

Arcade

URL Elicitation deep dive

Third-party OAuth solved (and more!)

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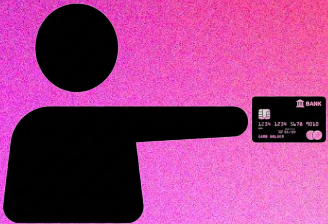
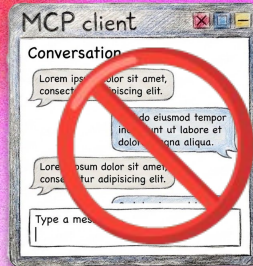
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URL Elicitation gives MCP servers a safe way to cross trust boundaries.

Some interactions are too sensitive to be chat messages.

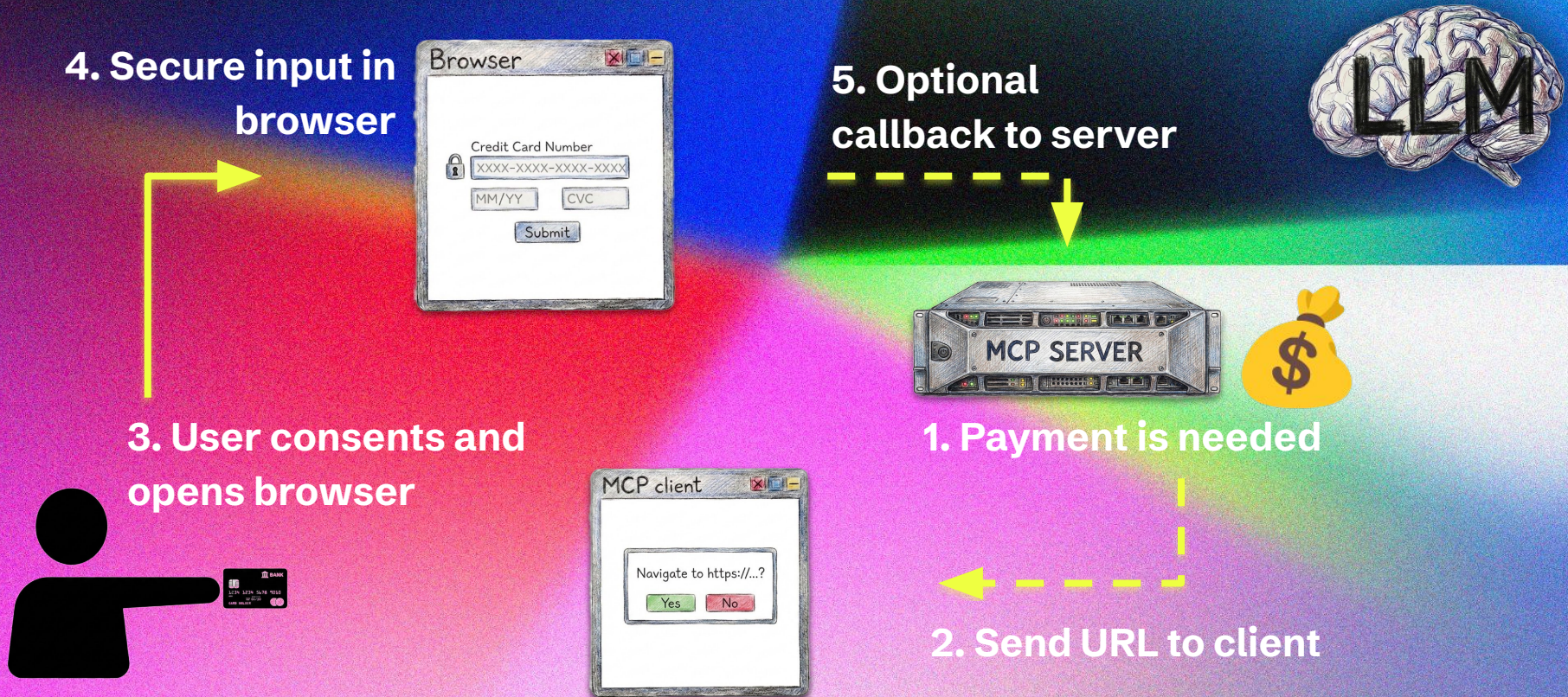
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Scenario: Ask for payment



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Scenario: Ask for payment



URL Elicitation for sensitive input

- ✓ Server may send a URL to the client at any time, or in response to an action like a tool call
- ✓ Client must get consent from end-user to open browser
- ✓ User interaction is **out of band**, never exposed to the client or LLM

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What about external OAuth?

