

Linux Foundation MCPA

Linux Foundation Model Context Protocol Associate

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Question: 1

Without a shared standard, connecting M AI applications to N tools tends to require on the order of $M \times N$ custom integrations.

How does an ecosystem-wide protocol like MCP change that integration cost?

- A. It keeps the cost at $M \times N$ but makes each integration easier to write.
- B. It shifts effort toward roughly $M + N$, since each side implements the standard once.
- C. It increases the cost to $M \times N \times 2$ because both sides must be adapted.
- D. It removes the need for any integration work at either the application side or the tool side.

Answer: B

Question: 2

Consider the two main roles in the MCP ecosystem: those who build servers and those who build hosts. Which pairing correctly matches each role to what it typically builds?

- A. The protocol maintainers build all servers and hosts centrally.
- B. End users build both the servers and the hosts for every integration.
- C. Tool and data providers build servers, while AI-application vendors build hosts.
- D. AI-application vendors build servers, while tool and data providers build hosts.

Answer: C

Question: 3

After a security incident, an organization cannot determine which MCP tools were invoked, by whom, or with what arguments during the affected window.

Which governance weakness does this reveal?

- A. The tools had each been carefully scoped according to the principle of least privilege.
- B. The host happened to communicate with the server over a local stdio transport.
- C. The servers were configured to use OAuth authorization instead of static API keys for callers.
- D. Missing audit logging of tool invocations and their arguments.

Answer: D

Question: 4

Which of the following are realistic MCP use cases for connecting an assistant to enterprise systems? (Select all that apply.)

- A. Letting the assistant pull records from a CRM to answer account questions
- B. Letting the assistant create or update tickets in an issue tracker
- C. Physically rewiring the company's on-premises network switches and cabling
- D. Letting the assistant search a knowledge-base wiki to ground its answers

Answer: A,B,D

Question: 5

A host connects to a remote MCP server that requested and received full read-write access to the user's entire file storage, even though the only feature in use lists file names in one folder. Months later the server operator is breached.

Why does the original permission decision make this breach worse than it needed to be?

- A. Because full access somehow forces the server to fall back to a local stdio transport instead of HTTP.
- B. The breach only really matters because audit logging happened to be enabled and dutifully recorded every one of the accesses.
- C. A compromised token can read and alter all of the user's files, far beyond the single list-only feature that was used.
- D. Because requesting broad scopes causes the issued OAuth tokens to never expire, keeping them valid indefinitely.

Answer: C

Question: 6

Two client-facing capabilities both involve reaching outside the server, but for different reasons: one obtains generated text from the host's model, the other obtains an answer from the person using the application.

Which pairing correctly matches the capability to what it obtains?

- A. Sampling obtains generated text from the host's model; elicitation obtains an answer from the user
- B. Sampling obtains an answer from the user, while elicitation obtains generated text from the host's model
- C. Both sampling and elicitation obtain generated text from the host's model
- D. Both sampling and elicitation obtain an answer directly from the user

Answer: A

Question: 7

Midway through handling a client request, a server determines it needs one more piece of information from the user, such as which of two accounts to act on.

Which client-facing capability is designed for this?

- A. Roots, which lets the server learn the filesystem directory boundaries it may use
- B. A list-changed notification, which tells the client an offered list has changed
- C. Sampling, which lets the server obtain a language-model completion from the host
- D. Elicitation, which lets the server request more input from the user.

Answer: D

Question: 8

A client has just connected to an unfamiliar MCP server and wants to work with what it offers, following the discover-then-use pattern.

What must the client do first?

- A. Immediately invoke the tool it expects to exist and handle the error if it does not.
- B. Ask the server to enumerate its available tools, resources, and prompts first.
- C. Select a prompt on the user's behalf and run it without asking the user first.
- D. Write a new resource to the server in order to register the connecting client.

Answer: B

Question: 9

When a server issues a sampling request, the host typically pauses to let the user review the prompt and the generated result before either is used.

Why is this human-in-the-loop step built into sampling?

- A. Because the protocol forbids servers from ever receiving any generated text from the model
- B. Because the server needs the user to supply the model's API credentials for each call
- C. Because the language model cannot produce output unless a human types part of the prompt
- D. So the user keeps oversight over what the server asks the model and receives

Answer: D

Question: 10

While answering a question about today's weather, the model decides on its own that it needs live conditions and invokes a function the server exposes for that purpose.

What is happening, in terms of control?

- A. The model is invoking a tool, the model-controlled primitive for fetching live data.
- B. The host is loading a resource, since live weather counts as external data.
- C. The user is controlling a prompt simply by asking the model about the current weather.
- D. The server is autonomously running a prompt in order to answer the user's question.

Answer: A

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