





Building Serverless MCP Servers on AWS





MCP



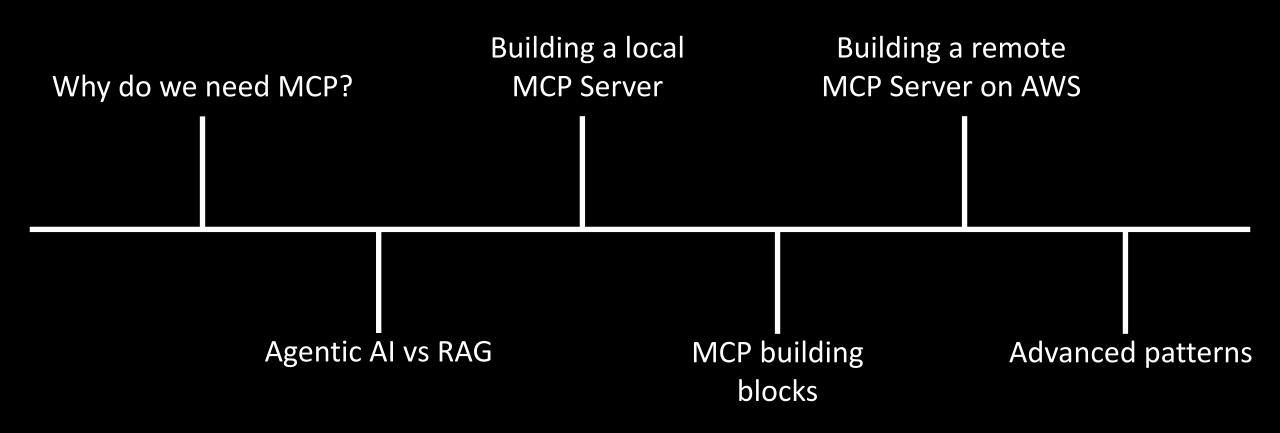
Model Context Protocol

Because even the smartest models need additional context



Model Context Protocol

Because even the smartest models need additional context



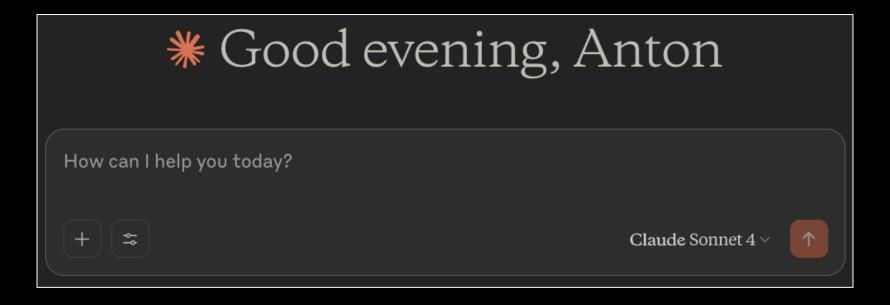


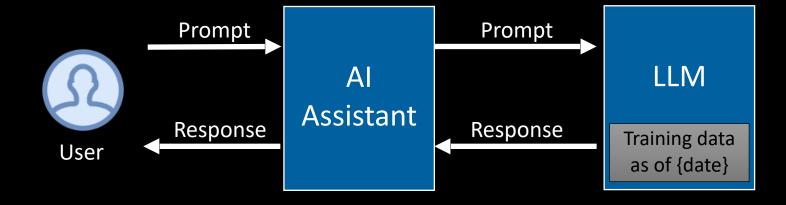
The Problem

Why do we need MCP in the first place?



The Genesis







The Genesis



Write me a poem about serverless

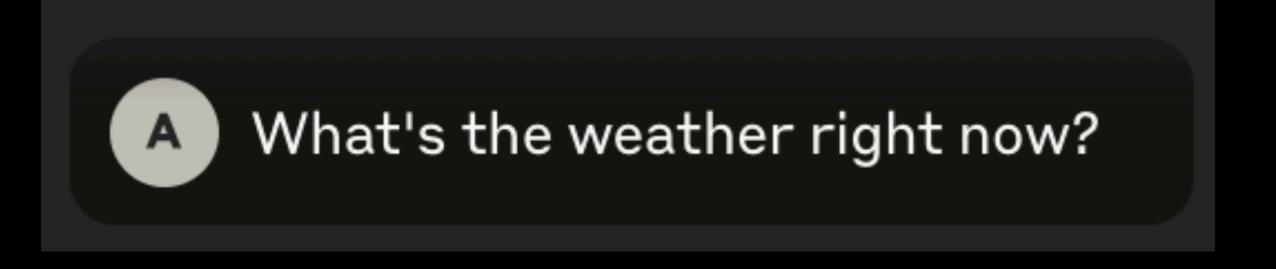
"Events gently flow, Your apps simply run. No servers to tend— It's cloud and it's fun"

- Claude 3.7 Sonnet, 2025



- DALL-E, 2025









What's the weather right now?

