

Agents have an Identity Crisis !

The state of Auth in MCP and Agentic AI



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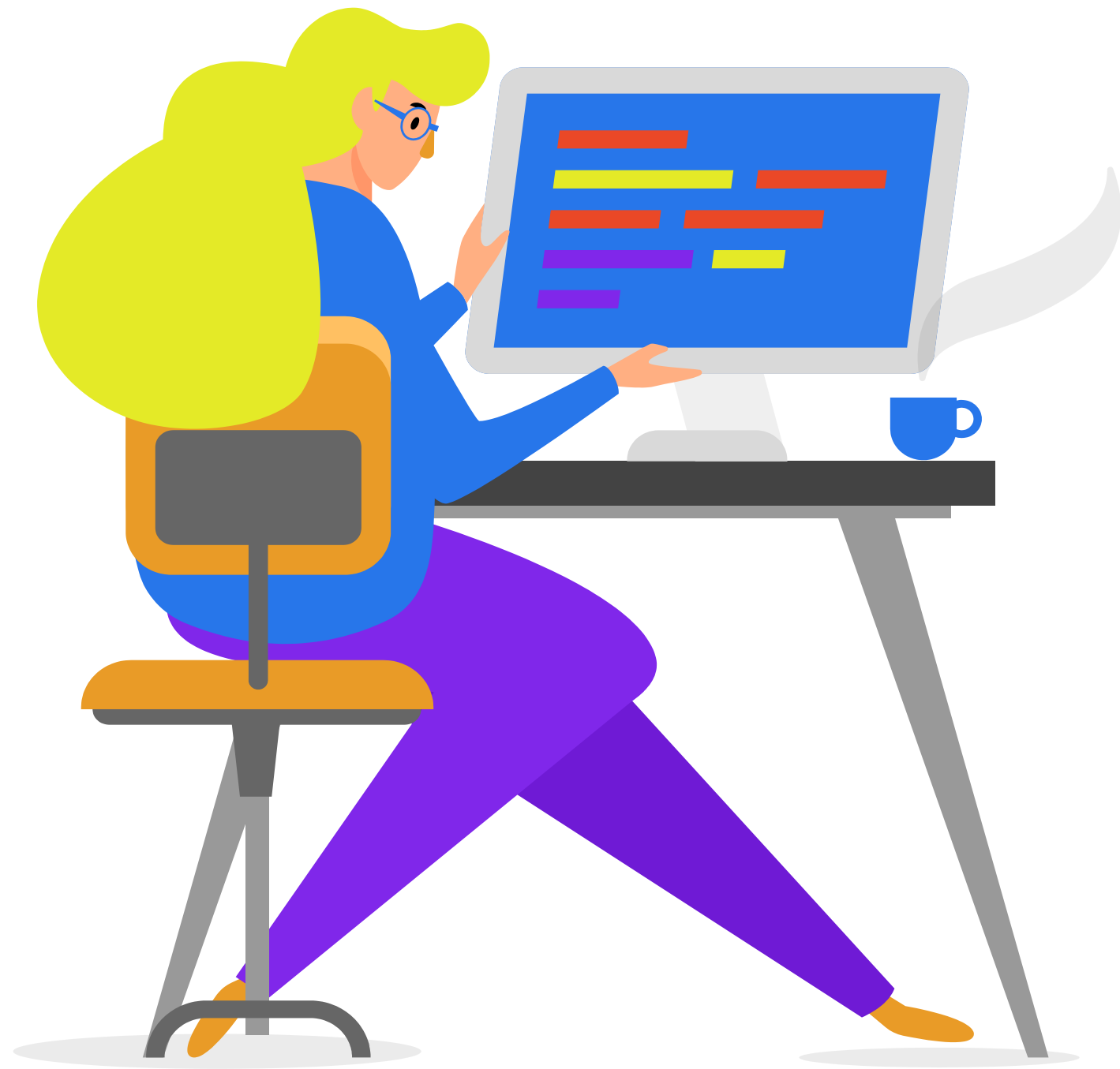
Agenda

1 History

3 Gaps

2 Frameworks

4 Standards



Who this is for ?

- You are putting agents in front of real APIs
- You have (or will have) an MCP server on the internet
- You care what your (audit) logs say at 2 a.m. 😭



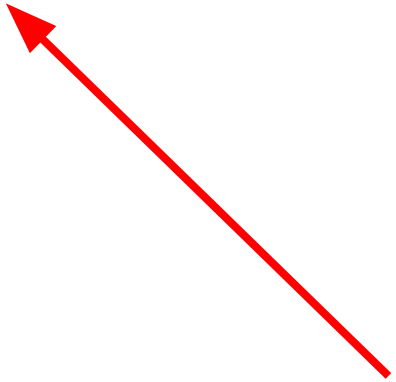
When no human was in the loop, who authorized what ?

OAuth was designed around a human sitting in front of a browser, clicking “Allow”.

