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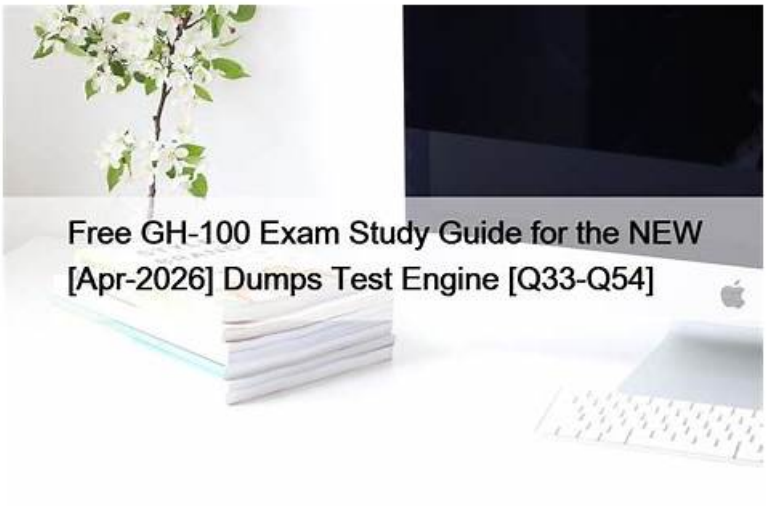

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Microsoft GH-600 Exam Syllabus Topics:

Section	Weight	Objectives
Topic 1: Perform evaluation, error analysis, and tuning	15-20%	- Evaluate agent performance • 1. Analyze scans, logs, and artifacts • 2. Measure outcomes and quality - Improve agent behavior • 1. Perform error analysis • 2. Tune prompts, tools, and configurations
Topic 2: Prepare agent architecture and SDLC processes	15-20%	- Define boundaries between planning, reasoning, and action • 1. Separate planning from execution • 2. Configure structured plans • 3. Validate and approve plans before execution - Integrate agents into the software development lifecycle • 1. Identify and mitigate agent anti-patterns • 2. Identify steps for agents to perform • 3. Define inputs, outputs, and success criteria - Configure observability and control • 1. Implement autonomy levels and guardrails • 2. Enable human intervention when required • 3. Generate inspectable artifacts

		- Ensure safe collaboration • 1. Coordinate execution across agents • 2. Prevent conflicts and unsafe actions
Topic 3: Orchestrate multi-agent coordination	15-20%	- Coordinate multiple agents • 1. Design multi-agent workflows • 2. Manage communication and task delegation - Control execution flow • 1. Recover from interruptions and failures • 2. Monitor execution lifecycle
Topic 4: Manage memory, state, and execution	10-15%	- Manage context and memory • 1. Maintain agent state • 2. Handle long-running execution - Manage execution environments • 1. Configure environments for agents • 2. Control access to resources and services
Topic 5: Implement tool use and environment interaction	20-25%	- Select and configure agent tools • 1. Identify required tools • 2. Configure tools and permissions - Implement governance controls • 1. Configure approval workflows • 2. Apply security and compliance requirements
Topic 6: Implement guardrails and accountability	10-15%	- Ensure accountability • 1. Track actions and decisions • 2. Establish human-in-the-loop processes

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Microsoft GitHub Agentic AI Developer Sample Questions (Q58-Q63):

NEW QUESTION # 58
You have a GitHub repository.
Developers use the GitHub Copilot CLI and repository-scoped hooks under .github/hooks/*.json.
You need to allow the Copilot CLI to automatically run low-risk Bash commands. The solution must prevent the autonomous execution of high-risk commands, such as sudo, rm -rf /, and curl ... | bash.
What should you do?

- A. Add .github/hooks/logs/ to .gitignore.
- B. Configure a sessionStart hook that prints a policy banner.
- C. Configure a preToolUse hook that returns permissionDecision: "deny".
- D. Configure a userPromptSubmitted hook that logs prompts and exits nonzero.

