which of the following scenarios should you use self-hosted runners? (Each correct answer presents a complete solution. Choose two.)

- A. when the workflow jobs must be run on Windows 10
- B. when jobs must run for longer than 6 hours
- C. when a workflow job needs to install software from the local network
- D. when GitHub Actions minutes must be used for the workflow runs
- E. when you want to use macOS runners

**Suggested Answer:** *BC*

Currently there are no comments in this discussion, be the first to comment!

As a developer, you need to leverage Redis in your workflow. What is the best way to use Redis on a self-hosted Linux runner without affecting future workflow runs?

- A. Install Redis on the hosted runner image and place it in a runner group. Specify label: in your job to target the runner group.
- B. Set up Redis on a separate machine and reference that instance from your job.
- C. Specify container: and services: in your job definition to leverage a Redis service container.
- D. Add a run step to your workflow, which dynamically installs and configures Redis as part of your job.

**Suggested Answer:** *C*

Currently there are no comments in this discussion, be the first to comment!

You installed specific software on a Linux self-hosted runner. You have users with workflows that need to be able to select the runner based on the identified custom software. Which steps should you perform to prepare the runner and your users to run these workflows? (Each correct answer presents part of the solution. Choose two.)

- A. Configure the webhook and network to enable GitHub to trigger workflow.
- B. Create the group custom-software-on-linux and move the runner into the group.
- C. Inform users to identify the runner with the labels custom-software and linux.
- D. Add the label linux to the runner.
- E. Inform users to identify the runner based on the group.
- F. Add the label custom-software to the runner.

**Suggested Answer:** *CF*

Currently there are no comments in this discussion, be the first to comment!

You need to trigger a workflow using the GitHub API for activity that happens outside of GitHub. Which workflow event do you use?

- A. workflow\_run
- B. deployment
- C. check\_suite
- D. repository\_dispatch

**Suggested Answer:** *D*

Currently there are no comments in this discussion, be the first to comment!



In which locations can actions be referenced by workflows? (Each correct answer presents a complete solution. Choose three.)

- A. an .action extension file in the repository
- B. a published Docker container image on Docker Hub
- C. a public NPM registry
- D. the runs-on: keyword of a workflow file
- E. the repository's Secrets settings page
- F. a separate public repository
- G. the same repository as the workflow

**Suggested Answer:** *BCF*

Currently there are no comments in this discussion, be the first to comment!

Scheduled workflows run on the:

- A. specified commit and branch from the workflow YAML file.
- B. latest commit from the branch named schedule.
- C. latest commit and branch on which the workflow was triggered.
- D. latest commit from the branch named main.
- E. latest commit on the default or base branch.

**Suggested Answer:** *E*

Currently there are no comments in this discussion, be the first to comment!

Custom environment variables can be defined at multiple levels within a workflow file including: (Each answer presents a complete solution. Choose three.)

- A. top level.
- B. step level.
- C. default level.
- D. runner level.
- E. job level.
- F. stage level.

**Suggested Answer:** *ABE*

Currently there are no comments in this discussion, be the first to comment!

You are a DevOps engineer working on deployment workflows. You need to execute the deploy job only if the current branch name is feature-branch. Which code snippet will help you to implement the conditional execution of the job?

- A. jobs:  
deploy:  
if: github.ref\_name == 'feature-branch'  
runs-on: ubuntu-latest  
steps:  
- uses: actions/checkout@v3
- B. jobs:  
deploy:  
if: github.branch.name == 'feature-branch'  
runs-on: ubuntu-latest  
steps:  
- uses: actions/checkout@v3
- C. jobs:  
deploy:  
if: github.ref.name == 'feature-branch'  
runs-on: ubuntu-latest  
steps:  
- uses: actions/checkout@v3
- D. jobs:  
deploy:  
if: github.branch\_name == 'feature-branch'  
runs-on: ubuntu-latest  
steps:  
- uses: actions/checkout@v3

**Suggested Answer:** A

Currently there are no comments in this discussion, be the first to comment!

What are the mandatory requirements for publishing GitHub Actions to the GitHub Marketplace? (Each correct answer presents part of the solution. Choose two.)

- A. The action can be either in a public or private repository.
- B. The action's metadata file must be in the root directory of the repository.
- C. The action's name cannot match a user or organization on GitHub unless the user or organization owner is publishing the action.
- D. The name should match with one of the existing GitHub Marketplace categories.
- E. Each repository can contain a collection of actions as long as they are under the same Marketplace category.

**Suggested Answer:** *BC*

Currently there are no comments in this discussion, be the first to comment!

Which of the following is the proper syntax to specify a custom environment variable named MY\_VARIABLE with the value my-value?

- A. var:  
MY\_VARIABLE = my-value
- B. environment:  
MY\_VARIABLE = my-value
- C. var:  
MY\_VARIABLE: my-value
- D. env:  
MY\_VARIABLE = my-value
- E. environment:  
MY\_VARIABLE: my-value
- F. env:  
MY\_VARIABLE: my-value

**Suggested Answer:** *F*

Currently there are no comments in this discussion, be the first to comment!

