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Multi-Agent Madness: Demystifying the Architecture of Salesforce Agentforce + A2A + MCP

4 min read · Jul 10, 2025



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In my [last post](#), I briefly wrote about how we can invoke CRUD operations on Salesforce objects via Google Gemini. In this post, I dig deeper into the exploring the architecture of what Agentforce, combined with A2A (Agent-to-Agent) protocols & MCP (Multi-Agent Collaboration Protocol) support looks like.

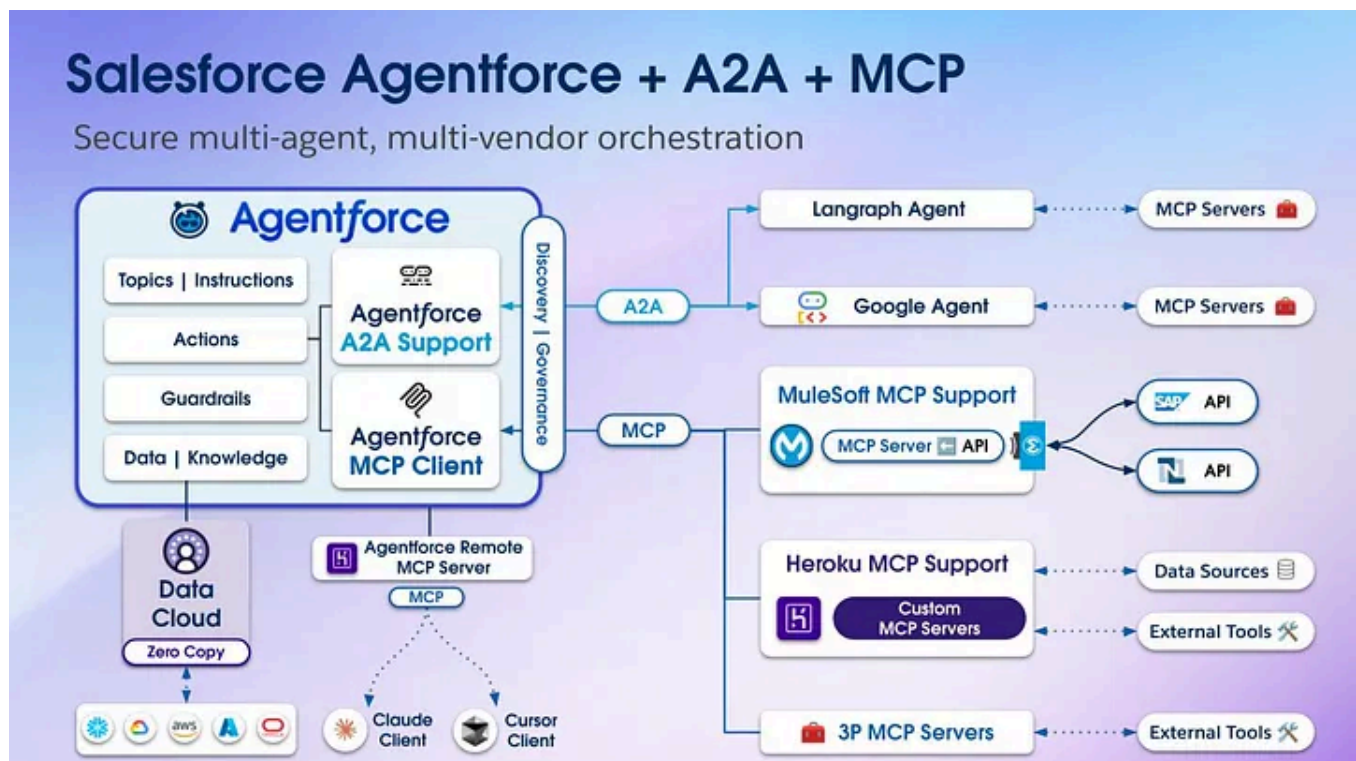


Image from Salesforce

So, first things first, let's start off with some basics.

What Exactly Is Agentforce?

