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Microsoft GH-200 Exam Syllabus Topics:

Topic	Details
Topic 1	• Manage GitHub Actions in the Enterprise: This section measures the expertise of Enterprise Administrators and Platform Engineers in distributing and managing GitHub Actions and workflows at the organizational level. It includes reuse and sharing of templates, strategies for managing reusable components via repositories and naming conventions, controlling access to actions, setting organization-wide usage policies, and planning maintenance to ensure efficient enterprise-wide deployment of GitHub Actions.
Topic 2	• Author and Maintain Workflows: This section of the exam measures skills of DevOps Engineers and Automation Specialists and covers building and managing workflows triggered by events such as pushes, scheduled times, manual triggers, and webhooks. It includes understanding workflow components like jobs, steps, actions, and runners, syntax correctness, environment variables, secrets management, and dependencies between jobs. Candidates will also demonstrate practical abilities to create workflows for various purposes, including publishing packages, using service containers, routing jobs, and deploying releases to cloud providers.
Topic 3	• Consume Workflows: This domain targets Software Developers and Quality Assurance Engineers and focuses on interpreting workflow runs and their outcomes. It covers identifying triggering events, reading workflow configurations, troubleshooting failures by analyzing logs, enabling debug logging, managing environment variables, caching dependencies, and passing data between jobs. Candidates also manage workflow runs, artifacts, approvals, and status badges, as well as locating workflows within repositories and leveraging organizational templated workflows.

Topic 4	• Author and Maintain Actions: This domain evaluates the abilities of Action Developers and Automation Engineers to select and create suitable types of GitHub Actions, such as JavaScript, Docker containers, or run steps. It emphasizes troubleshooting action code, understanding the components and file structures of actions, and using workflow commands within actions to communicate with runners, including exit code management.
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Microsoft GitHub Actions Sample Questions (Q16-Q21):

NEW QUESTION # 16

What are the two ways to pass data between jobs? (Each correct answer presents part of the solution. Choose two.)

- A. Use artifact storage.
- B. Use the copy action with cache parameter to cache the data.
- C. Use job outputs.
- D. Use data storage.
- E. Use the copy action to save the data that should be passed in the artifacts folder.
- F. Use the copy action with restore parameter to restore the data from the cache.

Answer: A,C

Explanation:

Passing information between jobs

[D] Store and share data with workflow artifacts

Use artifacts to share data between jobs in a workflow and store data once that workflow has completed.

[E] You can define outputs to pass information from one job to another.

Reference:

<https://docs.github.com/en/actions/tutorials/store-and-share-data>

<https://docs.github.com/en/actions/how-to/write-workflows/choose-what-workflows-do/pass-job-outputs>

NEW QUESTION # 17

You need to stop a GitHub Actions workflow from running. The solution must retain the configuration and execution history of the workflow. What should you do?

- A. Delete the workflow YAML file from the repository.
- B. Archive the workflow in a new branch.
- C. Rename the workflow YAML file.
- D. Select Actions and disable the workflow.

Answer: D

Explanation:

To stop a GitHub Actions workflow while keeping its configuration file and execution history, you should disable the workflow rather than deleting it. Disabling a workflow prevents it from being triggered by any event (like pushes or schedules) but leaves the YAML file in your repository and preserves all previous run data on the GitHub Actions tab.

How to Disable a Workflow

You can disable a workflow through the GitHub UI, the CLI, or by modifying the code itself.

Via GitHub Web Interface:

Go to your repository on GitHub.

Click the Actions tab.

In the left sidebar, select the specific workflow you want to stop.
Click the three dots (...) or the Enable/Disable dropdown menu and select Disable workflow.
Reference:
<https://docs.github.com/actions/managing-workflow-runs/disabling-and-enabling-a-workflow>

NEW QUESTION # 18

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

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

Answer: C

Explanation:

To access the outputs in the dependent job, use the `needs.<job_id>.outputs.<output_name>` syntax. For example, the following job accesses the `output1` and `output2` outputs defined in `job1`:

```
jobs:
# Assume job1 is defined as above
job2:
  runs-on: ubuntu-latest
  needs: job1
  steps:
  - env:
    OUTPUT1: ${{needs.job1.outputs.output1}}
    OUTPUT2: ${{needs.job1.outputs.output2}}
  run: echo "$OUTPUT1 $OUTPUT2"
```

Reference:

<https://docs.github.com/en/actions/how-to/write-workflows/choose-what-workflows-do/pass-job-outputs>

NEW QUESTION # 19

You need to create a reusable GitHub Actions workflow template named `ci.yml`. The solution must ensure that `ci.yml` appears on the New workflow interface of GitHub Actions. Where should you store `ci.yml`?

- A. `.github/workflow-templates`
- B. `.github/workflows`
- C. the root directory of each repository
- D. `.github/templates`

Answer: A

Explanation:

To ensure your reusable GitHub Actions workflow template appears in the New workflow interface (also known as the starter workflow picker), it must be stored in a specific directory within a special repository in your organization.

Required Storage Location

Repository Name: `.github` (This must be a public repository at the root of your organization).

Directory Path: `workflow-templates`.

Note:

Essential Files to Include

For the template to be correctly indexed and displayed in the interface, you must include two files in the `workflow-templates` directory:

The Workflow File: A standard YAML file (e.g., `ci-template.yml`) containing the workflow definition.

The Metadata File: A JSON file that must have the same name as the workflow file but with a `.properties.json` extension (e.g., `ci-template.properties.json`).

Reference:

<https://docs.github.com/en/enterprise-server@3.19/actions/using-workflows/creating-starter-workflows-for-your-organization>

NEW QUESTION # 20

What is a valid scenario regarding environment secrets?

- A. Ensuring a job cannot access environment secrets until approval is obtained from a required reviewer.
- B. Ensuring only a specific step can access an environment secret.
- C. Configuring environment secrets to automatically pull from Azure Key Vault.
- D. Configuring environment secrets for connecting to GitHub Enterprise Server.

Answer: A

Explanation:

Environment secrets are scoped to GitHub Actions environments and can be protected by environment protection rules. If an environment requires reviewers, a job that references that environment cannot access its environment secrets until the required approval is granted. This makes option A correct. Option B is incorrect because environment secrets are made available to jobs that reference the protected environment, not selectively to only one specific step by default. Option C is not the purpose of environment secrets; they are not specifically for connecting to GitHub Enterprise Server. Option D is also incorrect because GitHub environment secrets do not automatically pull from Azure Key Vault without additional integration or custom workflow logic. This topic covers environment protection, secrets, and deployment governance.

NEW QUESTION # 21

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