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Scenario: External API with OAuth

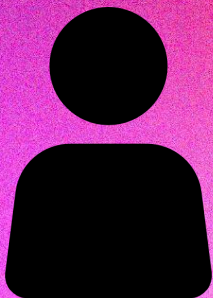
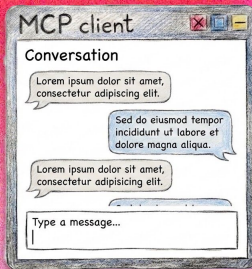
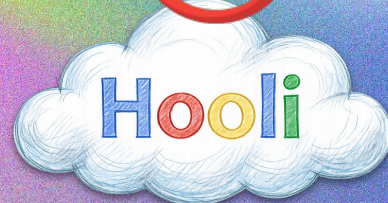
Model decides to call a tool



Tool call with MCP
server token



~~Token reuse~~



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Scenario: External API with OAuth

Model decides to call a tool



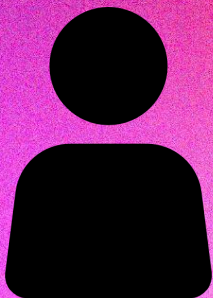
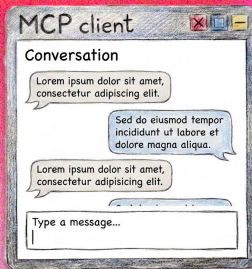
Tool call with external service token



Token passthrough



Get a token for the external service



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Scenario: External API with OAuth



Two trust boundaries

MCP client <> MCP server

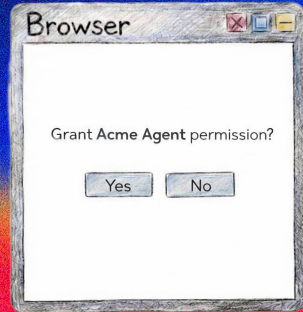
MCP server <> external service

**The MCP server is not a
magical tunnel!**

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Scenario: External API with OAuth

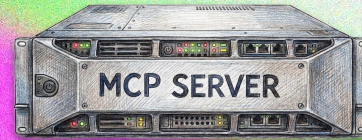
4. Authorization in browser



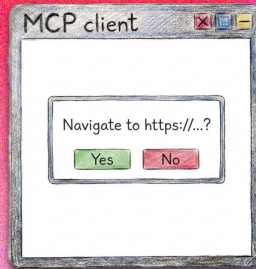
5. Navigate to external service



6. Callback to MCP server



3. User consents and opens browser



1. External auth req'd

2. Send URL to client



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Scenario: External API with OAuth

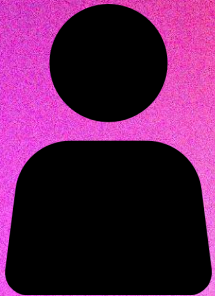
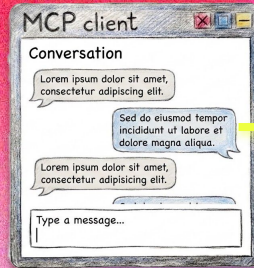
1. Model decides to call a tool



2. Tool call with MCP server token



3. API call with external service token



URL Elicitation for external auth

- ✓ Plugs into the existing world of browser-based OAuth
- ✓ Correct trust boundary: MCP client has **only one** token, for the MCP server
- ✓ User interaction is **out of band**, never exposed to the client or LLM

Key takeaways

- URL Elicitation gives MCP servers a way to trigger user interaction (a URL)
- User interaction occurs **out of band** of the client, LLM, and chat context
- Useful for payments and sensitive inputs like API keys
- Useful for preserving the **trust boundary** between the MCP server and an external OAuth API

Thank you
Questions or comments?

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