Answer: C

Explanation:
To safely restrict high-risk commands while allowing low-risk execution, you must configure a preToolUse hook that returns permissionDecision: "deny" when a restricted pattern is detected.
The preToolUse lifecycle hook executes immediately before GitHub Copilot CLI attempts to invoke any tool or execute a command. It evaluates the tool arguments and can programmatically intercept execution by writing a specific JSON payload to stdout. Returning
{"permissionDecision": "deny"} explicitly instructs Copilot CLI to block the autonomous execution of that command.
Reference:
https://code.visualstudio.com/docs/agent-customization/hooks

NEW QUESTION # 59
You have a private GitHub repository that has Copilot memory enabled.
Several developers who have write access to the repository make changes across multiple branches, including creating some pull requests that are later closed without merging.
Your team needs to understand how GitHub Copilot ensures that only task-relevant, up-to-date information influences code suggestions, even when older memories exist.
How does Copilot manage memories?

- A. Copilot stores memories per user, ensuring that only the developer who created a memory can trigger the memory in future sessions.
- B. Copilot stores memories indefinitely until a repository administrator deletes them manually.
- C. Copilot automatically blocks memory creation from pull requests that are closed without merging, to prevent outdated information from being stored.
- D. Copilot validates each memory's citations against the current branch before using the memory, and ignores the memory if the referenced code no longer exists.

Answer: D

Explanation:
GitHub Copilot Memory relies on a mechanism called just-in-time verification to ensure older or unmerged code changes do not pollute its code suggestions.
Reference:
https://docs.github.com/en/copilot/concepts/agents/copilot-memory

NEW QUESTION # 60
Case Study 1 - Contoso, Ltd
Overview
Contoso Ltd. is a software development company located in the United States.
Existing Environment
GitHub Environment
Contoso uses GitHub Enterprise and assigns GitHub Copilot Pro+ licenses to its developers. The developers use Microsoft Visual Studio Code as their IDE.
Contoso has a customer portal. The code for the portal is stored in a GitHub repository named repo1that contains the following:
- A custom agent named agent1 that includes instructions to review specs related to best practices
- A custom instruction file named validate-instructions.md that is used to validate tone of voice and applies to all .md and .txt files
- A custom instruction file named codereview.instructions.md that is used by the Copilot coding agent but is excluded for use by the Copilot code review repo1 has the following structure:
- The front-end is stored in the /frontend folder.
- The API logic is stored in the /api folder.
Contoso has a second repository named repo2 that contains a legacy .NET application named App1 built by using .NET 6. repo2 has a multi-agent workflow for modernization tasks.
Contoso enables the Model Context Protocol (MCP) registry and allows the Microsoft Learn MCP Server. Every developer must configure their own connection to the Learn MCP Server.
Problem Statements
The developers working in repo1 report that the Microsoft Learn documentation is NOT being retrieved when they attempt to validate a design by using agent1.

The testing team at Contoso identifies that the customer portal uses inconsistent UI styles, which leads to customer confusion and branding issues. The UI inconsistencies stem from variations in the folder structure.

