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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 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 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 4	• 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 5	• 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.

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Microsoft GitHub Advanced Security Sample Questions (Q54-Q59):

NEW QUESTION # 54
Which details do you have to provide to create a custom pattern for secret scanning? (Each answer presents part of the solution.

Choose two.)

- A. A list of repositories to scan
- B. The secret format
- C. The name of the pattern
- D. Additional match requirements for the secret format

Answer: B,C

Explanation:
When defining a custom pattern for secret scanning, two key fields are required:
Name of the pattern: A unique label to identify the pattern
Secret format: A regular expression that defines what the secret looks like (e.g., token format) You can optionally specify additional match requirements (like required context keywords), but they're not mandatory. Listing repositories is also not part of the required fields during pattern creation.

NEW QUESTION # 55
Which of the following Watch settings could you use to get Dependabot alert notifications? (Each answer presents part of the solution. Choose two.)

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

Answer: B,D

Explanation:
Comprehensive and Detailed Explanation:
To receive Dependabot alert notifications for a repository, you can utilize the following Watch settings:
Custom setting: Allows you to tailor your notifications, enabling you to subscribe specifically to security alerts, including those from Dependabot.
All Activity setting: Subscribes you to all notifications for the repository, encompassing issues, pull requests, and security alerts like those from Dependabot.
The Participating and @mentions setting limits notifications to conversations you're directly involved in or mentioned, which may not include security alerts. The Ignore setting unsubscribes you from all notifications, including critical security alerts.
GitHub Docs
+1
GitHub Docs
+1

NEW QUESTION # 56
Which syntax in a query suite tells CodeQL to look for one or more specified .ql files?

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

Answer: B

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 # 57
Which of the following is the best way to prevent developers from adding secrets to the repository?

- A. Make the repository public
- B. Configure a security manager
- C. Enable push protection
- D. Create a CODEOWNERS file

Answer: C

Explanation:
The best proactive control is push protection. It scans for secrets during a git push and blocks the commit before it enters the repository.
Other options (like CODEOWNERS or security managers) help with oversight but do not prevent secret leaks.
Making a repo public would increase the risk, not reduce it.

NEW QUESTION # 58
A dependency has a known vulnerability. What does the warning message include?

- A. How many projects use these components
- B. An easily understandable visualization of dependency change
- C. A brief description of the vulnerability
- D. The security impact of these changes

Answer: C

Explanation:
When a vulnerability is detected, GitHub shows a warning that includes a brief description of the vulnerability. This typically covers the name of the CVE (if available), a short summary of the issue, severity level, and potential impact. The message also links to additional advisory data from the GitHub Advisory Database.
This helps developers understand the context and urgency of the vulnerability before applying the fix.

NEW QUESTION # 59
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