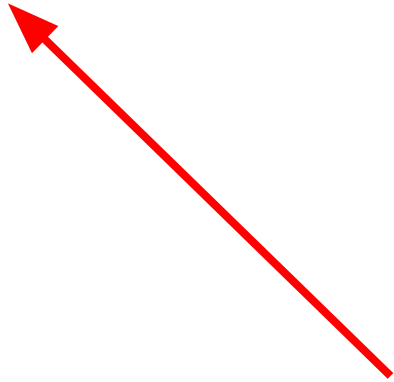
Agentic systems break that assumption in three places at once:

1. The actor is often a **machine**.
2. The action is often **chosen by a model**, not a user click.
3. The call path is often multi-hop:

user → orchestrator → agent → MCP server → downstream SaaS.



Auth happened here !



Travelled all the way
back till here !

Three identities, one Authorization header !

Badge	Answers	Typical credential
User	Who is this for?	OIDC ID token / 3LO access token
Agent	Which program is acting?	Agent ID, SPIFFE ID, client_id
Workload	Which process holds the key?	Service account, mTLS, SPIFFE SVID

A year ago, MCP had no login !

It started on your laptop. No login.

Trust = You started the process.

Then people put it on the internet.

What showed up overnight:

- API keys pasted in Slack
- Tokens stuffed into tool arguments - so the model could see, log and leak
- Every team invented a different schema

The fix was “log in like a website”.

However, that still left a hole: a token for the **notes** app could open **payroll**, because nobody checked which door the token was for.



Three Rules. This is the floor.

1. **Do not run your own login page:**
 - a. Use the org's identity provider.
 - b. The MCP server only checks the token.
2. **A token is for one door:** Notes app != Payroll app
3. **Do not forward the user's token:** Get a new, narrower one.



The MCP server is a **deputy**. Deputies need their own, smaller keys.

User token → MCP → same token → GitHub (example)

User token → MCP → new token (GitHub only) → GitHub

✗ WRONG

✓ RIGHT

MCP fixed the first hop. Not the rest.

Fixed

- Did not invent a custom login
- Token is for one server
- Do not pass the token through
- Ask for more permission later

Not fixed

- Robots with no browser
- Identity through a chain of agents
- Who allowed the model's choice

MCP is now a decent **user** → **one server** login.
It is not yet **agent authorization**.

