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New developments in the tech sector always bring new job opportunities. These new jobs have to be filled with the GitHub Advanced Security (GH-500) certification holders. So to fill the space, you need to pass the GitHub Advanced Security (GH-500) exam. Earning the GitHub Advanced Security (GH-500) certification helps you clear the obstacles you face while working in the Microsoft field. To get prepared for the GitHub Advanced Security (GH-500) certification exam, applicants face a lot of trouble if the study material is not updated.

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	• 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 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	• 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.

Microsoft GitHub Advanced Security Sample Questions (Q70-Q75):

NEW QUESTION # 70
When using CodeQL, how does extraction for compiled languages work?

- A. By monitoring the normal build process
- B. By resolving dependencies to give an accurate representation of the codebase
- C. By generating one language at a time
- D. By running directly on the source code

Answer: A

Explanation:
For compiled languages, CodeQL performs extraction by monitoring the normal build process. This means it watches your usual build commands (like make, javac, or dotnet build) and extracts the relevant data from the actual build steps being executed. CodeQL uses this information to construct a semantic database of the application.
This approach ensures that CodeQL captures a precise, real-world representation of the code and its behavior as it is compiled, including platform-specific configurations or conditional logic used during build.

NEW QUESTION # 71
Which key is required in the update settings of the Dependabot configuration file?

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

Answer: D

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 # 72
As a developer with write access, you navigate to a code scanning alert in your repository. When will GitHub close this alert?

- A. When you use data-flow analysis to find potential security issues in code
- B. After you fix the code by committing within the pull request
- C. After you find the code and click the alert within the pull request
- D. After you triage the pull request containing the alert

Answer: B

Explanation:
GitHub automatically closes a code scanning alert when the vulnerable code is fixed in the same branch where the alert was generated, usually via a commit inside a pull request. Simply clicking or triaging an alert does not resolve it. The alert is re-evaluated after each push to the branch, and if the issue no longer exists, it is marked as resolved.

NEW QUESTION # 73
How would you build your code within the CodeQL analysis workflow? (Each answer presents a complete solution. Choose two.)

- A. Use CodeQL's init action.
- B. Ignore paths.
- C. Implement custom build steps.
- D. Use jobs.analyze.runs-on.
- E. Upload compiled binaries.

- F. Use CodeQL's autobuild action.

Answer: C,F

Explanation:
Comprehensive and Detailed Explanation:
When setting up CodeQL analysis for compiled languages, there are two primary methods to build your code:
GitHub Docs
Autobuild: CodeQL attempts to automatically build your codebase using the most likely build method. This is suitable for standard build processes.
GitHub Docs
Custom Build Steps: For complex or non-standard build processes, you can implement custom build steps by specifying explicit build commands in your workflow. This provides greater control over the build process.
GitHub Docs
The init action initializes the CodeQL analysis but does not build the code. The jobs.analyze.runs-on specifies the operating system for the runner but is not directly related to building the code. Uploading compiled binaries is not a method supported by CodeQL for analysis.

NEW QUESTION # 74
Which of the following features helps to prioritize secret scanning alerts that present an immediate risk?

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

Answer: A

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 # 75
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