

Microsoft

Exam Questions GH-200

GitHub Actions Exam



NEW QUESTION 1

You are a developer working on developing reusable workflows for your organization. What keyword should be included as part of the reusable workflow event triggers?

- A. check_run
- B. workflow_run
- C. workflow_call
- D. pull_request

Answer: C

NEW QUESTION 2

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
- B. GET /repos/:owner/:repo/actions/artifacts/logs
- C. GET /repos/:owner/:repo/actions/runs/:run_id/logs
- D. POST /repos/:owner/:repo/actions/runs/:run_id/logs

Answer: C

NEW QUESTION 3

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

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

Answer: A

NEW QUESTION 4

What will the output be for the following event trigger block in a workflow?

```
on:
  issues:
    types: [opened, edited]
  issue_comment:
    types:
      - created
```

- A. It throws a workflow syntax error, pointing to the types definition in issue_comment event.
- B. It throws a workflow syntax error, pointing to the types definition in issues event.
- C. It runs the workflow when an issue is edited or when an issue comment created.
- D. It runs the workflow when an issue or issue comment in the workflow's repository is created or modified.
- E. It runs the workflow when an issue is created or edited, or when an issue or pull request comment is created.

Answer: C

NEW QUESTION 5

When reviewing an action for use, what file defines its available inputs and outputs?

- A. inputs.yml
- B. config.json
- C. defaults.json
- D. workflow.yml
- E. action.yml

Answer: E

NEW QUESTION 6

What menu options in a repository do you need to select in order to use a starter workflow that is provided by your organization?

- A. Actions > Load workflow
- B. Workflow > New workflow

- C. Workflow > Load workflow
- D. Actions > New workflow

Answer: D

NEW QUESTION 7

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? (Choose two.)

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

Answer: AD

Explanation:

Deleting artifacts from repositories manually will free up storage space. Artifacts are typically stored for a limited time by default, but manual cleanup can help manage space.

Configuring the artifact and log retention period allows you to control how long artifacts and logs are retained in your repository. By shortening the retention period, you can prevent unnecessary accumulation of data and manage storage more effectively.

NEW QUESTION 8

Without the need to use additional infrastructure, what is the simplest and most maintainable method for configuring a workflow job to provide access to an empty PostgreSQL database?

- A. Use service containers with a Postgres database from Docker hub.
- B. Run the actions/postgres action in a parallel job.
- C. It is currently impossible to access the database with GitHub Actions.
- D. Dynamically provision and deprovision an environment.

Answer: A

Explanation:

GitHub Actions supports the use of service containers, which allows you to spin up a PostgreSQL database (or any other service) in a Docker container during your workflow. You can pull a PostgreSQL image from Docker Hub, and the container will automatically be available to your workflow job. This method requires no additional infrastructure and is easy to configure and maintain, as you simply define the container in the workflow file.

NEW QUESTION 9

Which run: command will set a step's output?

- A. run: echo "MY_OUTPUT=foo" >> \$GITHUB_OUTPUT
- B. run: export MY_OUTPUT=foo
- C. run: echo \${ \$GITHUB_OUTPUT=foo }
- D. run: echo "::set-env name=MY OUTPUT::foo"

Answer: A

NEW QUESTION 10

As a DevOps engineer, you are trying to leverage an organization secret in a repo. The value received in the workflow is not the same as that set in the secret. What is the most likely reason for the difference?

- A. There is a different value specified at the repo level.
- B. There is a different value specified at the workflow level.
- C. The Codespace secret doesn't match the expected value.
- D. The Encrypt Secret setting was not configured for the secret.
- E. There is a different value specified at the enterprise level.

Answer: A

NEW QUESTION 10

What are the two types of environment protection rules you can configure? (Choose two.)

- A. required reviewers
- B. branch protections
- C. wait timer
- D. artifact storage

Answer: AC

NEW QUESTION 12

You have exactly one Windows x64 self-hosted runner, and it is configured with custom tools. Which syntax could you use in the workflow to target that runner?

- A. self-hosted: [windows-x64]
- B. runs-on: [self-hosted, windows, x64]

- C. runs-on: windows-latest
- D. self-hosted: [windows, x64]

Answer: B

NEW QUESTION 14

What is the minimal syntax for declaring an output named foo for an action?

