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Microsoft GH-500 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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 2	• 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 3	• 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	• 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	• 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.

Microsoft GitHub Advanced Security Sample Questions (Q62-Q67):

NEW QUESTION # 62
What role is required to change a repository's code scanning severity threshold that fails a pull request status check?

- A. Triage
- B. Maintain
- C. Admin
- D. Write

Answer: C

Explanation:
To change the threshold that defines whether a pull request fails due to code scanning alerts (such as blocking merges based on severity), the user must have Admin access on the repository. This is because modifying these settings falls under repository configuration privileges.
Users with Write, Maintain, or Triage roles do not have the required access to modify rulesets or status check policies.

NEW QUESTION # 63
In a private repository, what minimum requirements does GitHub need to generate a dependency graph? (Each answer presents part of the solution. Choose two.)

- A. Dependency graph enabled at the organization level for all new private repositories
- B. Write access to the dependency manifest and lock files for an enterprise
- C. Read-only access to the dependency manifest and lock files for a repository
- D. Read-only access to all the repository's files

Answer: A,C

Explanation:
Comprehensive and Detailed Explanation:
To generate a dependency graph for a private repository, GitHub requires:
Dependency graph enabled: The repository must have the dependency graph feature enabled. This can be configured at the organization level to apply to all new private repositories.
Access to manifest and lock files: GitHub needs read-only access to the repository's dependency manifest and lock files (e.g., package.json, requirements.txt) to identify and map dependencies.

NEW QUESTION # 64
What should you do after receiving an alert about a dependency added in a pull request?

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

Answer: A

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 # 65
How many alerts are created when two instances of the same secret value are in the same repository?

- A. 0
- B. 1
- C. 2
- D. 3

Answer: B

Explanation:
When multiple instances of the same secret value appear in a repository, only one alert is generated. Secret scanning works by identifying exposed credentials and token patterns, and it groups identical matches into a single alert to reduce noise and avoid duplication.
This makes triaging easier and helps teams focus on remediating the actual exposed credential rather than reviewing multiple redundant alerts.

NEW QUESTION # 66
Which CodeQL query suite provides queries of lower severity than the default query suite?

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

Answer: A

Explanation:
The security-extended query suite includes additional CodeQL queries that detect lower severity issues than those in the default security-and-quality suite.
It's often used when projects want broader visibility into code hygiene and potential weak spots beyond critical vulnerabilities.
The other options listed are paths to language packs, not query suites themselves.

NEW QUESTION # 67
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