Agent Logs

You have the following logs for the multi-agent workflow used in repo2.

```
26-03-20 13:32:46.828 [info] Fetched model metadata in 124ms e0c73fe9-b053-4d9b-a2c3-a34d25bda491
26-03-20 13:32:46.832 [info] ccreq:2b92362f.copilotmd | markdown
26-03-20 13:33:08.382 [info] [FolderRepositoryManager] Workspace isolation mode selected for session untitled-432b4bb1-1806-414e-b15e-e10575a945bb, skipping worktree creation
26-03-20 13:33:08.384 [info] [CopilotCLIMCPHandler] loadMcpConfig called. CLIMCPServerEnabled=false
26-03-20 13:33:08.481 [info] [CopilotCLISession] Passing 1 MCP server(s) to SDK: [github]
26-03-20 13:33:08.481 [info] [CopilotCLISession]   github: type=http
26-03-20 13:33:08.903 [info] Using Copilot CLI session: de04f0fe-4c01-4963-ae73-374e482eb771 (isNewSession: true, isolationEnabled: false, workingDirectory: file:///d%3A/git/code, worktreePath: undefined)
26-03-20 13:33:09.208 [info] [CopilotCLISession] Invoking session de04f0fe-4c01-4963-ae73-374e482eb771
26-03-20 13:33:09.209 [info] ccreq:e5987520.copilotmd | markdown
26-03-20 13:34:49.089 [info] message 0 returned. finish reason: [stop]
26-03-20 13:34:49.093 [info] request done: requestId: [8fac4c58-84fa-46d3-ba8f-2a5a61119df9] model deployment ID: []
26-03-20 13:34:49.095 [info] ccreq:e52a1868.copilotmd | success | gpt-4o-mini -> gpt-4o-mini-2024-07-18 | 606ms | [copilotLanguageModelWrapper]
26-03-20 13:34:49.765 [info] ccreq:9ffad198.copilotmd | markdown
26-03-20 13:35:04.476 [info] [FolderRepositoryManager] Workspace isolation mode selected for session untitled-e49b263e-a119-40af-93bc-0c7e5ff093cc, skipping worktree creation
26-03-20 13:35:04.477 [info] [CopilotCLIMCPHandler] loadMcpConfig called. CLIMCPServerEnabled=false
26-03-20 13:35:04.538 [info] [CopilotCLISession] Passing 1 MCP server(s) to SDK: [github]
26-03-20 13:35:04.538 [info] [CopilotCLISession]   github: type=http
26-03-20 13:35:04.847 [info] Using Copilot CLI session: 6852c5dc-ce11-4f86-85aa-d879812a12d0 (isNewSession: true, isolationEnabled: false, workingDirectory: file:///d%3A/git/code, worktreePath: undefined)
26-03-20 13:35:05.049 [info] [CopilotCLISession] Invoking session 6852c5dc-ce11-4f86-85aa-d879812a12d0
26-03-20 13:35:10.730 [info] ccreq:fb9aca1c.copilotmd | markdown
26-03-20 13:35:21.212 [info] message 0 returned. finish reason: [stop]
26-03-20 13:35:21.215 [info] request done: requestId: [6e4e18a3-6196-434b-84b3-a922530e822a] model deployment ID: []
26-03-20 13:35:21.217 [info] ccreq:75e978d7.copilotmd | success | gpt-4o-mini -> gpt-4o-mini-2024-07-18 | 618ms | [copilotLanguageModelWrapper]
26-03-20 13:35:31.473 [info] ccreq:76a9c1aa.copilotmd | markdown
26-03-20 13:35:31.859 [info] [CopilotCLIMCPHandler] loadMcpConfig called. CLIMCPServerEnabled=false
26-03-20 13:35:31.909 [info] [CopilotCLISession] Passing 1 MCP server(s) to SDK: [github]
26-03-20 13:35:31.909 [info] [CopilotCLISession]   github: type=http
26-03-20 13:35:32.223 [info] ccreq:adfc457f.copilotmd | markdown
26-03-20 13:35:32.518 [info] message 0 returned. finish reason: [stop]
26-03-20 13:35:32.522 [info] request done: requestId: [a10313c7-578e-42c2-a7d3-e755e76ccb64] model deployment ID: []
26-03-20 13:35:32.523 [info] ccreq:0fb9e216.copilotmd | success | gpt-4o-mini -> gpt-4o-mini-2024-07-18 | 457ms | [copilotLanguageModelWrapper]
26-03-20 13:35:32.634 [info] [CopilotCLIMCPHandler] loadMcpConfig called. CLIMCPServerEnabled=false
26-03-20 13:35:32.654 [info] [CopilotCLISession] Passing 1 MCP server(s) to SDK: [github]
```

Requirements

Planned Changes

Contoso plans to have all agents and developers in repo1use the Microsoft Learn MCP to ensure that reviews are validated by using the appropriate documentation. This must be implemented centrally.

Contoso plans to leverage AI-powered coding agents to implement new portal features and pages.

Technical Requirements

App1 must be upgraded to .NET 10. A previous upgrade attempt was started by using the Copilot modernization agent, but the attempt was never finalized.

You plan to retry the upgrade. You must first analyze App1 by using AI, and then generate a report that contains breaking changes and deprecated patterns before retrying the upgrade.

All AI-generated code for UI styling must adhere to a predefined folder structure.

The architects at Contoso need help building implementation plans for repo1. The company wants to implement a new agent named agent2 to analyze the code base and the code requirements, and then respond with a detailed plan. The agent must NOT be able to edit files or run local commands.