A)

```
outputs:
  foo:
    description: Some value
```

B)

```
outputs:
  - key: foo
    description: Some value
```

C)

```
outputs:
  foo:
    value: Some value
```

D)

```
outputs:
  - key: foo
    value: Some value
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: C

NEW QUESTION 17

How many jobs will result from the following matrix configuration?

```
strategy:
  matrix:
    color: [green, pink]
    animal: [owl, magpie]
  include:
    - color: blue
      animal: owl
    - color: pink
      animal: magpie
```

- A. 3 jobs
- B. 4 jobs
- C. 5 jobs

D. 6 jobs

Answer: D

Explanation:

The matrix configuration specifies two variables: color and animal. The color variable has 2 values (green and pink), and the animal variable has 2 values (owl and magpie). This would result in 4 combinations (2 color values ?? 2 animal values). Additionally, the include section introduces two more combinations (color: blue and animal: owl; color: pink and animal: magpie).

NEW QUESTION 21

What is the smallest scope for an environment variable?

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

Answer: B

Explanation:

The smallest scope for an environment variable is within a step . Environment variables defined within a step are only accessible to that particular step, which makes it the smallest scope for a variable in a GitHub Actions workflow.

NEW QUESTION 24

Which files are required for a Docker container action in addition to the source code? (Choose two.)

- A. Dockerfile
- B. Actionfile
- C. metadata.yml
- D. action.yml

Answer: AD

NEW QUESTION 28

Which syntax correctly accesses a job output (output1) of an upstream job (job1) from a dependent job within a workflow?

- A. `${{needs.job1.outputs.output1}}`
- B. `${{needs.job1.output1}}`
- C. `${{depends.job1.output1}}`
- D. `${{job1.outputs.output1}}`

Answer: A

NEW QUESTION 32

Disabling a workflow allows you to stop a workflow from being triggered without having to delete the file from the repo. In which scenarios would temporarily disabling a workflow be most useful? (Choose two.)

- A. A workflow sends requests to a service that is down.
- B. A workflow error produces too many, or wrong, requests, impacting external services negatively.
- C. A workflow is configured to run on self-hosted runners
- D. A workflow needs to be changed from running on a schedule to a manual trigger
- E. A runner needs to have diagnostic logging enabled.

Answer: AB

NEW QUESTION 33

As a developer, you are optimizing a GitHub workflow that uses and produces many different files. You need to determine when to use caching versus workflow artifacts. Which two statements are true? (Choose two.)

- A. Use caching when reusing files that change rarely between jobs or workflow runs.
- B. Use artifacts when referencing files produced by a job after a workflow has ended.
- C. Use caching to store cache entries for up to 30 days between accesses.
- D. Use artifacts to access the GitHub Package Registry and download a package for a workflow

Answer: AB

NEW QUESTION 34

Which of the following statements are true regarding the use of GitHub Actions on a GitHub Enterprise Server instance? (Choose three.)

- A. Use of GitHub Actions on GitHub Enterprise Server requires a persistent internet connection
- B. Actions created by GitHub are automatically available and cannot be disabled
- C. Most GitHub authored actions are automatically bundled for use on GitHub Enterprise Server
- D. Third party actions can be used on GitHub Enterprise Server by configuring GitHub Connect
- E. Actions must be defined in the .github repository
- F. Third party actions can be manually synchronized for use on GitHub Enterprise Server

Answer: ADF

NEW QUESTION 39

You are a developer, and your container jobs are failing on a self-hosted runner. Which requirements must you check to ensure that the self-hosted runner is properly configured? (Choose two.)

- A. The self-hosted runner is running a Linux operating system.
- B. The self-hosted runner is running a Windows operating system.
- C. Docker is installed on the self-hosted runner.
- D. Kubernetes is installed on the self-hosted runner.
- E. The service status of Kubernetes is "active".

Answer: AC

NEW QUESTION 40

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

Answer: B

Explanation:

Workflow commands are special commands that allow you to interact with the runner, set environment variables, output values, add debug messages, and perform other tasks within the workflow. These commands are used to modify the environment or influence the behavior of the GitHub Actions runner.

NEW QUESTION 43

In which locations can actions be referenced by workflows? (Choose three.)

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

Answer: ACD

NEW QUESTION 48

Which of the following is the best way for an enterprise to prevent certain marketplace actions from running?

- A. Create a list of the actions that are restricted from being used as an enterprise polic
- B. Every other action can be run.
- C. It is not possible; if an action is in the marketplace, its use cannot be restricted.
- D. Create a list that is maintained as a . yml file in a . github repository specified in the enterpris
- E. Only these actions can be run.
- F. Create a list of the actions that are allowed to run as an enterprise polic
- G. Only these actions can be run.

Answer: D

NEW QUESTION 52

Which workflow commands send information from the runner? (Choose two.)

- A. reading from environment variables
- B. setting a debug message
- C. populating variables in a Dockerfile
- D. setting output parameters

Answer: BD

NEW QUESTION 54

A development team has been using a Powershell script to compile and package their solution using existing tools on a Linux VM, which has been configured as a self-hosted runner. They would like to use the script as-is in an automated workflow. Which of the following should they do to invoke their script within a workflow step?

- A. Configure a self-hosted runner on Windows with the requested tools.
- B. Use the YAML powershell: step.
- C. Run the pwsh2bash command to convert the script so it can be run on Linux.
- D. Use the YAML shell: pwsh in a run step.
- E. Use the actions/run-powershell action to invoke the script.

Answer:

D

Explanation:

Since the self-hosted runner is configured on a Linux VM and the script is written in PowerShell, you can invoke the script using the pwsh (PowerShell Core) shell in a run step in the workflow. This ensures that the script runs as-is on the Linux runner, as PowerShell Core (pwsh) is cross-platform and supports Linux.

NEW QUESTION 57

Which choices represent best practices for publishing actions so that they can be consumed reliably? (Choose two.)

- A. repo name
- B. tag
- C. commit SHA
- D. organization name
- E. default branch

Answer: BC

NEW QUESTION 59

Based on the YAML below, which two statements are correct? (Choose two.)