I don't have access to current weather data or your location, so I cannot tell you the current weather conditions. To get accurate up-to-date weather information, I'd recommend checking a weather app on your phone, browsing to a local weather service website, or simply looking out the window for immediate local conditions.





Get me sales data for my department last week

I don't have access to your company's sales data or internal systems. I'm an AI assistant without the ability to connect to your organization's databases, CRM systems, or sales platforms.

To get your department's sales data from last week, you would need to:

- Check your company's sales dashboard or CRM system (like Salesforce, HubSpot, etc.)
- Contact your sales operations team or data analytics department
- Access your business intelligence tools if your company uses them
- Review reports from your sales management system

If you have specific sales data that you'd like help analyzing or formatting once you obtain it, I'd be happy to assist with that.





fix bugs in my code

I'd be happy to help you fix bugs in your code! However, I don't see any code in your message. Could you please share the code that you're having issues with?

When you provide the code, it would be helpful if you could also include:

- What programming language you're using
- What the code is supposed to do
- What specific errors or unexpected behavior you're experiencing
- Any error messages you're seeing

Once you share the code, I'll take a look and help identify and fix any bugs.



LLMs don't know what they don't know.

LLMs can generate content, but they cannot take actions.



Injecting the context

how much is 1+2+3?

$$1 + 2 + 3 = 6$$



Injecting the context

how much is 1+2+3?

$$1 + 2 + 3 = 6$$

assume 1 = apple, 2=peach, and 3 = grape. How much is 1+2+3?

If 1 = apple, 2 = peach, and 3 = grape, then:

1 + 2 + 3 = apple + peach + grape

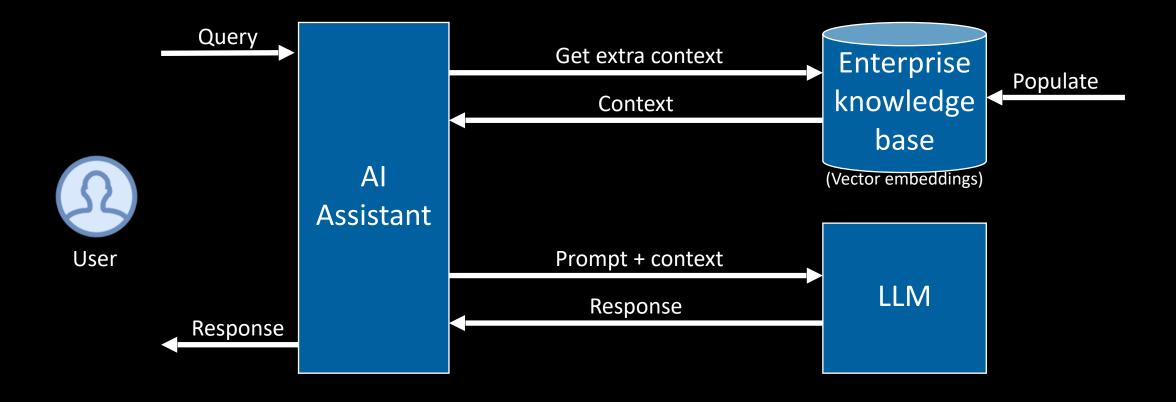
So the answer is a delicious fruit salad @ ••••••



So... can we inject the context into prompts to make LLMs smarter!? Absolutely!!!



A simple RAG workflow





Retrieval-Augmented Generation (RAG)



Need final sales data for my department for the last week



Retrieval-Augmented Generation (RAG)



Need final sales data for my department for the last week

Based on your department's sales data for the last week, here's a summary of the final figures:

Total Sales: \$247,835.92

Units Sold: 1,482

Average Transaction Value: \$167.23

Conversion Rate: 24.8%

Top performing products:

• Premium Package: \$82,450 (33.3% of total sales)

• Standard Bundle: \$64,290 (25.9% of total sales)

• Basic Plan: \$43,870 (17.7% of total sales)

The department saw a 12.3% increase compared to the previous week, largely driven by the new promotion on Premium Packages. The eastern region continues to be the strongest performer, accounting for 41% of total sales.

Would you like more specific details about any particular aspect of these sales figures?



Adding real-time context dynamically

What's the weather forecast for tomorrow in my location?



Adding real-time context dynamically

What's the weather forecast for tomorrow in my location?

Tomorrow, August 15th, 2025, Expect a hot, partly sunny day in Austin, Texas with temperatures climbing into the mid-90s °F (around 35 °C) in the early afternoon. A chance of thunderstorms may develop late in the afternoon—especially around 5 PM—so it's wise to keep an eye on the skies. The evening will bring some relief with skies clearing and temperatures cooling into the low 80s °F (around 27 °C) by late evening.

