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Microsoft GH-200 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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.

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 (Q41-Q46):

NEW QUESTION # 41

Which command can you include in your workflow file to set the output parameter for an action?

- A. `echo "action_color=purple" >> $GITHUB_ENV`
- **B. `echo "action_color=purple" >> $GITHUB_OUTPUT`**
- C. `echo "::add-mask::$ACTION_COLOR"`
- D. `echo "::debug:action_color=purple"`

Answer: B

Explanation:

Setting an output parameter

Sets a step's output parameter. Note that the step will need an id to be defined to later retrieve the output value. You can set multi-line output values with the same technique used in the Multiline strings section to define multi-line environment variables.

```
echo "{name}={value}" >> "$GITHUB_OUTPUT"
```

Example of setting an output parameter

This example demonstrates how to set the `SELECTED_COLOR` output parameter and later retrieve it:

- name: Set color

id: color-selector

```
run: echo "SELECTED_COLOR=green" >> "$GITHUB_OUTPUT"
```

- name: Get color

env:

```
SELECTED_COLOR: ${{ steps.color-selector.outputs.SELECTED_COLOR }}
```

```
run: echo "The selected color is $SELECTED_COLOR"
```

Reference:

<https://docs.github.com/en/actions/reference/workflows-and-actions/workflow-commands>

NEW QUESTION # 42

Disabling a workflow allows you to stop a workflow from being triggered without having to delete the file from the repo. In which scenarios would temporarily disabling a workflow be most useful?

(Each correct answer presents a complete solution. Choose two.)

- A. A runner needs to have diagnostic logging enabled.
- **B. A workflow sends requests to a service that is down.**
- **C. A workflow error produces too many, or wrong, requests, impacting external services negatively.**
- D. A workflow needs to be changed from running on a schedule to a manual trigger.
- E. A workflow is configured to run on self-hosted runners.

Answer: B,C

Explanation:

Temporarily disabling a workflow can be useful in many scenarios. These are a few examples where disabling a workflow might be helpful:

[B] A workflow error that produces too many or wrong requests, impacting external services negatively.

A workflow that is not critical and is consuming too many minutes on your account.

[D] A workflow that sends requests to a service that is down.

Workflows on a forked repository that aren't needed (for example, scheduled workflows).

Reference:

<https://docs.github.com/en/actions/how-tos/manage-workflow-runs/disable-and-enable-workflows>

NEW QUESTION # 43

Which of the following statements are true regarding the use of GitHub Actions on a GitHub Enterprise Server instance? (Each correct answer presents a complete solution. Choose three.)

- A. Actions must be defined in the .github repository.
- B. Actions created by GitHub are automatically available and cannot be disabled.
- C. Third-party actions can be manually synchronized for use on GitHub Enterprise Server.
- D. Third-party actions can be used on GitHub Enterprise Server by configuring GitHub Connect.
- E. Use of GitHub Actions on GitHub Enterprise Server requires a persistent internet connection.
- F. Most GitHub-authored actions are automatically bundled for use on GitHub Enterprise Server.

Answer: C,D,F

Explanation:

[B] If you want your GitHub Enterprise Server instance to use third-party custom actions, you need to enable GitHub Connect.

[C] Most official GitHub-authored actions are automatically bundled with GitHub Enterprise Server, and are captured at a point in time from GitHub Marketplace.

[F] Third-party actions can be manually synchronized to GitHub Enterprise Server (GHES) to be used in workflows without requiring an internet connection to GitHub.com. This is done using the actions-sync tool to download actions from GitHub.com and transfer them to the GHES instance.

This manual method provides an alternative to using GitHub Connect, offering stricter control over which actions are available on the GHES instance.

Reference:

<https://docs.github.com/en/enterprise-server@3.17/get-started/exploring-integrations/about-using-integrations>

<https://docs.github.com/en/enterprise-server@3.17/admin/managing-github-actions-for-your-enterprise/managing-access-to-actions-from-githubcom/about-using-actions-in-your-enterprise>

NEW QUESTION # 44

You need to create new workflows to deploy to an unfamiliar cloud provider. What is the fastest and safest way to begin?

- A. Download the CLI for the cloud provider and review the associated documentation.
- B. Create a custom action to wrap the cloud provider's CLI.
- C. Search GitHub Marketplace for verified actions published by the cloud provider.
- D. Use the actions/jenkins-plugin action to utilize an existing Jenkins plugin for the cloud provider.
- E. Search GitHub Marketplace for actions created by GitHub.

Answer: C

Explanation:

Searching the GitHub Marketplace for verified actions published by the cloud provider is the quickest and safest approach. Many cloud providers offer verified GitHub Actions that are maintained and optimized to interact with their services. These actions typically come with the correct configurations and best practices, allowing you to get started quickly without reinventing the wheel.

Note: About GitHub Marketplace for apps

GitHub Marketplace where you can share your apps with everyone.

GitHub Marketplace connects you to developers who want to extend and improve their GitHub workflows. You can list free and paid tools for developers to use in GitHub Marketplace. GitHub Marketplace offers developers two types of tools: GitHub Actions and Apps, and each tool requires different steps for adding it to GitHub Marketplace.

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