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Time is flying and the exam date is coming along, which is sort of intimidating considering your status of review process. The more efficient the materials you get, the higher standard you will be among competitors. So, our high quality and high accuracy rate GH-500 Training Materials are your ideal choice this time. With the high pass rate as 98% to 100%, i can say that you won't find the better GH-500 exam questions than ours. And our GH-500 study guide is offered by a charming price.

Microsoft GH-500 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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"> 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 5	<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.

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Microsoft GitHub Advanced Security Sample Questions (Q121-Q126):

NEW QUESTION # 121

As a repository owner, you do not want to run a GitHub Actions workflow when changes are made to any .txt or markdown files. How would you adjust the event trigger for a pull request that targets the main branch? Each answer presents part of the solution. (Choose three.)

1. on:
2. push:
3. branches: [main, protected]
4. pull_request:
5. branches: [main]

- A. paths:
- B. - '**/*.txt'
- C. paths-ignore:
- D. - '**/*.md'
- E. - '*/docs/*.md'

Answer: B,C,D

Explanation:

[A, not B, D] Use the paths filter when you want to include file path patterns or when you want to both include and exclude file path patterns. Use the paths-ignore filter when you only want to exclude file path patterns. You cannot use both the paths and paths-ignore filters for the same event in a workflow.

[Not E] Pattern: docs/**/* .md

A file with a .md suffix anywhere in the docs directory.

NEW QUESTION # 122

Which of the following formats are used to describe a Dependabot alert? (Each answer presents a complete solution. Choose two.)

- A. Vulnerability Exploitability exchange (VEX)
- B. Exploit Prediction Scoring System (EPSS)
- C. Common Weakness Enumeration (CWE)
- D. Common Vulnerabilities and Exposures (CVE)

Answer: C,D

Explanation:

Dependabot alerts utilize standardized identifiers to describe vulnerabilities:

CVE (Common Vulnerabilities and Exposures): A widely recognized identifier for publicly known cybersecurity vulnerabilities.

CWE (Common Weakness Enumeration): A category system for software weaknesses and vulnerabilities.

These identifiers help developers understand the nature of the vulnerabilities and facilitate the search for more information or remediation strategies.

NEW QUESTION # 123

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

Answer: A,B

Explanation:

Comprehensive and Detailed Explanation:

Dependabot alerts are generated based on data from various sources:

National Vulnerability Database (NVD): A comprehensive repository of known vulnerabilities, which GitHub integrates into its advisory database.

GitHub Docs

Security Advisories Reported on GitHub: GitHub allows maintainers and security researchers to report and discuss vulnerabilities, which are then included in the advisory database.

The dependency graph and manifest/lock files are tools used by GitHub to determine which dependencies are present in a repository but are not sources of vulnerability disclosures themselves.

NEW QUESTION # 124

What happens when you enable secret scanning on a private repository?

- A. Dependency review, secret scanning, and code scanning are enabled.
- B. Repository administrators can view Dependabot alerts.
- C. Your team is subscribed to security alerts.
- D. GitHub performs a read-only analysis on the repository.

Answer: B

Explanation:

GitHub secret scanning detects and alerts on sensitive data exposure, such as API keys and credentials, in your code repositories. Use it to protect your secrets, ensure secure and compliant development practices, and reduce the risk of data breaches and unauthorized access.

GitHub has scanned public repositories for secrets (like API keys and tokens) for several years.

Secret scanning protects our partners and our customers from unauthorized use of the services protected by those secrets. Just this month, 8% of active GitHub repositories committed a secret that was caught by secret scanning.

At GitHub Satellite, we announced secret scanning for private repositories, part of GitHub Advanced Security. We're bringing the same lightning-fast scanning engine and broad set of 24 partners (including all the major cloud providers and many common SaaS providers) to your private repository, so you can catch secrets as soon as they're checked in. Repository admins will be notified about any commit that contains a secret, and can quickly view all detected secrets in the repo's Security tab.

NEW QUESTION # 125

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. Ignore the alert.
- B. Draft a pull request to update the open-source query.
- C. Open an issue in the CodeQL repository.
- 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 # 126

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There is a high demand for GitHub Advanced Security certification, therefore there is an increase in the number of Microsoft GH-500 exam candidates. Many resources are available on the internet to prepare for the GitHub Advanced Security exam. ActualPDF is one of the best certification exam preparation material providers where you can find newly released Microsoft GH-500 Dumps for your exam preparation.

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