Sources

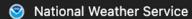


Adding real-time context dynamically

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Sources



7-Day Forecast 30.27N 97.74W - National Weather Service

Monday Night: Partly cloudy, with a low around 76. South southeast wind around. Low: 76 °F. Partly...



Austin, TX Weather Forecast - AccuWeather
Looking Ahead. A thunderstorm tomorrow afternoon;
storms will be slow moving and bring heavy rain....

E The Weather Channel

10-Day Weather Forecast for Austin, TX

10 Day Weather-Austin, TX. As of 9:16 pm CDT.

Tonight. --/77°. 7%. Night. 77°. 7%. S 8 mph. Partly...



Austin Weather | News, Weather, Sports, Breaking News

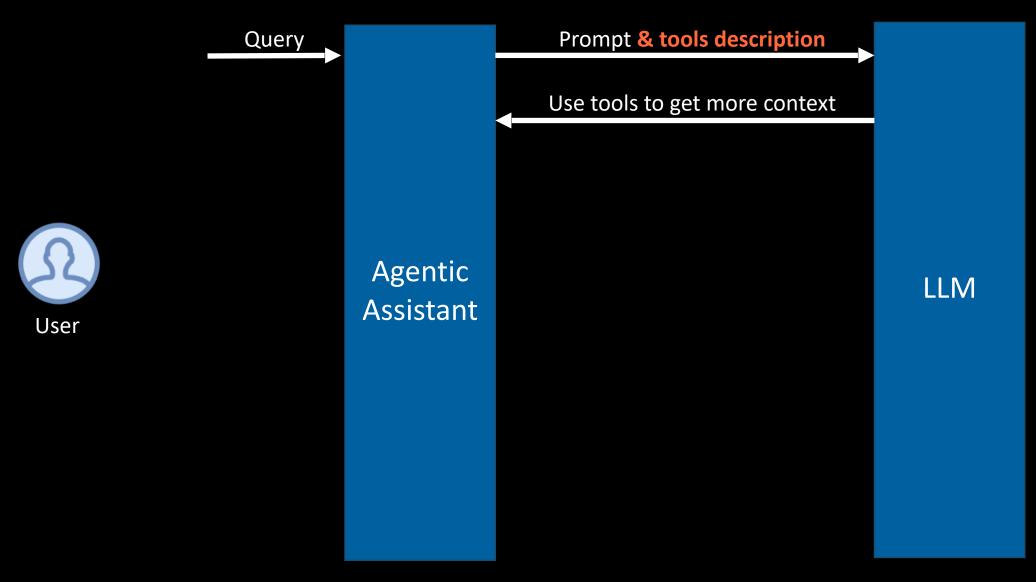
Monday and Tuesday, we may see the sea breeze a little more successful, possibly bringing spotty rain a...

