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Microsoft GH-500 Exam Syllabus Topics:

Topic	Details

Topic 1	• 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 2	• 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 3	• 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 4	• 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 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.

Microsoft GitHub Advanced Security Sample Questions (Q20-Q25):

NEW QUESTION # 20

Which of the following features helps to prioritize secret scanning alerts that present an immediate risk?

- A. Custom pattern dry runs
- B. Non-provider patterns
- C. Push protection
- **D. Secret validation**

Answer: D

Explanation:

Secret validation checks whether a secret found in your repository is still valid and active with the issuing provider (e.g., AWS, GitHub, Stripe). If a secret is confirmed to be active, the alert is marked as verified, which means it's considered a high-priority issue because it presents an immediate security risk.

This helps teams respond faster to valid, exploitable secrets rather than wasting time on expired or fake tokens.

NEW QUESTION # 21

Which key is required in the update settings of the Dependabot configuration file?

- A. assignees
- **B. package-ecosystem**
- C. rebase-strategy
- D. commit-message

Answer: B

Explanation:

In a dependabot.yml configuration file, package-ecosystem is a required key. It defines the package manager being used in that update configuration (e.g., npm, pip, maven, etc.).

Without this key, Dependabot cannot determine how to analyze or update dependencies. Other keys like rebase-strategy or commit-message are optional and used for customizing behavior.

NEW QUESTION # 22

Which syntax in a query suite tells CodeQL to look for one or more specified .ql files?

- **A. query**
- B. qlpack
- C. qls

Answer: A

Explanation:

In a query suite (a .qls file), the ****query**** key is used to specify the paths to one or more .ql files that should be included in the suite.

Example:

- query: path/to/query.ql

qls is the file format.

qlpack is used for packaging queries, not in suite syntax.

NEW QUESTION # 23

Assuming that notification settings and Dependabot alert recipients have not been customized, which user account setting should you use to get an alert when a vulnerability is detected in one of your repositories?

- A. Enable all in existing repositories
- B. Enable by default for new public repositories
- **C. Enable all for Dependabot alerts**
- D. Enable all for Dependency graph

Answer: C

Explanation:

To ensure you're notified whenever a vulnerability is detected via Dependabot, you must enable alerts for Dependabot in your personal notification settings. This applies to both new and existing repositories. It ensures you get timely alerts about security vulnerabilities.

The dependency graph must be enabled for scanning, but does not send alerts itself.

NEW QUESTION # 24

If default code security settings have not been changed at the repository, organization, or enterprise level, which repositories receive Dependabot alerts?

- A. Repositories owned by an enterprise account
- B. Private repositories
- C. Repositories owned by an organization
- **D. None**

Answer: D

Explanation:

By default, no repositories receive Dependabot alerts unless configuration is explicitly enabled. GitHub does not enable Dependabot alerts automatically for any repositories unless:

The feature is turned on manually

It's configured at the organization or enterprise level via security policies This includes public, private, and enterprise-owned repositories - manual activation is required.

NEW QUESTION # 25

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