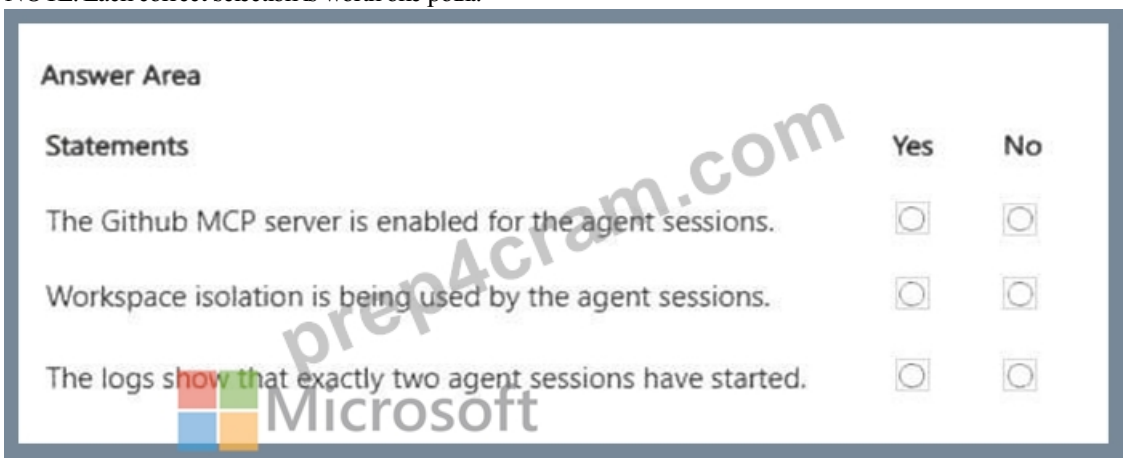
The developers must be able to delegate work to the Copilot coding agent by assigning issues to the agent.

Hotspot Question

You are evaluating the logs of the multi-agent workflow in repo2.

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.



Answer:

Explanation:

Explanation:
Box 1: No
Scenario: Note the line: [CopilotCLIMPCHandler] loadMcpConfig called.
CLIMCPServerEnabled=false
That log line indicates that the Model Context Protocol (MCP) server is disabled.
The log explicit parameter CLIMCPServerEnabled=false confirms that the GitHub Copilot CLI MCP handler loaded a configuration where the server functionality is turned off for that specific session.
Box 2: Yes
Scenario: Note the line: [FolderRepositoryManager] Workspace isolation mode selected for session utitle=xxxx, skipping worktree creation That log line confirms the agent session is running in workspace isolation. In this mode, the agent operates directly on the files in your current workspace and applies changes in place, eliminating the need to create a separate Git worktree for the session.
Box 3: Yes
Scenario: Note the two lines with [CopilotCLISession] Invoking session .., Every time you see that line with a new or unique session ID, it means a distinct agent session has been initiated.
New Sessions: When the log says [CopilotCLISession] Invoking session <ID> and assigns a brand-new GUID, it is spinning up a fresh environment with a new workspace isolation state and conversation history.
Reference:
https://github.com/anomalyco/opencode/issues/8990
https://www.kenmuse.com/blog/workspace-vs-worktree-isolation-in-copilot-cli/
https://code.visualstudio.com/learn/foundations/agent-sessions-and-where-agents-run

NEW QUESTION # 61
Your team wants Copilot's suggestions to reflect knowledge of internal library APIs that are not publicly documented and not present in the codebase being edited. What is the most appropriate solution?

- A. Enable plan mode
- B. Use .copilotignore to hide public APIs
- C. Add the internal docs as copilot-instructions.md
- D. Connect an MCP server that exposes the internal documentation

Answer: D

Explanation:
For external or large sets of documentation not resident in the repo, an MCP server can expose a searchable knowledge source Copilot can query dynamically, rather than trying to cram everything into static instruction files.

NEW QUESTION # 62
You need Copilot's coding agent to interact with an external ticketing system (e.g., Jira) so it can pull issue details as part of its workflow. What should you configure?

- A. An MCP server
- B. A branch protection ruleset
- C. A .copilotignore rule
- D. A CODEOWNERS entry

Answer: A

Explanation:
Model Context Protocol (MCP) servers extend an agent's capabilities by connecting it to external tools and data sources, such as

ticketing systems, databases, or internal APIs, in a standardized way.

NEW QUESTION # 63

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