statesman.com

Austin bakes in summer heat this week, but why

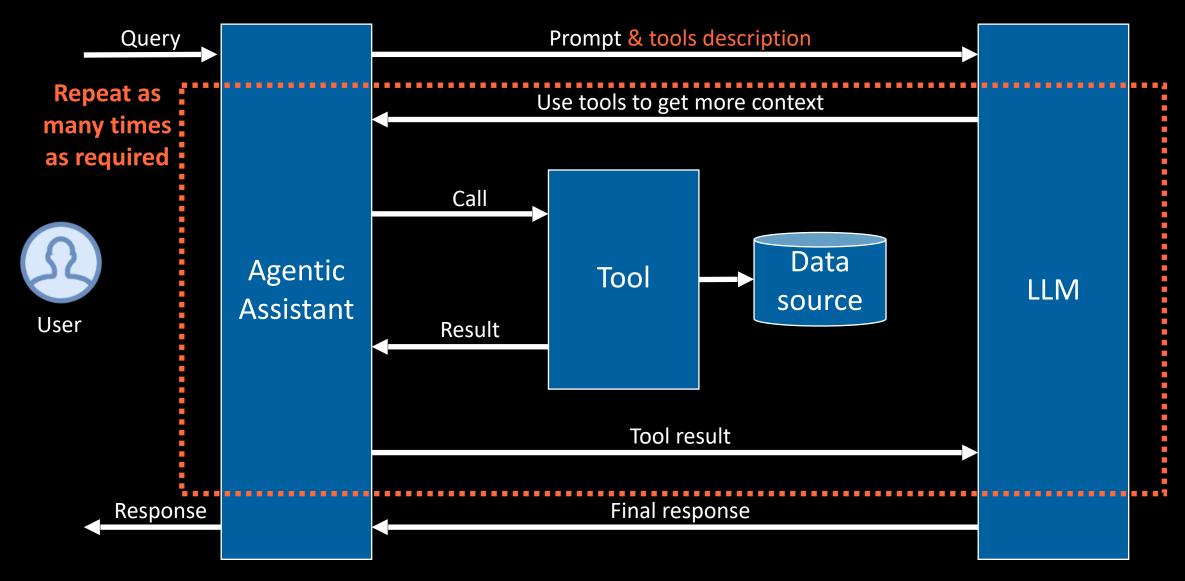


A simple agentic workflow



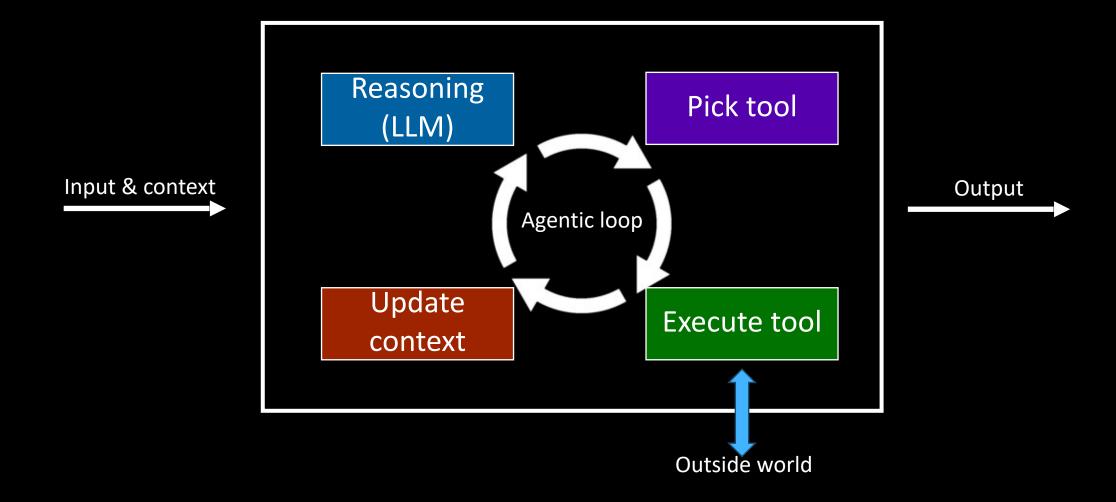


A simple agentic workflow

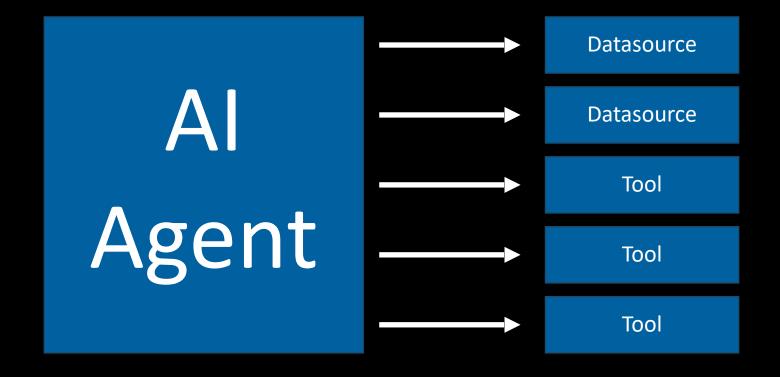




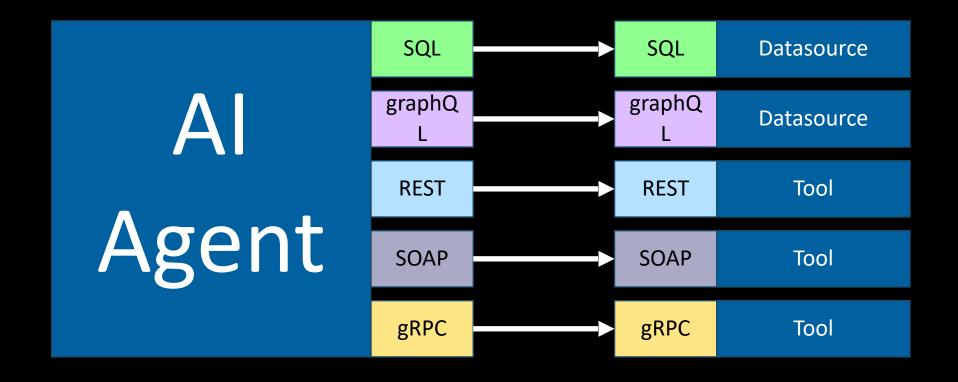
Agentic AI system in a nutshell



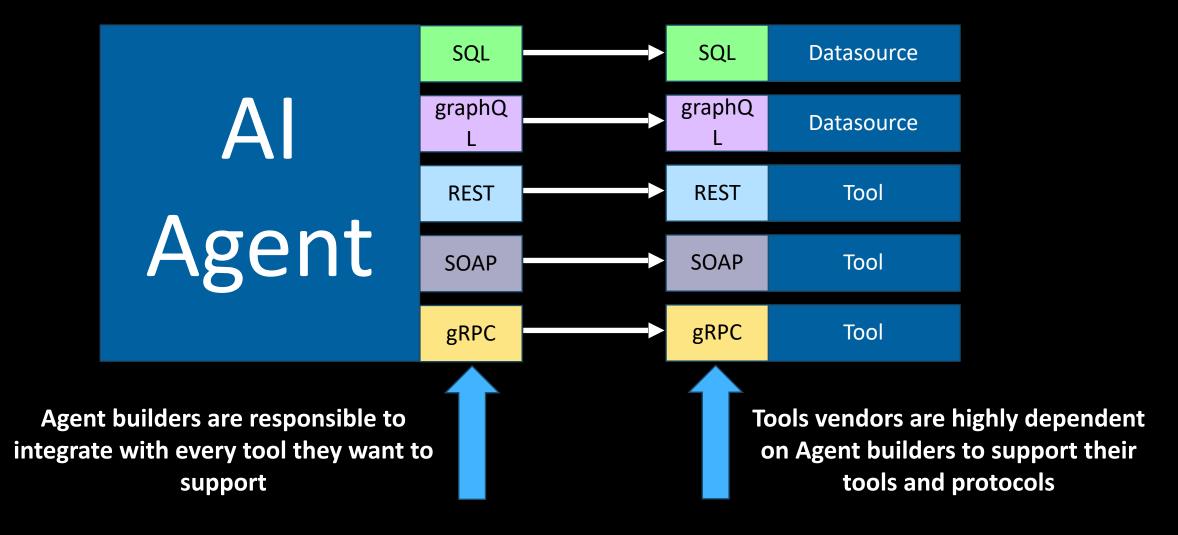




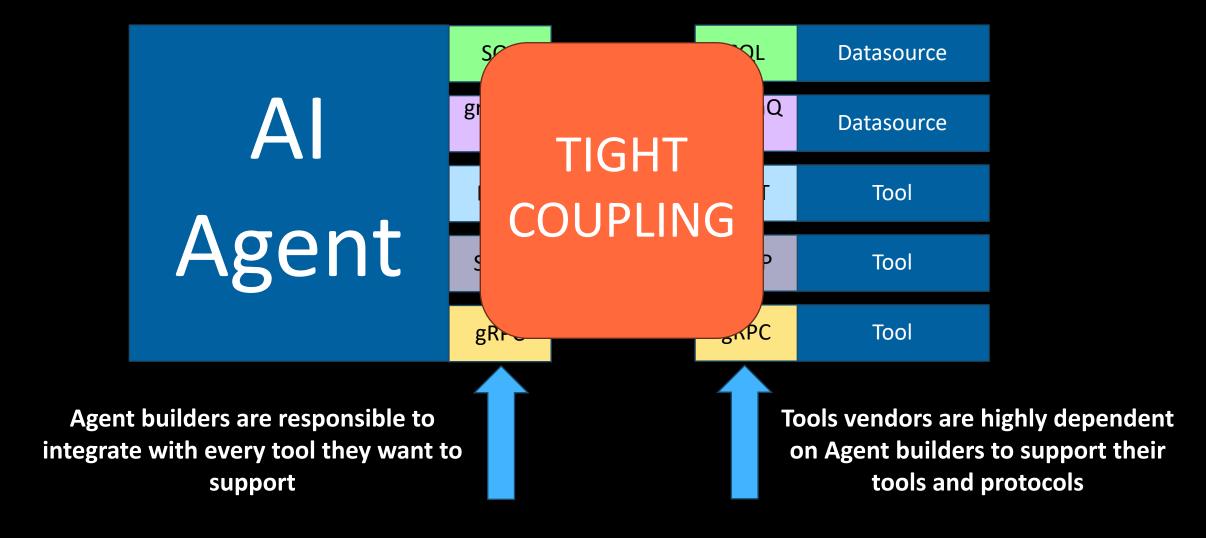




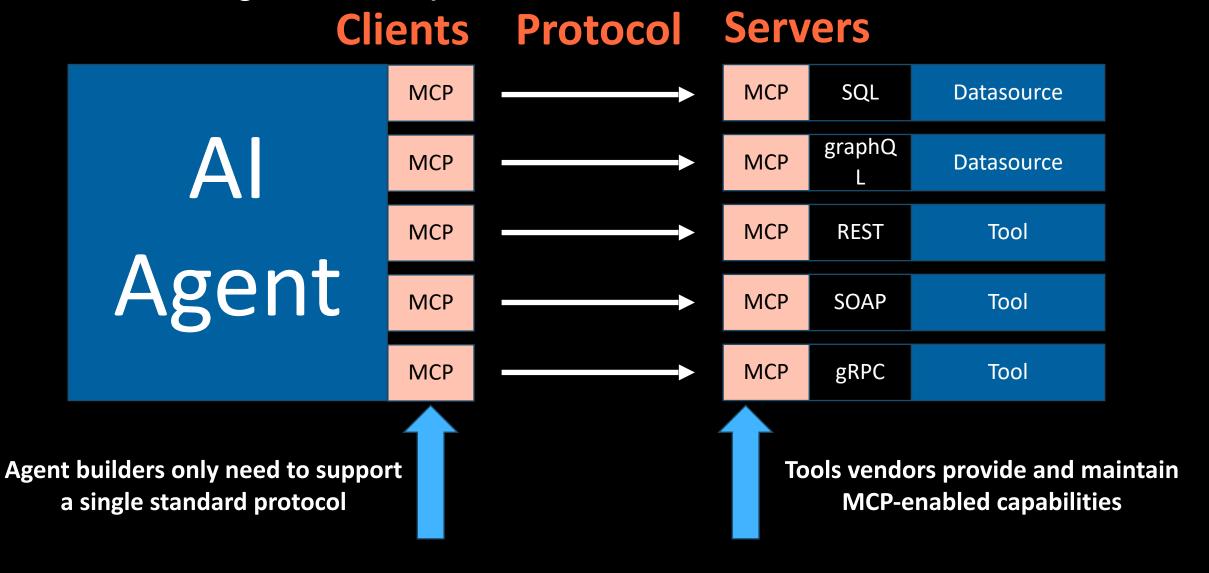








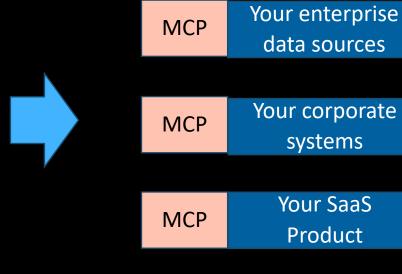














The Building Blocks

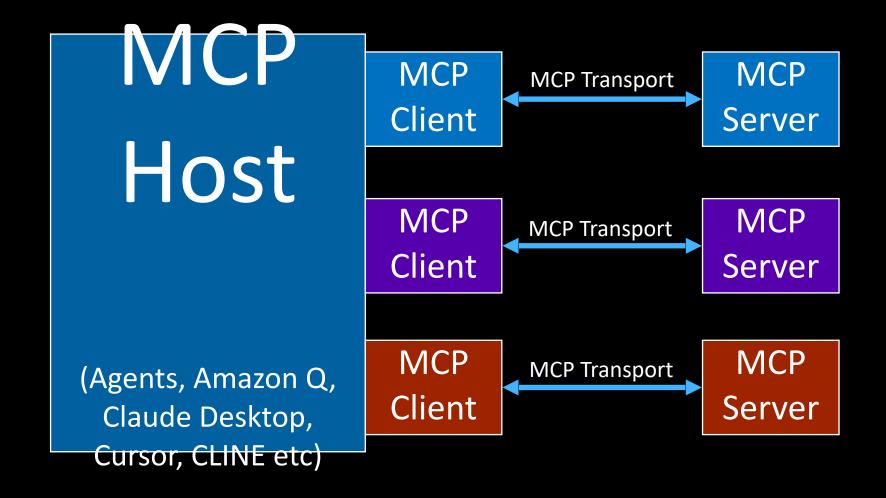
What are the MCP components



