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GitHub Advanced Security Exam Practice Dump Provide Best GH-500 Study Questions

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Microsoft GH-500 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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.

Microsoft GitHub Advanced Security Sample Questions (Q35-Q40):

NEW QUESTION # 35

After investigating a code scanning alert related to injection, you determine that the input is properly sanitized using custom logic. What should be your next step?

- A. Open an issue in the CodeQL repository.
- B. Draft a pull request to update the open-source query.
- C. Ignore the alert.
- **D. Dismiss the alert with the reason "false positive."**

Answer: D

Explanation:

When you identify that a code scanning alert is a false positive-such as when your code uses a custom sanitization method not recognized by the analysis-you should dismiss the alert with the reason "false positive." This action helps improve the accuracy of future analyses and maintains the relevance of your security alerts.

As per GitHub's documentation:

"If you dismiss a CodeQL alert as a false positive result, for example because the code uses a sanitization library that isn't supported, consider contributing to the CodeQL repository and improving the analysis." By dismissing the alert appropriately, you ensure that your codebase's security alerts remain actionable and relevant.

NEW QUESTION # 36

What should you do after receiving an alert about a dependency added in a pull request?

- A. Disable Dependabot alerts for all repositories owned by your organization
- **B. Update the vulnerable dependencies before the branch is merged**
- C. Fork the branch and deploy the new fork
- D. Deploy the code to your default branch

Answer: B

Explanation:

If an alert is raised on a pull request dependency, best practice is to update the dependency to a secure version before merging the PR. This prevents the vulnerable version from entering the main codebase.

Merging or deploying the PR without fixing the issue exposes your production environment to known risks.

NEW QUESTION # 37

Which of the following options would close a Dependabot alert?

- A. Viewing the dependency graph
- B. Viewing the Dependabot alert on the Dependabot alerts tab of your repository
- C. Leaving the repository in its current state
- **D. Creating a pull request to resolve the vulnerability that will be approved and merged**

Answer: D

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 # 38

If default code security settings have not been changed at the repository, organization, or enterprise level, which repositories receive Dependabot alerts?

- A. Repositories owned by an organization
- B. Repositories owned by an enterprise account
- **C. None**
- D. Private repositories

Answer: C

Explanation:

By default, no repositories receive Dependabot alerts unless configuration is explicitly enabled. GitHub does not enable Dependabot alerts automatically for any repositories unless:

The feature is turned on manually

It's configured at the organization or enterprise level via security policies This includes public, private, and enterprise-owned repositories - manual activation is required.

NEW QUESTION # 39

Which of the following is the most complete method for Dependabot to find vulnerabilities in third-party dependencies?

- A. CodeQL analyzes the code and raises vulnerabilities in third-party dependencies
- B. Dependabot reviews manifest files in the repository
- **C. A dependency graph is created, and Dependabot compares the graph to the GitHub Advisory database**
- D. The build tool finds the vulnerable dependencies and calls the Dependabot API

Answer: C

Explanation:

Dependabot builds a dependency graph by analyzing package manifests and lockfiles in your repository. This graph includes both direct and transitive dependencies. It then compares this graph against the GitHub Advisory Database, which includes curated, security-reviewed advisories.

This method provides a comprehensive and automated way to discover all known vulnerabilities across your dependency tree.

NEW QUESTION # 40

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