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## GH-200 Latest Exam Answers - New GH-200 Test Syllabus

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### Microsoft GH-200 Exam Syllabus Topics:

| Topic   | Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 1 | <ul style="list-style-type: none"><li>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.</li></ul> |
| Topic 2 | <ul style="list-style-type: none"><li>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.</li></ul>                                                    |

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|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Topic 3 | <ul style="list-style-type: none"> <li>• 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.</li> </ul> |
| Topic 4 | <ul style="list-style-type: none"> <li>• 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.</li> </ul>                                                                                                                                                                                                                 |

## Microsoft GitHub Actions Sample Questions (Q12-Q17):

### NEW QUESTION # 12

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

**Answer: A**

Explanation:

The best way for an enterprise to control which GitHub Actions run is by creating a list of approved actions as an enterprise policy. This approach restricts workflows to only use the actions that are explicitly allowed, ensuring security and compliance within the organization.

Note: To allow a specific list of actions at the GitHub Enterprise level, an administrator must navigate to Enterprise > Policies > Actions and select "Allow select actions". Then, from the dropdown menus, they choose "Allow selected actions and reusable workflows" and add the desired actions to the allowed list using the format OWNER/REPOSITORY@TAG-OR-SHA.

These actions can also include local actions, actions from specific organizations, or specific tags or commit SHAs.

Reference:

<https://docs.github.com/en/enterprise-cloud@latest/admin/enforcing-policies/enforcing-policies-for-your-enterprise/enforcing-policies-for-github-actions-in-your-enterprise>

### NEW QUESTION # 13

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. Specify container: and services: in your job definition to leverage a Redis service container.
- C. Set up Redis on a separate machine and reference that instance from your job.
- D. Add a run step to your workflow, which dynamically installs and configures Redis as part of your job.

**Answer: B**

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 # 14

You are a DevOps engineer working on custom Actions development. You need to handle the errors or exceptions as part of the JavaScript based action code. What should be added to the following code block to handle errors?

```
const core = require('@actions/core');
try {
// action code
} catch (error) {
<< insert snippet here >>
}
```

- A. `action.setError(error.message);`
- B. `core.setException(error.message);`
- C. `core.setFailed(error.message);`
- D. `core.action.setException(error.message);`

**Answer: C**

Explanation:

Setting a failure exit code in a JavaScript action

If you are creating a JavaScript action, you can use the actions toolkit `@actions/core` package to log a message and set a failure exit code. For example:

```
try {
// something
} catch (error) {
core.setFailed(error.message);
}
```

Reference:

<https://docs.github.com/en/actions/how-to/create-and-publish-actions/set-exit-codes>

#### NEW QUESTION # 15

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**

Explanation:

The `::debug::` syntax is used to output debug messages in GitHub Actions workflows. This command will print the message "action successfully debugged" in the debug logs when the workflow runs.

### NEW QUESTION # 16

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

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

**Answer: B**

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-to-pass-job-outputs>

### NEW QUESTION # 17

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