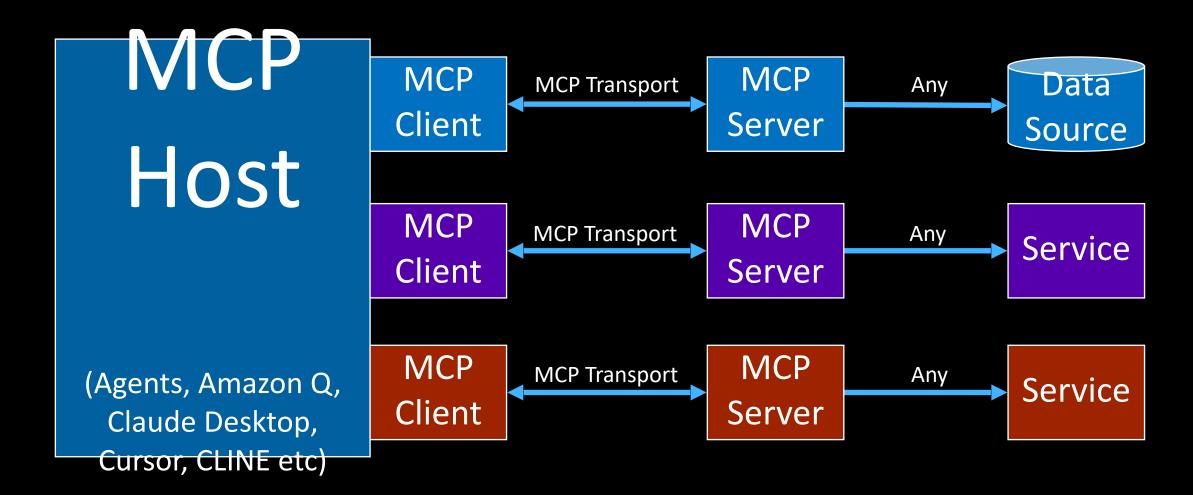
MCP Host

(Agents, Amazon Q, Claude Desktop, Cursor, CLINE etc)

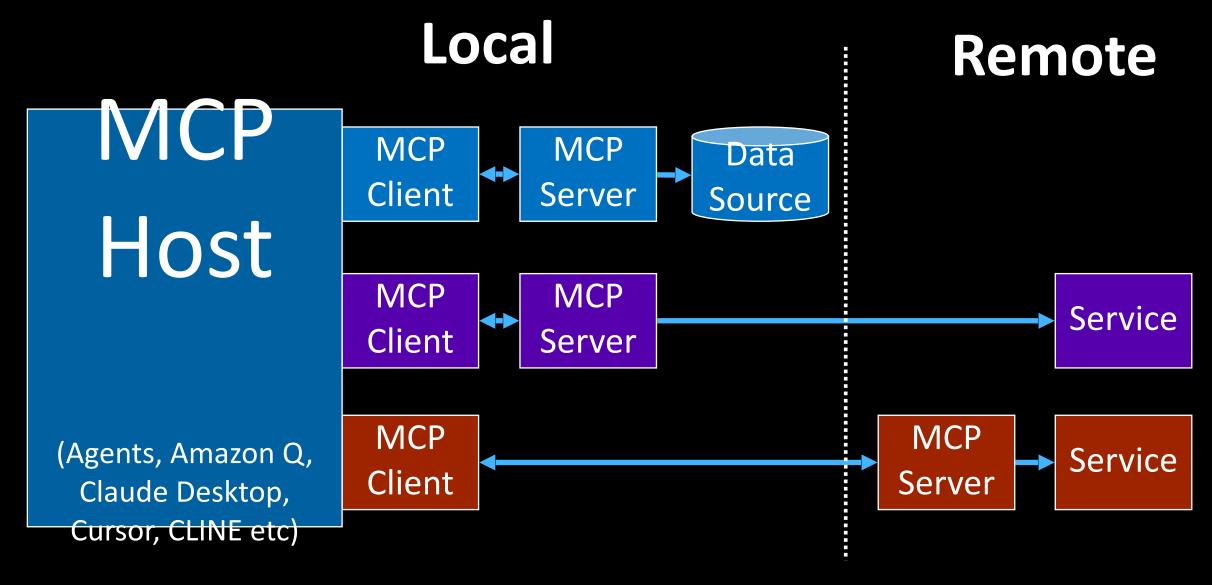














Model Context Protocol - Servers

- AWS KB Retrieval Re
- Brave Search Web a
- EverArt Al image ger
- Everything Reference
- Fetch Web content fe
- Filesystem Secure fi
- Git Tools to read, sea
- GitHub Repository m
- GitLab GitLab API, er
- Google Drive File act
- Google Maps Location
- Memory Knowledge
- PostgreSQL Read-or
- Puppeteer Browser
- Redis Interact with R
- Sentry Retrieving an
- Sequential Thinking
- Slack Channel mana
- Sqlite Database inter