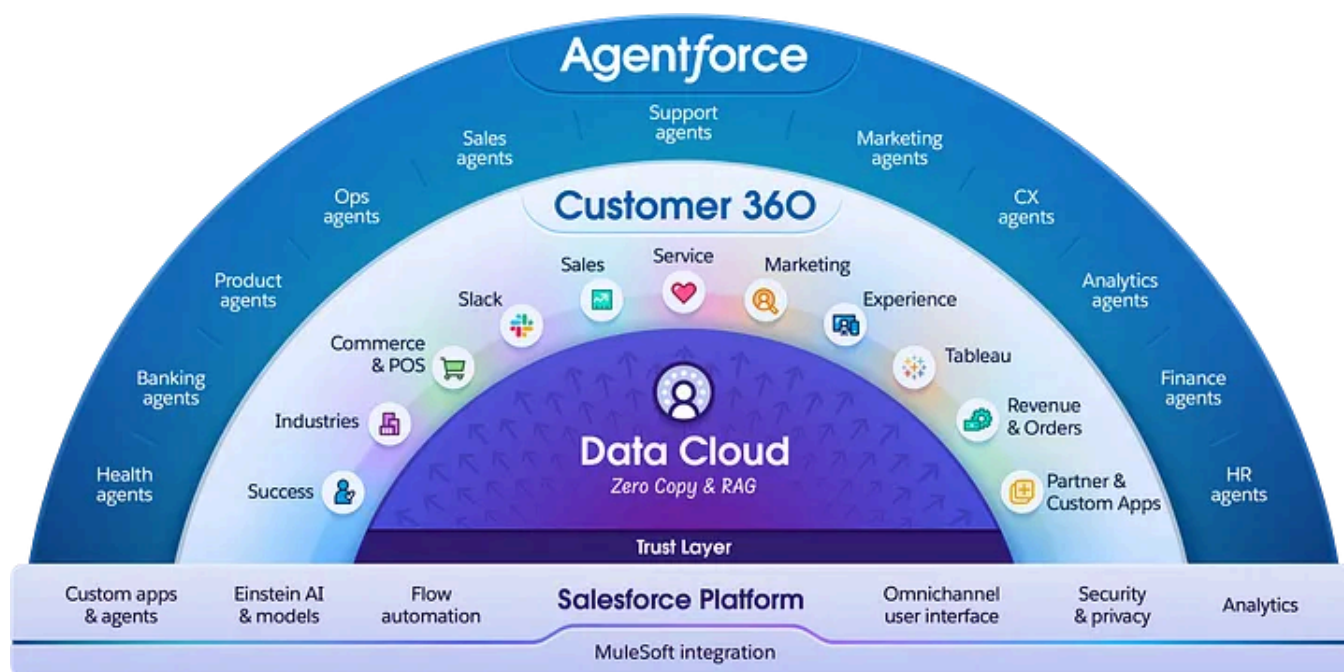


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At its core, Agentforce is Salesforce's AI orchestration layer — kind of like the brain that coordinates:

- What tasks agents should do (topics & instructions)
- How they do them (actions & guardrails)
- And what they're working with (data & knowledge)
- The true power of Agentforce is that it's deeply connected with Salesforce Data Cloud — meaning we're not copying or duplicating data. It's all **zero-copy**. Data stays where it is, and Agentforce sends the intelligence to it.

A2A — Standardising Agent to Agent Communication

So, how does Agentforce talk to other Agents — for example, a ServiceNow support agent or a SAP inventory agent? Enter A2A — I can now have Agentforce talk directly to a Google Agent, a Langgraph Agent, or any other LLM-powered tool using the A2A protocol.

Image from Google

MCP — Deeper, Smarter Integrations

Now, when I need to connect to enterprise systems — like SAP, NetSuite, or internal APIs — that's where MCP (Multi-Agent Collaboration Protocol) comes in.

Agentforce acts as an MCP client, and connects to:

- MuleSoft MCP Servers — to talk to APIs via standard integration patterns
- Heroku MCP Servers — for custom logic, external tools, or data sources
- Even 3rd-party MCP Servers — giving us full flexibility across the ecosystem

This lets me build secure agent workflows that talk to literally anything: legacy systems, new APIs, or even AI-driven endpoints.

Image from Anthropic

How does it all come together?

What truly excites me about this architecture is its openness. It's not a walled garden. We designed it to be an ecosystem.

- **Third-Party Agents:** The ability to plug in agents like Langgraph Agent or Google Agent is a game-changer. I don't have to build everything myself. I can bring in best-in-class agents for specialized tasks and have them collaborate seamlessly with my own.
- **Integration with MuleSoft:** This is where we bridge the gap between AI and our core business systems. Through MuleSoft MCP Support, I can empower an agent to interact with an SAP API or other legacy systems. This turns AI from an analytical tool into a "doer" that can execute real business processes.

Image from MuleSoft

- Customization with Heroku: For unique challenges, I need flexibility. Heroku MCP Support gives my team the power to build and deploy Custom MCP Servers. This lets us connect to any number of proprietary Data Sources or External Tools, making the possibilities virtually limitless.

Image from Heroku

Governance

With such a heterogeneous architecture, Governance is key here or else it will truly be multi-agent madness :) — That's why I'm glad Salesforce built **Governance & Discovery** into the fabric of this architecture:

- I can define what an agent can see, access, or do
- Set guardrails so nothing goes rogue
- And track every step of the agent orchestration lifecycle

Challenges

While on paper this looks powerful and I'm still wrapping my head around getting a working proof of concept for this, there's definitely a lot of challenges to be considered.

While powerful, this architecture introduces significant challenges that require careful consideration:

- **Technical Complexity:** Managing and debugging a process that hops between multiple agents, platforms (like MuleSoft and Heroku), and vendors is incredibly complex. Identifying the root cause of failures or performance bottlenecks in this distributed system is a major hurdle.
- **Security and Governance Risks:** The open, multi-vendor nature expands the system's attack surface. Enforcing your internal safety "Guardrails" on third-party agents is difficult, and securely managing data and permissions as they are passed between different vendors creates significant security and privacy challenges.
- **Ecosystem Adoption:** The success of the A2A and MCP protocols depends on widespread adoption by all agent vendors. Without a critical mass of participants adhering to this standard, the promised interoperability will not materialize.
- **Operational Overhead and Cost:** Managing the costs, contracts, updates, and potential breaking changes from numerous different vendors creates a high operational burden. A simple update to one agent could require re-testing the entire workflow, increasing maintenance complexity and costs.

Despite all the challenges and the fact that it's still early days in the world of Multi-Agent orchestrations, I believe this will well and truly be the future of Agentic AI.

More on this from yours truly in the next post!

Signing off,

Agent Gaurav :-}



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Bgerby

What are your thoughts?



Abhishek Simgekar

Jul 10



Great read. 🙌

Thank you for sharing.

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Suchit Tripathy
Sep 7



very informative article Gaurav. Thanks for sharing this. Please let us know once you have a workable POC, using A2A and MCP with AgentForce.

Thanks

Suchit

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