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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	• 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 3	• 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 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 (Q36-Q41):

NEW QUESTION # 36
What are the most significant advantages of adding documentation while distributing custom actions? (Each answer presents a complete solution. Choose two.)

- A. It generates auto completion when using the action in a workflow.
- B. It provides an example of the action.
- C. It shares the description of the action to the users.
- D. It creates a readme.md for the consuming workflow.

Answer: C,D

NEW QUESTION # 37
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.

Answer: C

Explanation:
Creating Redis service containers
You can use service containers to create a Redis client in your workflow. You can create a Redis service for jobs that run in containers or directly on the runner machine.
Configuring the runner job
The example uses the ubuntu-latest GitHub-hosted runner as the Docker host.
The workflow configures a service container with the label redis.
jobs:
Label of the runner job

runner-job:
You must use a Linux environment when using service containers or container jobs runs-on: ubuntu-latest
Service containers to run with `runner-job`
services:
Label used to access the service container
redis:
Docker Hub image
image: redis
Set health checks to wait until redis has started
options: >-
--health-cmd "redis-cli ping"
--health-interval 10s
--health-timeout 5s
--health-retries 5
ports:
Maps port 6379 on service container to the host
- 6379:6379
Reference:
https://docs.github.com/en/actions/tutorials/use-containerized-services/create-redis-service- containers

NEW QUESTION # 38

Which configuration lines correctly set the workflow name in a GitHub Actions workflow file?
(Choose 2)

- A. name: release-flow-42
- B. run-name: release-flow-42
- C. name: ${{ "release-flow-42" }}
- D. name: ${{ 'release-flow-42' }}

Answer: A,D

Explanation:
The correct options are name: release-flow-42 and name: ${{ 'release-flow-42' }}. Both set the workflow name that appears in the Actions interface and on the workflow page.
The plain static name key with a simple string sets the workflow name clearly and predictably. It is the most straightforward way to define the workflow title.
The expression form with a single quoted string evaluates to the same literal value. GitHub Actions accepts a string result for the workflow name, so this produces a valid name while keeping consistency with other places where expressions are used.

NEW QUESTION # 39

While awaiting approval, how many days can a workflow be in the "Waiting" state before it automatically fails?

- A. 7 days
- B. 30 days
- C. 14 days
- D. 60 days

Answer: B

Explanation:
Using required reviews in workflows
Jobs that reference an environment configured with required reviewers will wait for an approval before starting. While a job is awaiting approval, it has a status of "Waiting". If a job is not approved within 30 days, it will automatically fail.
Reference:
https://docs.github.com/en/actions/how-tos/deploy/configure-and-manage-deployments/control- deployments

NEW QUESTION # 40

What are the advantages of using a matrix strategy in a job definition? (Choose two.)

- A. It can test code in multiple operating systems.
- B. It can run up to 512 jobs per workflow run.
- C. It can test code in multiple versions of a programming language.
- D. It can decrease the costs for running multiple combinations of programming language/operating systems.

Answer: A,C

Explanation:
A matrix strategy allows you to define different versions of a programming language (or any other environment setting) and run tests on each version simultaneously. This is particularly useful for testing code compatibility across different versions of a language.
A matrix strategy can also be used to test code on multiple operating systems (e.g., Windows, macOS, Linux) by defining these operating systems as matrix variables. This enables cross-platform testing within the same workflow.

NEW QUESTION # 41

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