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Microsoft GH-500 Exam Syllabus Topics:

Topic	Details

Topic 1	• 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 2	• 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	• 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 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 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 (Q118-Q123):

NEW QUESTION # 118
What is a security policy?

- A. A security alert issued to a community in response to a vulnerability
- B. A file in a GitHub repository that provides instructions to users about how to report a security vulnerability
- C. An automatic detection of security vulnerabilities and coding errors in new or modified code
- D. An alert about dependencies that are known to contain security vulnerabilities

Answer: B

Explanation:
A security policy is defined by a SECURITY.md file in the root of your repository or .github/ directory. This file informs contributors and security researchers about how to responsibly report vulnerabilities. It improves your project's transparency and ensures timely communication and mitigation of any reported issues.
Adding this file also enables a "Report a vulnerability" button in the repository's Security tab.

NEW QUESTION # 119
When using the advanced CodeQL code scanning setup, what is the name of the workflow file?

- A. codeql-scan.yml
- B. codeql-workflow.yml
- C. codeql-config.yml
- D. codeql.yml

Answer: D

Explanation:
If you already enabled CodeQL with the default settings, select the menu labeled "...", then select Switch to advanced. Select Disable CodeQL when prompted. Don't worry, we will re-enable it after we've completed the advanced setup process.
After selecting or switching to advanced, you'll be taken to a GitHub Actions workflow file named codeql.yml. You can find it in your Web Goat repository's /.github/workflows directory. This is the file we use to run and configure CodeQL.

NEW QUESTION # 120
You are a maintainer of a repository and Dependabot notifies you of a vulnerability. Where could the vulnerability have been disclosed? Each answer presents part of the solution. (Choose two.)

- A. in the dependency graph
- B. in security advisories reported on GitHub
- C. in manifest and lock files
- D. in the National Vulnerability Database

Answer: B,C

Explanation:
C: GitHub may send Dependabot alerts to repositories affected by a vulnerability disclosed by a recently published GitHub security advisory.
D: The Dependabot security updates feature is available for repositories where you have enabled the dependency graph and Dependabot alerts. You will see a Dependabot alert for every vulnerable dependency identified in your full dependency graph. However, security updates are triggered only for dependencies that are specified in a manifest or lock file.

NEW QUESTION # 121
Assuming that no custom patterns are configured, what type of secret is detected by secret scanning?

- A. sealed boxes
- B. private keys
- C. Personal Identifiable Information (PII)
- D. usernames

Answer: B

Explanation:
GitHub secret scanning detects and alerts on sensitive data exposure, such as API keys and credentials, in your code repositories.

NEW QUESTION # 122
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. packages
- B. security policy
- C. secret scanning
- D. dependency review

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 # 123
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