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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	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 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 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 (Q43-Q48):

NEW QUESTION # 43

You are managing code scanning alerts for your repository. You receive an alert highlighting a problem with data flow. What do you click for additional context on the alert?

- A. Code scanning alerts
- B. Security
- **C. Show paths**

Answer: C

Explanation:

When dealing with a data flow issue in a code scanning alert, clicking on "Show paths" provides a detailed view of the data's journey through the code. This includes the source of the data, the path it takes, and where it ends up (the sink). This information is crucial for understanding how untrusted data might reach sensitive parts of your application and helps in identifying where to implement proper validation or sanitization.

NEW QUESTION # 44

Which of the following information can be found in a repository's Security tab?

- **A. number of alerts per GHAS feature**
- B. two-factor authentication (2FA) options
- C. access management
- D. GHAS settings

Answer: A

Explanation:

You can find security alerts from Dependabot, Secret scanning, and Code scanning under your repository's Security tab. Security alerts for a repository are visible to people with write, maintain, or admin access to the repository and, when the repository is owned by an organization, organization owners.

NEW QUESTION # 45

Which features require GitHub Advanced Security to be enabled for internal and private repositories in an organization? Each correct answer presents part of the solution. (Choose two.)

- A. security policy
- B. packages
- **C. dependency review**
- **D. secret scanning**

Answer: C,D

Explanation:

About GitHub Advanced Security products

GitHub has many features that help you improve and maintain the quality of your code. Some of these are included in all plans, such as dependency graph and Dependabot alerts.

Other security features require you to purchase one of GitHub's Advanced Security products:

GitHub Secret Protection, which includes features that help you detect and prevent secret leaks, such as secret scanning [B] and push protection.

GitHub Code Security, which includes features that help you find and fix vulnerabilities, like code scanning, premium Dependabot features, and dependency review [D].

NEW QUESTION # 46

Which CodeQL query suite provides queries of lower severity than the default query suite?

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

Answer: C

Explanation:

The security-extended query suite includes additional CodeQL queries that detect lower severity issues than those in the default security-and-quality suite.

About CodeQL query suites

With CodeQL code scanning, you can select a specific group of CodeQL queries, called a CodeQL query suite, to run against your code. The following built-in query suites are available through GitHub:

default query suite.

security-extended query suite. This suite is referred to as the "Extended" query suite on GitHub.

Currently, both the default query suite and the security-extended query suite are available for default setup for code scanning.

NEW QUESTION # 47

Which Dependabot configuration fields are required? Each answer presents part of the solution.

(Choose three.)

- A. allow
- B. **schedule.interval**
- C. **directory**
- D. milestone
- E. **package-ecosystem**

Answer: B,C,E

Explanation:

When configuring Dependabot via the dependabot.yml file, the following fields are mandatory for each update configuration:

[D] directory: Specifies the location of the package manifest within the repository. This tells Dependabot where to look for dependency files.

[A] package-ecosystem: Indicates the type of package manager (e.g., npm, pip, maven) used in the specified directory.

[C] schedule.interval: Defines how frequently Dependabot checks for updates (e.g., daily, weekly). This ensures regular scanning for outdated or vulnerable dependencies.

[Not E] The milestone field is optional and used for associating pull requests with milestones. The allow field is also optional and used to specify which dependencies to update.

NEW QUESTION # 48

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