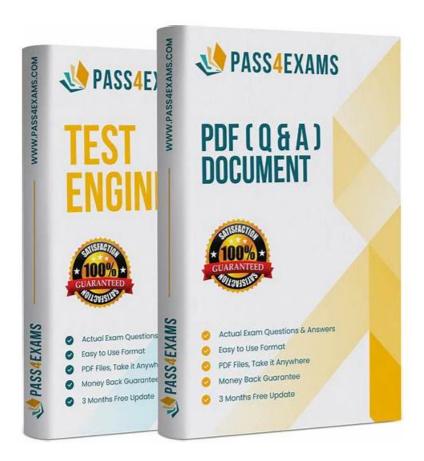
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# **Microsoft GH-200 Exam Syllabus Topics:**

	Details
Topic 1	<ul> <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>
Topic 2	<ul> <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 3	<ul> <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	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 (Q53-Q58):

#### **NEW QUESTION #53**

How can a workflow deploy mitigate the risk of multiple workflow runs that are deploying to a single cloud environment simultaneously? (Each correct answer presents part of the solution. Choose two.)

- A. Set the concurrency in the deployment job to 1.
- B. Pass the mutex into the deployment job.
- C. Configure the mutex setting in the environment.
- D. Reference the mutex in the task performing the deployment.
- E. Specify a concurrency scope in the workflow.
- F. Specify a target environment in the deploymentjob.

#### Answer: E,F

#### Explanation:

[D] GitHub Actions now supports a concurrency key at both the workflow and job level that will ensure that only a single run or job is in progress.

#### concurrency

Use concurrency to ensure that only a single job or workflow using the same concurrency group will run at a time.

Example: Using concurrency and the default behavior

The default behavior of GitHub Actions is to allow multiple jobs or workflow runs to run concurrently. The concurrency keyword allows you to control the concurrency of workflow runs.

#### Reference:

https://github.blog/changelog/2021-04-19-github-actions-limit-workflow-run-or-job-concurrency/https://docs.github.com/en/actions/reference/workflows-and-actions/workflow-syntax#concurrency/https://github.com/marketplace/actions/actions-mutex

#### **NEW QUESTION #54**

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

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

#### Answer: A,B

#### 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 #55**

Which scopes are available to define custom environment variables within a workflow file? (Choose three.)

- A. the entire stage, by using env at the top of the defined build stage
- B. the contents of a job within a workflow, by using jobs.<job id>.env
- C. all jobs being run on a single Actions runner, by using runner.env at the top of the workflow file
- D. within the run attribute of a job step
- E. a specific step within a job, by using jobs.<job id>.steps[\*].env
- F. the entire workflow, by using env at the top level of the workflow file

#### Answer: D,E,F

#### Explanation:

You can define environment variables for the entire workflow by using the env key at the top level of the workflow file. These environment variables will be available to all jobs and steps within the workflow.

Environment variables can also be set within the run attribute of a job step, and these variables will be scoped only to that specific step.

You can set environment variables for specific steps within a job by using jobs. <job\_id>.steps[\*].env, which allows you to define variables that will only be available to that step.

### **NEW QUESTION # 56**

As a developer, which workflow steps should you perform to publish an image to the GitHub Container Registry? (Choose three.)

- A. Push the image to the GitHub Container Registry
- B. Use the actions/setup-docker action
- C. Authenticate to the GitHub Container Registry.
- D. Build the container image.
- E. Pull the image from the GitHub Container Registry.

#### Answer: A,B,C

## Explanation:

- A. Use the actions/setup-docker action
- B. Authenticate to the GitHub Container Registry.
- C. Build the container image.
- D. Push the image to the GitHub Container Registry
- E. Pull the image from the GitHub Container Registry.

#### **NEW QUESTION #57**

Your organization is managing secrets using GitHub encrypted secrets, including a secret named SuperSecret. As a developer, you need to create a version of that secret that contains a different value for use in a workflow that is scoped to a specific repository named MyRepo. How should you store the secret to access your specific version within your workflow?

- A. Create MyRepo\_SuperSecret in GitHub encrypted secrets to specify the scope to MyRepo.
- B. Create and access SuperSecret from the secrets store in MyRepo.

- C. Create a file with the SuperSecret information in the .github/secrets folder in MyRepo.
- D. Create a duplicate entry for SuperSecret in the encrypted secret store and specify MyRepo as the scope.

Answer: D

<b>NEW QUESTION # 58</b>	<b>NEW</b>	OUI	ESTI	ON	#	58
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