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Microsoft GH-200 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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 2	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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 4	<ul style="list-style-type: none"> • 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 (Q15-Q20):

NEW QUESTION # 15

A workflow that had been working now stalls in a waiting state until failing. The workflow file process-ml.yaml has not changed and contains jobs specifying runs-on: [gpu]. Which of the following steps would troubleshoot the issue? (Each answer presents a complete solution.)

Choose two.)

- A. Increase the usage limits for the GitHub-hosted runners.
- B. **Review the contents of the Runner *.log files in the _diag folder.**
- C. Check the "Set up job" step for the logs of the last successful run to determine the runner.
- D. **Update the org settings to enable GPU-based GitHub-hosted runners.**
- E. Rotate the GITHUB_TOKEN secret for the appropriate runners.

Answer: B,D

Explanation:

Monitoring and troubleshooting self-hosted runners

You can monitor your self-hosted runners to view their activity and diagnose common issues.

[A] Reviewing the self-hosted runner application log files

You can monitor the status of the self-hosted runner application and its activities. Log files are kept in the _diag directory where you installed the runner application, and a new log is generated each time the application is started. The filename begins with Runner_, and is followed by a UTC timestamp of when the application was started.

[D] You can choose one of the standard GitHub-hosted runner options or, if you are on the GitHub Team or GitHub Enterprise Cloud plan, you can provision a runner with more cores, or a runner that's powered by a GPU processor. These machines are referred to as "larger runner." Reference:

<https://docs.github.com/en/actions/how-tos/manage-runners/self-hosted-runners/monitor-and-troubleshoot>

<https://docs.github.com/en/actions/concepts/runners/github-hosted-runners>

NEW QUESTION # 16

Which GitHub Actions capability prevents secrets from appearing in workflow logs?

- A. Manual approval for secret log output
- B. Encrypted secrets written to logs
- C. GitHub Audit Log
- D. **Default secret masking in logs**

Answer: D

Explanation:

GitHub Actions automatically redacts secret values from workflow logs so if a command prints a secret the value is masked in the output. This built in protection helps prevent accidental exposure of credentials during job execution and it applies without additional configuration.

NEW QUESTION # 17

When creating and managing custom actions in an enterprise setting, which of the following is considered a best practice?

- A. creating a separate repository for each action so that the version can be managed independently
- B. creating a single repository for all custom actions so that the versions for each action are all the same
- C. including custom actions that other teams need to reference in the same repository as application code
- D. creating a separate branch in application repositories that only contains the actions

Answer: A

Explanation:

Managing custom actions

Choosing a location for your action

If you're developing an action for other people to use, we recommend keeping the action in its own repository instead of bundling it with other application code. This allows you to version, track, and release the action just like any other software.

Creating a separate repository for each custom action allows you to manage the versioning independently for each action. This approach provides flexibility, as each action can be updated, tested, and versioned separately, avoiding potential conflicts or dependencies between different actions.

Reference:

<https://docs.github.com/en/actions/how-tos/create-and-publish-actions/manage-custom-actions>

NEW QUESTION # 18

As a developer, your Actions workflow often reuses the same outputs or downloaded dependencies from one run to another. To cache dependencies for a job, you are using the GitHub cache action. Which input parameters are required for this action? (Each correct answer presents part of the solution. Choose two.)

- A. path: the file path on the runner to cache or restore
- B. dependency: the name and version of a package to cache or restore
- C. ref: the ref name of the branch to access and restore a cache created
- D. cache-hit: the copy action key used with restore parameter to restore the data from the cache
- E. key: the key created when saving a cache and the key used to search for a cache
- F. restore-keys: the copy action key used with cache parameter to cache the data

Answer: A,E

Explanation:

Input parameters for the cache action

[C] key: Required The key created when saving a cache and the key used to search for a cache.

It can be any combination of variables, context values, static strings, and functions. Keys have a maximum length of 512 characters, and keys longer than the maximum length will cause the action to fail.

[A] path: Required The path(s) on the runner to cache or restore.

Reference:

<https://docs.github.com/en/actions/reference/workflows-and-actions/dependency-caching>

NEW QUESTION # 19

In the following workflow file, line 5 interprets lines 3 and 4 as Python. Which of the following is a valid option to complete line 5?

1 steps:

2 - run: |

3 import os

4 print(os.environ['PATH'])

- A. shell: bash
- B. with: python
- C. shell: python
- D. working-directory: .github/python

Answer: C

Explanation:

Workflow syntax for GitHub Actions

Example

steps:

- name: Disp

shell:

run: |

```
import os
```

```
print(os.environ['PATH'])
```

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