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Microsoft GH-500 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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 3	• 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.
Topic 4	• 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 rulesets, 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 5	• 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.

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Microsoft GitHub Advanced Security Sample Questions (Q73-Q78):

NEW QUESTION # 73
Which of the following options are code scanning application programming interface (API) endpoints? (Each answer presents part of the solution. Choose two.)

- A. Get a single code scanning alert
- B. Modify the severity of an open code scanning alert
- C. Delete all open code scanning alerts
- D. List all open code scanning alerts for the default branch

Answer: A,D

Explanation:
The GitHub Code Scanning API includes endpoints that allow you to:
List alerts for a repository (filtered by branch, state, or tool) - useful for monitoring security over time.
Get a single alert by its ID to inspect its metadata, status, and locations in the code.
However, GitHub does not support modifying the severity of alerts via API - severity is defined by the scanning tool (e.g., CodeQL). Likewise, alerts cannot be deleted via the API; they are resolved by fixing the code or dismissing them manually.

NEW QUESTION # 74
A repository's dependency graph includes:

- A. Annotated code scanning alerts from your repository's dependencies.
- B. A summary of the dependencies used in your organization's repositories.
- C. Dependencies from all your repositories.
- D. Dependencies parsed from a repository's manifest and lock files.

Answer: D

Explanation:
The dependency graph in a repository is built by parsing manifest and lock files (like package.json, pom.xml, requirements.txt). It helps GitHub detect dependencies and cross-reference them with known vulnerability databases for alerting.
It is specific to each repository and does not show org-wide or cross-repo summaries.

NEW QUESTION # 75
What filter or sort settings can be used to prioritize the secret scanning alerts that present the most risk?

- A. Filter to display active secrets
- B. Sort to display the newest first
- C. Sort to display the oldest first
- D. Select only the custom patterns

Answer: A

Explanation:
The best way to prioritize secret scanning alerts is to filter by active secrets - these are secrets GitHub has confirmed are still valid and could be exploited. This allows security teams to focus on high-risk exposures that require immediate attention.
Sorting by time or filtering by custom patterns won't help with risk prioritization directly.

NEW QUESTION # 76
What do you need to do before you can define a custom pattern for a repository?

- A. Provide match requirements for the secret format.
- B. Enable secret scanning on the repository.
- C. Add a secret scanning custom pattern.
- D. Provide a regular expression for the format of your secret pattern.

Answer: B

Explanation:
Stack Overflow
Explanation:
Comprehensive and Detailed Explanation:
Before defining a custom pattern for secret scanning in a repository, you must enable secret scanning for that repository. Secret scanning must be active to utilize custom patterns, which allow you to define specific formats (using regular expressions) for secrets unique to your organization.
Once secret scanning is enabled, you can add custom patterns to detect and prevent the exposure of sensitive information tailored to your needs.

NEW QUESTION # 77
What happens when you enable secret scanning on a private repository?

- A. Repository administrators can view Dependabot alerts.
- B. Dependency review, secret scanning, and code scanning are enabled.
- C. Your team is subscribed to security alerts.
- D. GitHub performs a read-only analysis on the repository.

Answer: D

Explanation:
When secret scanning is enabled on a private repository, GitHub performs a read-only analysis of the repository's contents. This includes the entire Git history and files to identify strings that match known secret patterns or custom-defined patterns.
GitHub does not alter the repository, and enabling secret scanning does not automatically enable code scanning or dependency review - each must be configured separately.

NEW QUESTION # 78
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