

Exam GH-300 Topics - Valid Exam GH-300 Blueprint

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Exam : GH-300

Title : GitHub Copilot

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The Actual4dump is one of the top-rated and reliable platforms that has been helping the GitHub Copilot (GH-300) exam candidates for many years. Over this long time period, these GH-300 questions have helped countless GH-300 exam candidates. They all got help from the top-rated GH-300 Practice Test questions and easily passed their dream Microsoft GH-300 certification exam and now they have become certified GH-300 professionals and doing jobs in top world brands.

Microsoft GH-300 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Developer Use Cases for AI: Targeting Software Engineers and Technical Leads, this domain elaborates on how AI improves developer productivity across common tasks like learning new languages, translation, documentation, debugging, data science, and refactoring. It discusses Copilot's support in software development lifecycle management and highlights its limitations. Use of the productivity API to track Copilot's impact is also included.

Topic 2	<ul style="list-style-type: none"> • Domain 6: Testing with GitHub Copilot: This section measures abilities of QA Engineers and Test Automation Specialists to use Copilot for test generation, including unit and integration tests. It explains how Copilot can identify edge cases and assist in writing assertions. The domain also covers different Copilot subscription SKUs, privacy considerations, organizational code suggestion settings, and configuration files related to Copilot.
Topic 3	<ul style="list-style-type: none"> • GitHub Copilot Plans and Feature: This domain targets Product Managers and DevOps Engineers and focuses on understanding the various GitHub Copilot subscription plans like Individual, Business, and Enterprise, including distinctions and management features. It covers how Copilot is integrated into IDEs, different triggering methods for code suggestions, organizational policy management, subscription administration via API, and effective use of Copilot Chat and Knowledge Bases. Candidates also learn about CLI usage and configuration.
Topic 4	<ul style="list-style-type: none"> • Responsible :This section of the exam measures skills of AI Ethics Officers and Risk Managers and covers the responsible and ethical usage of AI technologies. It explains the risks and limitations associated with generative AI tools, including biases in training data and the need to validate AI outputs. Candidates learn how to operate AI responsibly by identifying potential harms such as bias, fairness, privacy concerns, and mitigating these harms by applying ethical AI principles.
Topic 5	<ul style="list-style-type: none"> • Domain 4: Prompt Crafting and Prompt Engineering This section measures skills of Software Developers and AI Interaction Designers in effectively crafting prompts to optimize Copilot's output. It reviews foundational concepts such as prompt components, the role of language in prompting, zero-shot vs. few-shot prompting, and how chat history influences responses. Best practices and engineering principles for prompt design and training methods are also covered.

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Microsoft GitHub Copilot Sample Questions (Q86-Q91):

NEW QUESTION # 86

How is GitHub Copilot Individual billed? (Each correct answer presents part of the solution. Choose two.)

- A. Free (not billed) for all open source projects
- B. Monthly, as a metered service based on actual consumption
- C. Annually as a subscription
- D. Monthly as a subscription

Answer: C,D

Explanation:

GitHub Copilot Individual is billed as a monthly or annual subscription.

Reference: GitHub Copilot Individual pricing.

NEW QUESTION # 87

What is the impact of the "Fill-In-the-Middle" (FIM) technique on GitHub Copilot's code suggestions?

- A. Allows Copilot to generate suggestions based only on the prefix of the code.

- B. Restricts Copilot to use only external databases for generating code suggestions.
- C. Ignores both the prefix and suffix of the code, focusing only on user comments for context.
- D. Improves suggestions by considering both the prefix and suffix of the code, filling in the middle part more accurately.

Answer: D

Explanation:

"Fill-in-the-Middle (FIM) enables Copilot to consider both prefix and suffix code, generating more accurate suggestions for the missing middle portion." This makes option D correct, as it explains how FIM enhances suggestion accuracy.

References: GitHub Copilot model training and FIM technique documentation.

NEW QUESTION # 88

How long does GitHub retain Copilot data for Business and Enterprise? (Each correct answer presents part of the solution. Choose two.)

- A. User Engagement Data: Kept for One Year
- B. User Engagement Data: Kept for Two Years
- C. Prompts and Suggestions: Retained for 28 days
- D. Prompts and Suggestions: Not retained

Answer: B,C

Explanation:

For GitHub Copilot Business and Enterprise, prompts and suggestions are retained for 28 days to provide context and improve the service. User engagement data, which includes usage patterns and interactions, is kept for two years. This data retention policy is designed to balance service improvement with user privacy.

Reference: GitHub Copilot documentation on data privacy and retention policies for Business and Enterprise plans.

NEW QUESTION # 89

What are the potential risks associated with relying heavily on code generated from GitHub Copilot? (Each correct answer presents part of the solution. Choose two.)

- A. GitHub Copilot's suggestions may not always reflect best practices or the latest coding standards.
- B. GitHub Copilot may decrease developer velocity by requiring too much time in prompt engineering.
- C. GitHub Copilot may introduce security vulnerabilities by suggesting code with known exploits.
- D. GitHub Copilot may increase development lead time by providing irrelevant suggestions.

Answer: A,C

Explanation:

Heavy reliance on GitHub Copilot can introduce security vulnerabilities if the generated code contains known exploits. Additionally, Copilot's suggestions may not always align with best practices or the latest standards, requiring careful review and validation.

Reference: GitHub Copilot best practices and risk management.

NEW QUESTION # 90

Why is it important to ensure the security of the code used in Generative AI (Gen AI) tools?

- A. Ensuring code security enables the AI system to handle larger datasets effectively.
- B. Ensuring code security supports the development of more advanced AI features.
- C. Ensuring code security maintains the integrity of the AI system.
- D. Ensuring code security prevents unauthorized access and potential data breaches.

Answer: D

Explanation:

"Securing the code used with generative AI prevents unauthorized access, helps safeguard sensitive data, and protects against potential breaches." This confirms option A is correct because the primary importance lies in avoiding unauthorized access and breaches.

NEW QUESTION # 91

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