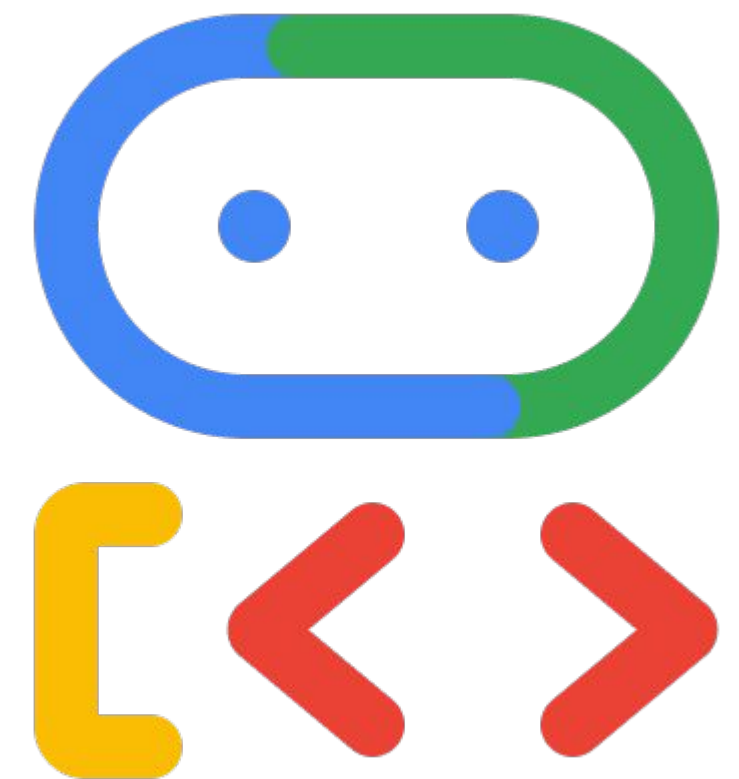


**Your agent framework is already an identity system.
It just may not know it !**



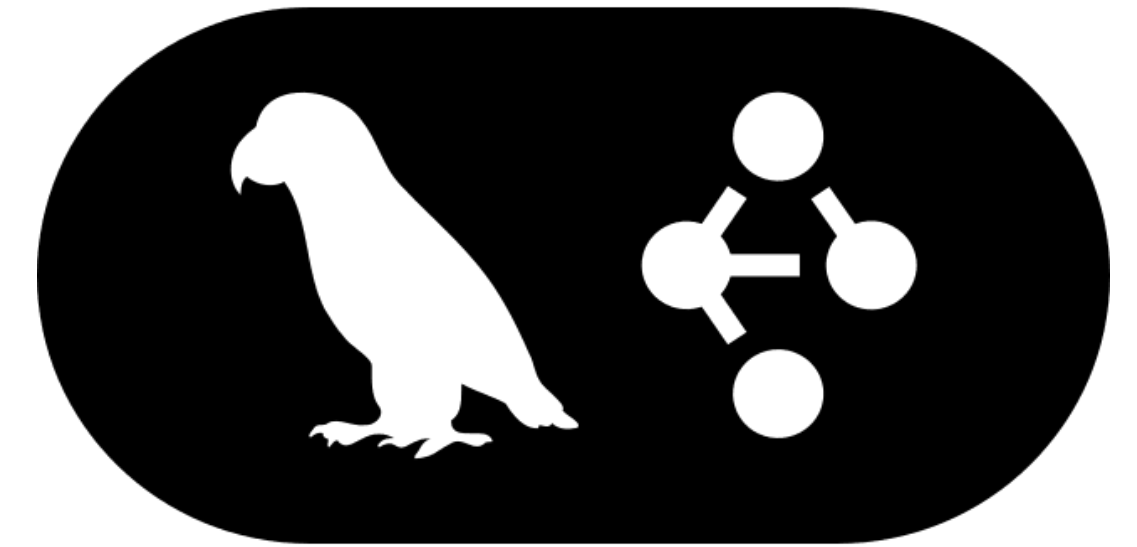
Google ADK: the agent is a person in IAM

- Each agent gets its **own ID**, tied to its lifetime
- You write permissions on **that ID**, not on a shared bot user.
- A **vault** holds tokens. Tools never see secrets.
- Human path: pause → browser Allow → resume
- Robot path: the **agent** is the caller. Nobody clicks allow.



LangGraph: who hit the API?

- Two layers:
 - Who is calling the graph?
 - Which conversations may they see?
- Checks the caller on every request
 - Isolate **threads** so Alice cannot read Bob's chat
 - Without that: every user looks like **the developer's** API key
- Strong at **user isolation of chats**.
- Silent on how tools get tokens unless you add it.
- Robot path: the **agent** is the caller. Nobody clicks allow.



LangChain: bind the token to this user and this bot!

- First use: login in the browser
- Mid-run: **pause**, show Allow, resume
- Stored token is scoped to **this person + this assistant**
- Agent A does not inherit Agent B's GitHub, Slack, ... and other apps



**The Gaps: The hard problems are not “add login”.
You already did that !**



Gap 1: nobody is at the browser

MCP login assumes a human can **click Allow**.

Production is full of callers that cannot:

- A cron job that runs at 2 a.m.
- CI that opens PRs
- One agent calling another over HTTP etc.

What teams do instead (all bad):

- Bake a **person's** refresh token into the job
- Share a static API key
- Mint one god-mode token
- Pretend a robot is a user in the directory etc.

There is no standard answer for “this agent, this task, this long, no human”.



Gap 2: the token forgets the story

User (Alice)

└ Orchestrator

└ Research agent → docs

└ Finance agent → ledger → ERP

At every hop you must choose:

- Forward the user's token? **Unsafe.**
- Mint a new one? **For whom? Which API?**
- Remember who acted? Usually nobody writes that down.

By the time ERP sees the call, it often looks like a robot admin.
Alice is gone. The finance agent is gone.



Gap 3: When no human was in the loop, who authorized what?

What was the consent ?

- Was it given **earlier**, for a **vaguer** job, to a **different** program OR
- given by a **developer** who pasted a key OR
- **never given** !?!

A model choosing something is not a user clicking Allow.

If you treat them as the same event, your audit logs are nothing but fiction.

The order of the Pain that you will have to bear ! 🤔

1. Tokens in prompts, traces and debug dumps
2. One token reused on **many** servers
3. Mid-run the bot needs more permissions - and you lose the graph
4. n server calls, n tokens, n refresh races
5. A sub-agent spends the **parent's** keys
6. Logs name the HTTP caller, not the **tool the model picked**
7. Alice left the company. Which vaults still have her Slack token ?

What to ship and standardize ?

Identity: log **user**, **agent** and **machine** on every line.

Tokens:

- MCP server does not run login. One token, **one door**. Never forward.
- New token for downstream (GitHub / ERP etc.). Smaller than the last one.
- Vault holds secrets. The model never sees them.

Consent:

- Human: start small, ask again for more.
- No Human: **policy + approval + short-lived task tokens**.
Not Alice's leftover login.

Audit: User, agent, which API, which tool, yes/no
More logs are always better !

RFC cheat sheet (for the backend crowd)

RFC / draft

OAuth 2.1

RFC 7636 PKCE

RFC 8414

RFC 9728

RFC 8707

RFC 6750

RFC 8693

RFC 7523

RFC 7591 DCR

CIMD

SEP-835

SEP-990 EMA

Role in this talk

Baseline. PKCE required. No implicit.

Bind the code to the client that started the flow.

Authorization Server Metadata

Protected Resource Metadata — how clients find the AS

Resource indicators — aud binding

Bearer challenges; insufficient_scope

Token exchange; act claim

JWT bearer grant (EMA's second hop)

Legacy client registration

Client ID = HTTPS metadata URL

Step-up / incremental consent

Enterprise IdP as policy brain

Thank you!

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QnA