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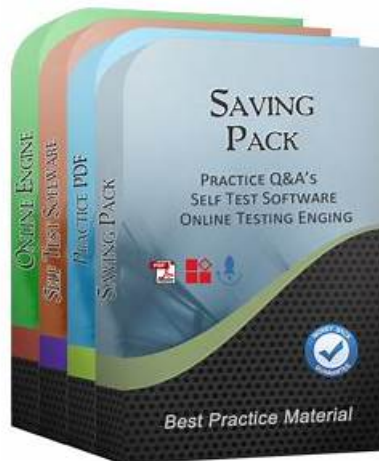
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Microsoft GH-200 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
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	• 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.

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Microsoft GitHub Actions Sample Questions (Q54-Q59):

NEW QUESTION # 54
How should you print a debug message in your workflow?

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

Answer: A

Explanation:
Example: Setting a debug message
echo "::debug::Set the Octocat variable"
Reference:
https://docs.github.com/en/actions/reference/workflows-and-actions/workflow-commands

NEW QUESTION # 55
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. Update the org settings to enable GPU-based GitHub-hosted runners.
- C. Review the contents of the Runner_*.log files in the _diag folder.
- D. Check the "Set up job" step for the logs of the last successful run to determine the runner.
- E. Rotate the GITHUB_TOKEN secret for the appropriate runners.

Answer: B,C

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 # 56

How should you install the bats NPM package in your workflow?

- A.

- B.

- C.

- D.

Answer: B

Explanation:
The correct syntax includes specifying the job (example-job), the runner (ubuntu-latest), and the necessary step (npm install -g bats) within the workflow. This ensures that the package is installed properly during the execution of the job.

NEW QUESTION # 57

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. workflow_run
- B. workflow_exec
- C. workflow_dispatch
- D. repository_dispatch

Answer: A

Explanation:
A deployment workflow can be started after a build workflow has finished by using the workflow_run event in the deployment workflow's on trigger. You must specify the name of the build workflow you want to trigger on and use an if condition to ensure the deployment workflow only runs if the build workflow successfully completes.
Here's how to set it up:
In your deployment workflow file: (e.g., deploy.yml), define the on: trigger.
Use the workflow_run event: within the on: trigger.
Specify the build workflow: by its name.
Add a conditional if statement: to the workflow to check the conclusion of the workflow_run event, ensuring it equals 'success'.

Reference:

https://docs.github.com/actions/learn-github-actions/events-that-trigger-workflows

NEW QUESTION # 58

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

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

Answer: C

Explanation:

A custom GitHub Action's inputs, outputs, and other configurations are defined in its metadata file, which must be named action.yml or action.yaml and placed at the root of the action's repository. This YAML file specifies how the action runs (e.g., using Docker or JavaScript) and provides the metadata for its inputs and outputs, which are then used by workflows that call the action.

Key aspects of the action.yml or action.yaml file

Format: It uses YAML syntax.

Location: It must be in the root directory of your action's repository.

Contents: It defines the action's name, description, inputs, outputs, and the runs configuration to specify the execution environment (like a Docker image or JavaScript file) and entrypoint.

Inputs and Outputs: The file includes inputs and outputs sections to declare the data the action accepts and produces, respectively.

Reference:

https://docs.github.com/en/actions/reference/workflows-and-actions/metadata-syntax

NEW QUESTION # 59

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