As a DevOps engineer, you need to define a deployment workflow that runs after the build workflow has successfully completed. Without modifying the build workflow, which trigger should you define in the deployment workflow?

- A. repository\_dispatch
- B. workflow\_dispatch
- C. workflow\_exec
- D. workflow\_run

**Suggested Answer:** *D*

Currently there are no comments in this discussion, be the first to comment!

Which step is using the dbserver environment variable correctly?

A. steps:

- name: Hello world

run: echo \$dbserver

variables:

dbserver: orgserver1

B. steps:

- name: Hello world

run: echo \$dbserver

env:

- name: dbserver

value: orgserver1

C. steps:

- name: Hello world

run: echo \$dbserver

environment:

dbserver: orgserver1

D. steps:

- name: Hello world

run: echo \$dbserver

env:

dbserver: orgserver1

**Suggested Answer:** *D*

Currently there are no comments in this discussion, be the first to comment!



In which scenarios could the GITHUB\_TOKEN be used? (Each correct answer presents a complete solution. Choose two.)

- A. to create a repository secret
- B. to add a member to an organization
- C. to read from the file system on the runner
- D. to publish to GitHub Packages
- E. to create issues in the repo
- F. to leverage a self-hosted runner

**Suggested Answer:** *DE*

Currently there are no comments in this discussion, be the first to comment!

As a developer, which of the following snippets will enable you to run the commands `npm ci` and `npm run build` as part of a workflow?

A. - run: |  
npm ci  
npm run build

B. - shell:  
npm ci  
npm run build

C. - run: |  
npm ci  
npm run build  
shell: nodejs

D. - run:  
npm ci  
npm run build

E.  
- shell: |  
npm ci  
npm run build

**Suggested Answer:** A

Currently there are no comments in this discussion, be the first to comment!

What is the smallest scope for an environment variable?

- A. the workflow settings
- B. the workflow env mapping
- C. a job
- D. a step

**Suggested Answer:** *D*

Currently there are no comments in this discussion, be the first to comment!

Which workflow event is used to manually trigger a workflow run?

- A. status
- B. workflow\_dispatch
- C. workflow\_run
- D. create

**Suggested Answer:** *B*

Currently there are no comments in this discussion, be the first to comment!

Where should workflow files be stored to be triggered by events in a repository?

- A. anywhere
- B. Nowhere; they must be attached to an action in the GitHub user interface.
- C. .github/workflows/
- D. .workflows/
- E. .github/actions/

**Suggested Answer:** *B*

Currently there are no comments in this discussion, be the first to comment!

Your organization is managing secrets using GitHub encrypted secrets, including a secret named SuperSecret. As a developer, you need to create a version of that secret that contains a different value for use in a workflow that is scoped to a specific repository named MyRepo. How should you store the secret to access your specific version within your workflow?

- A. Create MyRepo\_SuperSecret in GitHub encrypted secrets to specify the scope to MyRepo.
- B. Create a duplicate entry for SuperSecret in the encrypted secret store and specify MyRepo as the scope.
- C. Create a file with the SuperSecret information in the .github/secrets folder in MyRepo.
- D. Create and access SuperSecret from the secrets store in MyRepo.

**Suggested Answer:** *B*

Currently there are no comments in this discussion, be the first to comment!

As a developer, one of your workflows will require XCode version 11.2 hosted on macOS Catalina (i.e., v10.15). You've already created and configured a self-hosted runner to conform to those requirements and registered it with your organization. What else should you do to ensure that the workflow accesses the correct runner instance? (Each answer presents a complete solution. Choose three.)

- A. Add your runner to the appropriate runner groups.
- B. In the workflow, specify:  
runs-on: [ \${{groups.macos-10.15}}, \${{groups.xcode-11.2}} ].
- C. Create custom runner labels for macos-10.15 and xcode-11.2.
- D. Create runner groups named macos-10.15 and xcode-11.2.
- E. In the workflow, specify:  
runs-on: [self-hosted, macos-10.15, xcode-11.2].
- F. Assign the custom labels to the self-hosted runner.

**Suggested Answer:** *CEF*

Currently there are no comments in this discussion, be the first to comment!

Which default GitHub environment variable indicates the owner and repository name?

- A. GITHUB\_REPOSITORY
- B. GITHUB\_WORKFLOW\_REPO
- C. ENV\_REPOSITORY
- D. REPOSITORY\_NAME

**Suggested Answer:** A

Currently there are no comments in this discussion, be the first to comment!



You are a DevOps engineer in ABC Corp. You need to schedule your deployment workflow twice a week at 7:45 UTC every Wednesday and Saturday. What is the appropriate YAML structure?

