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### Microsoft GH-500 Exam Syllabus Topics:

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

Topic 2	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>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.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>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.</li> </ul>

## Microsoft GitHub Advanced Security Sample Questions (Q43-Q48):

### NEW QUESTION # 43

Which of the following tasks can be performed by a security team as a proactive measure to help address secret scanning alerts? Each answer presents a complete solution. (Choose two.)

- A. Configure a webhook to monitor for secret scanning alert events.
- B. Dismiss alerts that are older than 90 days.
- C. Document alternatives to storing secrets in the source code.
- D. Enable system for cross-domain identity management (SCIM) provisioning for the enterprise.

Answer: A,C

Explanation:

[D] Integrate Secret Scanning into the Development Lifecycle:

\*-> Pre-commit hooks:

Implement pre-commit hooks in version control systems to scan code for secrets before they are even committed.

[B] Implement a Comprehensive Secret Scanning Policy:

Define Secrets: Clearly define what constitutes a secret within your organization.

Scanning Scope: Specify which environments and repositories need to be scanned and how often.

Roles and Responsibilities: Define roles and responsibilities for managing secret scanning and remediation.

Incorrect:

[A] You can manage the lifecycle of your enterprise's user accounts from your identity provider (IdP) using System for Cross-domain Identity Management (SCIM).

#### NEW QUESTION # 44

What are Dependabot security updates?

- A. compatibility scores to let you know whether updating a dependency could cause breaking changes to your project
- B. automated pull requests to update the manifest to the latest version of the dependency
- C. automated pull requests that help you update dependencies that have known vulnerabilities
- D. automated pull requests that keep your dependencies updated, even when they don't have any vulnerabilities

**Answer: C**

Explanation:

Dependabot security updates are a feature that automatically generates pull requests to update vulnerable dependencies in your repositories. This helps you keep your projects secure by addressing known vulnerabilities in your project's dependencies. When Dependabot detects a vulnerable dependency, it creates a pull request to update the dependency to a secure version, streamlining the process of patching vulnerabilities.

Note:

Automated Pull Requests:

Dependabot automatically creates pull requests when it identifies a security vulnerability in your project's dependencies.

Vulnerable Dependency Updates:

These pull requests are specifically designed to update the vulnerable dependency to the latest secure version or a version that includes the necessary security patches.

#### NEW QUESTION # 45

As a repository owner, you want to receive specific notifications, including security alerts, for an individual repository. Which repository notification setting should you use?

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

**Answer: D**

Explanation:

Using the Custom setting allows you to subscribe to specific event types, such as Dependabot alerts or vulnerability notifications, without being overwhelmed by all repository activity. This is essential for repository maintainers who need fine-grained control over what kinds of events trigger notifications.

This setting is configurable per repository and allows users to stay aware of critical issues while minimizing notification noise.

#### NEW QUESTION # 46

What YAML syntax do you use to exclude certain files from secret scanning?

- A. decrypt\_secret.sh
- B. secret\_scanning.yml
- C. branches-ignore:

- **D. paths-ignore:**

**Answer: D**

Explanation:

To exclude specific files or directories from being scanned by secret scanning in GitHub Actions, you can use the `paths-ignore` key within your YAML workflow file.

This tells GitHub to ignore specified paths when scanning for secrets, which can be useful for excluding test data or non-sensitive mock content.

Other options listed are invalid:

`branches-ignore`: excludes branches, not files.

`decrypt_secret.sh` is not a YAML key.

`secret_scanning.yml` is not a recognized filename for configuration.

#### NEW QUESTION # 47

Which of the following formats are used to describe a code scanning alert from CodeQL?

- **A. Common Weakness Enumeration (CWE)**
- B. GitHub Security Advisory (GHSAs)
- C. Common Vulnerabilities and Exposures (CVE)
- D. Vulnerability Exploitability eXchange (VEX)

**Answer: A**

Explanation:

Common Weakness Enumeration (CWE) is used by CodeQL to describe the vulnerabilities it detects in code scanning alerts.

CodeQL's queries are designed to identify a wide range of weaknesses, and each security query is associated with one or more specific CWEs, providing developers with standardized identifiers for the types of vulnerabilities found.

By associating alerts with CWEs, CodeQL provides a structured and informative approach to vulnerability management, making it easier for development teams to understand, address, and prevent security issues.

Note: The Common Weakness Enumeration (CWE) system is an industry-standard way of cataloging insecure software development patterns. CodeQL runs hundreds of queries out of the box that are able to detect an even greater number of CWEs.

We went back through our existing queries, and aligned dozens of them with updated CWE IDs to give users better insight into the potential impact of a security issue when an alert is flagged up by code scanning.

Incorrect:

[Not B]

Vulnerability Exploitability eXchange (VEX) is not used by CodeQL; rather, CodeQL and VEX are complementary tools in software security: CodeQL identifies code vulnerabilities, while VEX communicates the exploitability of a vulnerability within a specific product context, helping users focus on relevant threats.

[Not C]

GitHub Advisories (GHSAs) is a database of CVEs and GitHub-originated security advisories affecting the open source world.

Advisories may or may not be documented in the National Vulnerability Database. Dependency-Track integrates with GHSAs by mirroring advisories via GitHub's public GraphQL API.

[Not D]

CodeQL finds the vulnerability, and CVE provides the universally recognized identifier and description for that specific vulnerability, allowing for better communication and faster response within the cybersecurity community.

Common Vulnerabilities and Exposures (CVE) is a standardized dictionary that provides unique identifiers for publicly known cybersecurity weaknesses in software and hardware. Maintained by the MITRE Corporation and funded by the U.S. Department of Homeland Security, CVE ensures a common language for cybersecurity professionals to track, discuss, and address vulnerabilities effectively across the industry. Each CVE entry includes an identifier, a description, and references to publicly available information about the vulnerability.

#### NEW QUESTION # 48

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