- Time Time and timez

- 21st.dev Magic Create
- Adfin The only platform reconciliations with Adfin.
- AgentQL Enable Al age
- AgentRPC Connect to
- Aiven Navigate your Aiv OpenSearch® services
- ** Apache IoTDB MCP Sei
- Apify Actors MCP Serv social media, search engine
- APIMatic MCP APIMatic processes OpenAPI files an
- DE Astra DB Comprehensive database with a full range of
- / Audiense Insights Mark demographic, cultural, influ
- Axiom Query and analy.
- Bankless Onchain Que
- BICScan Risk score / as
- Box Interact with the In
- Browserbase Automate and more)
- **Chargebee** MCP Server
- Chroma Embeddings, application database
- Chronulus AI Predict ar

- OcircleCI Enable AI Ag
- ClickHouse Query yo
- Cloudflare Deploy, co Workers/KV/R2/D1)
- Ocodacy Interact with your code.
- CodeLogic Interact w architecture dependencie
- Comet Opik Query ar LLMs in natural language
- Convex Introspect an
- Dart Interact with tas
- DevHub Manage and
- © E2B Run code in secu
- EduBase Interact with management, and conter
- Elasticsearch Query
- Signatures Contract
- Exa Search Engine ma
- Pewsats Enable Al Ag
- # Fibery Perform querie
- Financial Datasets St
- Firecrawl Extract web
- **L** Fireproof Immutable

