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Microsoft GH-500 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 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 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 5	- 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.

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Microsoft GitHub Advanced Security Sample Questions (Q26-Q31):

NEW QUESTION # 26
In the pull request, how can developers avoid adding new dependencies with known vulnerabilities?

- A. Enable Dependabot security updates.
- B. Add a workflow with the dependency review action.
- C. Add Dependabot rules.
- D. Enable Dependabot alerts.

Answer: B

Explanation:
To detect and block vulnerable dependencies before merge, developers should use the Dependency Review GitHub Action in their pull request workflows. It scans all proposed dependency changes and flags any packages with known vulnerabilities.
This is a preventative measure during development, unlike Dependabot, which reacts after the fact.

NEW QUESTION # 27
Where can you view code scanning results from CodeQL analysis?

- A. A CodeQL database
- B. A CodeQL query pack
- C. At Security advisories
- D. The repository's code scanning alerts

Answer: D

Explanation:
All results from CodeQL analysis appear under the repository's code scanning alerts tab. This section is part of the Security tab and provides a list of all current, fixed, and dismissed alerts found by CodeQL.
A CodeQL database is used internally during scanning but does not display results. Query packs contain rules, not results. Security advisories are for published vulnerabilities, not per-repo findings.

NEW QUESTION # 28
Which CodeQL query suite provides queries of lower severity than the default query suite?

- A. github/codeql/cpp/ql/src@main
- B. security-extended
- C. github/codeql-go/ql/src@main

Answer: B

Explanation:
The security-extended query suite includes additional CodeQL queries that detect lower severity issues than those in the default security-and-quality suite.
It's often used when projects want broader visibility into code hygiene and potential weak spots beyond critical vulnerabilities.
The other options listed are paths to language packs, not query suites themselves.

NEW QUESTION # 29
What does a CodeQL database of your repository contain?

- A. Build commands for C/C++, C#, and Java
- B. A build for Go projects to set up the project
- C. A build of the code and extracted data
- D. A representation of all of the source code

Answer: C

Explanation:
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Explanation:
Comprehensive and Detailed Explanation:
A CodeQL database contains a representation of your codebase, including the build of the code and extracted data. This database is used to run CodeQL queries to analyze your code for potential vulnerabilities and errors.
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NEW QUESTION # 30
Which of the following options would close a Dependabot alert?

- A. Creating a pull request to resolve the vulnerability that will be approved and merged
- B. Viewing the dependency graph

- C. Leaving the repository in its current state
- D. Viewing the Dependabot alert on the Dependabot alerts tab of your repository

Answer: A

Explanation:
A Dependabot alert is only marked as resolved when the related vulnerability is no longer present in your code - specifically after you merge a pull request that updates the vulnerable dependency.
Simply viewing alerts or graphs does not affect their status. Ignoring the alert by leaving the repo unchanged keeps the vulnerability active and unresolved.

NEW QUESTION # 31
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