A. on:

cron: '45 7 \* \* 3,6'

B. on:

cron:

- schedule: '45 7 \* \* 3,6'

C. on:

schedule:

- cron: '45 7 \* \* 3,6'

D. on:

schedule: '45 7 \* \* 3,6'

**Suggested Answer:** *C*

Currently there are no comments in this discussion, be the first to comment!

You need to create new workflows to deploy to an unfamiliar cloud provider. What is the fastest and safest way to begin?

- A. Create a custom action to wrap the cloud provider's CLI.
- B. Search GitHub Marketplace for verified actions published by the cloud provider.
- C. Use the actions/jenkins-plugin action to utilize an existing Jenkins plugin for the cloud provider.
- D. Search GitHub Marketplace for actions created by GitHub.
- E. Download the CLI for the cloud provider and review the associated documentation.

**Suggested Answer:** *B*

Currently there are no comments in this discussion, be the first to comment!

Which scopes are available to define custom environment variables within a workflow file? (Choose three.)

- A. the entire workflow, by using env at the top level of the workflow file
- B. all jobs being run on a single Actions runner, by using runner.env at the top of the workflow file
- C. the entire stage, by using env at the top of the defined build stage
- D. within the run attribute of a job step
- E. the contents of a job within a workflow, by using jobs.env
- F. a specific step within a job, by using jobs..steps[\*].env

**Suggested Answer:** *AEF*

Currently there are no comments in this discussion, be the first to comment!

Which of the following commands will set the \$FOO environment variable within a script, so that it may be used in subsequent workflow job steps?

- A. run: echo "::set-env name=FOO::bar"
- B. run: echo "FOO=bar" >> \$GITHUB\_ENV
- C. run: echo \${{ \$FOO=bar }}
- D. run: export FOO=bar

**Suggested Answer:** *B*

Currently there are no comments in this discussion, be the first to comment!

Which of the following scenarios requires a developer to explicitly use the GITHUB\_TOKEN or github.token secret within a workflow? (Choose two.)

- A. passing the GITHUB\_TOKEN secret to an action that requires a token as an input
- B. making an authenticated GitHub API request
- C. checking out source code with the actions/checkout@v3 action
- D. assigning non-default permissions to the GITHUB\_TOKEN

**Suggested Answer:** *AB*

Currently there are no comments in this discussion, be the first to comment!

By default, which workflows can use an action stored in internal repository? (Each answer presents a complete solution. Choose two.)

- A. selected public repositories outside of the enterprise
- B. internal repositories owned by the same organization as the enterprise
- C. public repositories owned by the same organization as the enterprise
- D. private repositories owned by an organization of the enterprise

**Suggested Answer:** *BD*

Currently there are no comments in this discussion, be the first to comment!

Which default environment variable specifies the branch or tag that triggered a workflow?

- A. GITHUB\_REF
- B. GITHUB\_BRANCH
- C. ENV\_BRANCH
- D. GITHUB\_TAG

**Suggested Answer:** A

Currently there are no comments in this discussion, be the first to comment!

As a developer, you need to add the correct syntax to allow the following workflow file to be triggered by multiple types of events. Which two code blocks should you add starting at line 5? (Each correct answer presents a complete solution. Choose two.)

```
4  name: Node CI/CD
5
6
7
8  jobs:
9    build:
10     runs-on:
11     steps:
12       - uses: actions/checkout@v2
13       - uses: actions/setup-node@v1
14         with:
15           node-version: 12
16       - run: npm ci
17       - run: npm test
18
```

A. on: [push, pull\_request]

B. on:

branches:

- 'main'

- 'dev'

C. on:

schedule:

- cron: '\* /15 \* \* \* \*

initiate:

- 'main'

D. on: [push, commit]

E. on:

push:

branches:

- main

release:

types:

- created

F. on:

env:

- 'prod'

- 'qa'

- 'test'

**Suggested Answer:** AC

Currently there are no comments in this discussion, be the first to comment!



You need to make a script to retrieve workflow run logs via the API. Which is the correct API to download a workflow run log?

- A. POST /repos/:owner/:repo/actions/runs/:run\_id/logs
- B. GET /repos/:owner/:repo/actions/runs/:run\_id/logs
- C. POST /repos/:owner/:repo/actions/runs/:run\_id
- D. GET /repos/:owner/:repo/actions/artifacts/logs

**Suggested Answer:** *B*

Currently there are no comments in this discussion, be the first to comment!

You are reaching your organization's storage limit for GitHub artifacts and packages. What should you do to prevent the storage limit from being reached? (Each correct answer presents a complete solution. Choose two.)

- A. Use self-hosted runners for all workflow runs.
- B. Delete artifacts from the repositories manually.
- C. Configure the artifact and log retention period.
- D. Disable branch protections in the repository.
- E. Configure the repo to use Git Large File Storage.

**Suggested Answer:** *CE*

Currently there are no comments in this discussion, be the first to comment!