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Microsoft GH-500 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Configure and use secret scanning: This domain targets DevOps Engineers and Security Analysts with the skills to configure and manage secret scanning. It includes understanding what secret scanning is and its push protection capability to prevent secret leaks. Candidates differentiate secret scanning availability in public versus private repositories, enable scanning in private repos, and learn how to respond appropriately to alerts. The domain covers alert generation criteria for secrets, user role-based alert visibility and notification, customizing default scanning behavior, assigning alert recipients beyond admins, excluding files from scans, and enabling custom secret scanning within repositories.
Topic 2	<ul style="list-style-type: none"> Describe GitHub Advanced Security best practices, results, and how to take corrective measures: This section evaluates skills of Security Managers and Development Team Leads in effectively handling GHAS results and applying best practices. It includes using Common Vulnerabilities and Exposures (CVE) and Common Weakness Enumeration (CWE) identifiers to describe alerts and suggest remediation, decision-making processes for closing or dismissing alerts including documentation and data-based decisions, understanding default CodeQL query suites, how CodeQL analyzes compiled versus interpreted languages, the roles and responsibilities of development and security teams in workflows, adjusting severity thresholds for code scanning pull request status checks, prioritizing secret scanning remediation with filters, enforcing CodeQL and Dependency Review workflows via repository rule sets, and configuring code scanning, secret scanning, and dependency analysis to detect and remediate vulnerabilities earlier in the development lifecycle, such as during pull requests or by enabling push protection.
Topic 3	<ul style="list-style-type: none"> Configure and use Code Scanning with CodeQL: This domain measures skills of Application Security Analysts and DevSecOps Engineers in code scanning using both CodeQL and third-party tools. It covers enabling code scanning, the role of code scanning in the development lifecycle, differences between enabling CodeQL versus third-party analysis, implementing CodeQL in GitHub Actions workflows versus other CI tools, uploading SARIF results, configuring workflow frequency and triggering events, editing workflow templates for active repositories, viewing CodeQL scan results, troubleshooting workflow failures and customizing configurations, analyzing data flows through code, interpreting code scanning alerts with linked documentation, deciding when to dismiss alerts, understanding CodeQL limitations related to compilation and language support, and defining SARIF categories.

Topic 4	<ul style="list-style-type: none"> Describe the GHAS security features and functionality: This section of the exam measures skills of Security Engineers and Software Developers and covers understanding the role of GitHub Advanced Security (GHAS) features within the overall security ecosystem. Candidates learn to differentiate security features available automatically for open source projects versus those unlocked when GHAS is paired with GitHub Enterprise Cloud (GHEC) or GitHub Enterprise Server (GHES). The domain includes knowledge of Security Overview dashboards, the distinctions between secret scanning and code scanning, and how secret scanning, code scanning, and Dependabot work together to secure the software development lifecycle. It also covers scenarios contrasting isolated security reviews with integrated security throughout the development lifecycle, how vulnerable dependencies are detected using manifests and vulnerability databases, appropriate responses to alerts, the risks of ignoring alerts, developer responsibilities for alerts, access management for viewing alerts, and the placement of Dependabot alerts in the development process.
Topic 5	<ul style="list-style-type: none"> Configure and use Dependabot and Dependency Review: Focused on Software Engineers and Vulnerability Management Specialists, this section describes tools for managing vulnerabilities in dependencies. Candidates learn about the dependency graph and how it is generated, the concept and format of the Software Bill of Materials (SBOM), definitions of dependency vulnerabilities, Dependabot alerts and security updates, and Dependency Review functionality. It covers how alerts are generated based on the dependency graph and GitHub Advisory Database, differences between Dependabot and Dependency Review, enabling and configuring these tools in private repositories and organizations, default alert settings, required permissions, creating Dependabot configuration files and rules to auto-dismiss alerts, setting up Dependency Review workflows including license checks and severity thresholds, configuring notifications, identifying vulnerabilities from alerts and pull requests, enabling security updates, and taking remediation actions including testing and merging pull requests.