```
jobs:
  build:
    runs-on: ubuntu-latest
    steps:
      - uses: actions/checkout@v2
      - uses: actions/setup-node@v1
        with:
          node-version: 12
      - run: npm ci
      - run: npm test

  publish-npm:
    needs: build
    runs-on: ubuntu-latest
    steps:
      - uses: actions/checkout@v2
      - uses: actions/setup-node@v1
        with:
          node-version: 12
      - run: npm ci
      - uses: JS-DevTools/npm-publish@v1
        with:
          token: ${ secrets.NPM_TOKEN }
```

- A. This workflow will publish a package to an npm registry.
- B. This workflow will publish a package to GitHub Packages.
- C. This workflow file is using a matrix strategy.
- D. The workflow job publish-npm will only run after the build job passes.

Answer: AD

NEW QUESTION 63

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

Answer: B

Explanation:

The \$GITHUB_ENV environment variable is used to set environment variables that persist across steps in a workflow job. By echoing FOO=bar into \$GITHUB_ENV, the variable FOO will be available in subsequent steps within the same job.

NEW QUESTION 64

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

- A. check_suite
- B. workflow_run
- C. deployment
- D. repository_dispatch

Answer: D

Explanation:

The repository_dispatch event allows you to trigger a workflow in response to external activity. It is commonly used when you need to trigger a workflow from outside GitHub, such as from another system or service, by sending a request to the GitHub API. This event provides flexibility to integrate with various external systems and trigger workflows in a GitHub repository.

NEW QUESTION 65

As a developer, how can you identify a Docker container action on GitHub?

- A. The action's repository includes @actions/core in the root directory.
- B. The action's repository name includes the keyword "Docker."
- C. The action.yml metadata file references a Dockerfile file.
- D. The action.yml metadata file has the runs.using value set to Docker.

Answer: D

NEW QUESTION 68

Your organization needs to simplify reusing and maintaining automation in your GitHub Enterprise Cloud. Which components can be directly reused across all repositories in an organization? (Choose three.)

- A. self-hosted runners
- B. actions stored in private repositories in the organization
- C. encrypted secrets
- D. custom Docker actions stored in GitHub Container Registry
- E. actions stored in an organizational partition in the GitHub Marketplace
- F. workflow templates

Answer: BCF

NEW QUESTION 72

Which workflow command would output the debug message "action successfully debugged"?

- A. echo :debug::message=action successfully debugged"
- B. echo "debug-action successfully debugged"
- C. echo "::debug::action successfully debugged"
- D. echo "::debug:action successfully debugged:"

Answer: C

NEW QUESTION 77

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

- A. GITHUB_TAG
- B. GITHUB_REF
- C. ENV_BRANCH
- D. GITHUB_BRANCH

Answer: B

NEW QUESTION 81

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