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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	• 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 3	• 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	• 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	• 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.

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

NEW QUESTION # 73
When configuring code scanning with CodeQL, what are your options for specifying additional queries? (Each answer presents part of the solution. Choose two.)

- A. Scope
- B. Packs
- C. github/codeql
- D. Queries

Answer: B,D

Explanation:
You can customize CodeQL scanning by including additional query packs or by specifying individual queries:
Packs: These are reusable collections of CodeQL queries bundled into a single package.
Queries: You can point to specific files or directories containing .ql queries to include in the analysis.
github/codeql refers to a pack by name but is not a method or field. Scope is not a valid field used for configuration in this context.

NEW QUESTION # 74
Which syntax in a query suite tells CodeQL to look for one or more specified .ql files?

- A. qls

- B. qlpack
- C. query

Answer: C

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 # 75
What combination of security measures helps to mitigate risks throughout the SDLC (Software Development Life Cycle)?

- A. Confidentially report security vulnerabilities and privately discuss and fix security vulnerabilities in your repository's code
- B. View alerts about dependencies that are known to contain security vulnerabilities
- C. Search for potential security vulnerabilities, detect secrets, and show the full impact of changes to dependencies
- D. Automatically raise pull requests, which reduces your exposure to older versions of dependencies

Answer: C

Explanation:
These three features provide a complete layer of defense:
Code scanning identifies security flaws in your source code
Secret scanning detects exposed credentials
Dependency review shows the impact of package changes during a pull request Together, they give developers actionable insight into risk and coverage throughout the SDLC.

NEW QUESTION # 76
Assuming security and analysis features are not configured at the repository, organization, or enterprise level, secret scanning is enabled on:

- A. Private repositories
- B. All new repositories within your organization
- C. Public repositories
- D. User-owned private repositories

Answer: C

Explanation:
By default, secret scanning is enabled automatically for all public repositories. For private or internal repositories, secret scanning must be enabled manually unless configured at the organization or enterprise level.
This default behavior helps protect open-source projects without requiring additional configuration.

NEW QUESTION # 77
The autobuild step in the CodeQL workflow has failed. What should you do?

- A. Remove specific build steps.
- B. Remove the autobuild step from your code scanning workflow and add specific build steps.
- C. Use CodeQL, which implicitly detects the supported languages in your code base.
- D. Compile the source code.

Answer: B

Explanation:
If autobuild fails (which attempts to automatically detect how to build your project), you should disable it in your workflow and

replace it with explicit build commands, using steps like run: make or run: ./gradlew build.
This ensures CodeQL can still extract and analyze the code correctly.

NEW QUESTION # 78

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