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Microsoft GitHub Advanced Security Sample Questions (Q92-Q97):

NEW QUESTION # 92

Using advanced setup, which code scanning configuration would help detect vulnerabilities before they are added to a shared branch?

- A. on: pull_request:
- B. on: workflow_dispatch:
- C. on: schedule:
- D. on: issues:

Answer: A

Explanation:

Code scanning merge protection prevents a pull request from merging into a protected branch if it contains security issues or if required code scanning tools are missing or incomplete. This feature, configured using GitHub Rulesets>>, acts as a safeguard, blocking merges until all code scanning alerts are addressed to a defined severity level and the analysis is complete.

Code Scanning Configuration: You configure code scanning tools (like CodeQL) in your repository to run automatically on pull

requests using the `pull_request`: event trigger.

Incorrect:

[Not A]

`workflow_dispatch` is a GitHub Actions trigger that allows users to manually start a workflow on demand, offering flexibility for tasks like deployments or testing that don't need to run automatically on every code change. This trigger can be configured with custom inputs to provide different parameters for each manual run, giving users more control over when and how specific workflows are executed.

NEW QUESTION # 93

What action do you need to include in your workflow to upload a third-party Static Analysis Results Interchange Format (SARIF) file to a repository?

- A. `scheduled`
- B. `partialFingerprints`
- C. `dependency-review`
- **D. `upload-sarif`**

Answer: D

Explanation:

Uploading a SARIF file to GitHub

You can upload SARIF files generated outside GitHub and see code scanning alerts from third-party tools in your repository

Uploading a code scanning analysis with GitHub Actions To use GitHub Actions to upload a third-party SARIF file to a repository, you'll need a workflow.

Your workflow will need to use the `upload-sarif` action, which is part of the `github/codeql-action` repository. It has input parameters that you can use to configure the upload. The main input parameters you'll use are:

`sarif_file`, which configures the file or directory of SARIF files to be uploaded. The directory or file path is relative to the root of the repository.

`category` (optional), which assigns a category for results in the SARIF file. This enables you to analyze the same commit in multiple ways and review the results using the code scanning views in GitHub. For example, you can analyze using multiple tools, and in mono-repos, you can analyze different slices of the repository based on the subset of changed files.

NEW QUESTION # 94

If notification and alert recipients are not customized, which users receive notifications about new Dependabot alerts in an affected repository?

- A. Users with Read permissions to the repository
- B. Users with Maintain privileges to the repository
- C. Users with Admin privileges to the repository
- **D. Users with Write permissions to the repository**

Answer: D

Explanation:

By default, users with Write, Maintain, or Admin permissions will receive notifications for new Dependabot alerts. However, Write permission is the minimum level needed to be automatically notified. Users with only Read access do not receive alerts unless added explicitly.

NEW QUESTION # 95

As a repository owner, you want to receive specific notifications, including security alerts, for an individual repository. Which repository notification setting should you use?

- A. All Activity
- B. Ignore
- **C. Custom**
- D. Participating and @mentions

Answer: C

Explanation:

Using the Custom setting allows you to subscribe to specific event types, such as Dependabot alerts or vulnerability notifications, without being overwhelmed by all repository activity. This is essential for repository maintainers who need fine-grained control over what kinds of events trigger notifications.

This setting is configurable per repository and allows users to stay aware of critical issues while minimizing notification noise.

NEW QUESTION # 96

Which of the following information can be found in a repository's Security tab?

- A. Two-factor authentication (2FA) options
- B. Number of alerts per GHAS feature
- C. GHAS settings
- D. Access management

Answer: B

Explanation:

The Security tab in a GitHub repository provides a central location for viewing security-related information, especially when GitHub Advanced Security is enabled. The following can be accessed:

Number of alerts related to:

Code scanning

Secret scanning

Dependency (Dependabot) alerts

Summary and visibility into open, closed, and dismissed security issues.

It does not show 2FA options, access control settings, or configuration panels for GHAS itself. Those belong to account or organization-level settings.

NEW QUESTION # 97

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