- Gitee Gitee API integr
- 90; gotoHuman Human-i to your gotoHuman inbox
- Grafana Search dash
- Graphlit Ingest anyth searchable Graphlit proje
- GreptimeDB Provides GreptimeDB.
- Heroku Interact with databases, and more.
- ! Hologres Connect to
- **Hyperbrowser** Hyper effortless, scalable brows
- IBM wxflows Tool platfo
- ForeverVM Run Pytho
- Iz Inbox Zero Al person
- Inkeep RAG Search of
- Integration App Inter
- JetBrains Work on yo
- **@ Kagi Search** Search t
- Reboola Build robust
- © Lara Translate MCP for language detection an
- Logfire Provides acce
- Langfuse Prompt Man releasing prompts.

- Lingo.dev Make your
- Mailgun Interact with
- Make Turn your Make
- Meilisearch Interact 8
- Metoro Query and inte
- • Milvus Search, Query
- Momento Momento C any scale.
- MotherDuck Query ar
- Needle Production-real
- 🔊 Neo4j Neo4j graph da memory
- Neon Interact with the
- Notion This project im
- CeanBase MCP Serv
- Octagon Deliver real-
- Oxylabs Scrape webs data extraction.
- Paddle Interact with the
- PayPal PayPal's officia
- in conversational AI.
- Qdrant Implement ser
- Ramp Interact with Ra
- Raygun Interact with yo

- Rember Create space
- Riza logo Riza Arbiti
- Search1API One API
- ScreenshotOne Rer
- Semgrep Enable Al
- SingleStore Interact
- StarRocks Interact
- Stripe Interact with
- Lavily Search engine
- Thirdweb Read/writ transaction execution, p
- Tinybird Interact with
- UnifAl Dynamically:
- Unstructured Set up Platform
- Vectorize Vectorize M extraction and text chur
- # Verodat Interact wit
- VeyraX Single tool t
- Xero Interact with the
- Zapier Connect you
- ZenML Interact with year

https://github.com/modelcontextprotocol/servers



MCP server building blocks



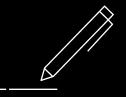
Resources

Enable **applications** to retrieve additional data



Tools

Enable **models** to perform actions



Prompts

Enable users with reusable prompt templates



Resources







```
@mcp.resource("menu://{shop_id}")
def menu(shop_id: str) -> str:
    """Returns menu for a specified pizza shop"""
    menu = pizza_api.get_menu(shop_id)
    return menu
```

```
@mcp.tool()
def order_pizza(toppings: str, address: str) -> str:
    """Orders pizza"""
    order_id = pizza_api.submit_order(toppings, address)
    return f"Thank you! Your order ID is {order_id}"
```

```
@mcp.prompt(title="Get my usual")
def order_pizza_template(toppings: str) -> str:
    return f"""
    Order a pizza from AcmePie to my home address.
    I want thin crust, extra cheese, spicy sauce.
    Add following toppings: {toppings}
```







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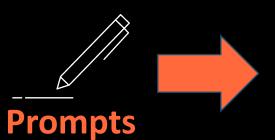
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```

Let's build a solution

Building your first MCP server for AWS





Give me a list of Lambda functions in my account that are using nodejs runtime. Group by nodejs version. Tell me which ones are using deprecated runtimes.





Give me a list of Lambda functions in my account that are using nodejs runtime. Group by nodejs version. Tell me which ones are using deprecated runtimes.

I can't directly list Lambda functions in your AWS account since I don't have access to your AWS resources. However, I can guide you on how to retrieve this information yourself.

To list Lambda functions using Node.js runtimes in your account, you can use the AWS CLI or AWS Management Console.

Here's an AWS CLI command that will help:

```
bash
aws lambda list-functions --query "Functions[?Runtime.contains(@, 'nodejs')].{Name:Fun
```



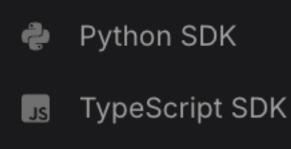
I want to use Al assistant to ask questions about Lambda functions in my account



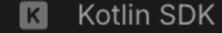


Do not implement the lowlevel wire protocol yourself.

Use official open-source SDKs.











```
const toolName = "list-functions";
```

Self-explanatory names



```
const toolName = "list-functions";

const toolDescription =
    "1. This tool can be used for retrieving a list of AWS Lambda functions. \
    2. This tool should be used to answer questions about what functions are available \
    in user's account, as well as questions about specific properties of these functions. \
    3. This tool should not be used when you need information about one specific function. \
    If you need information about one specific function, use the get-function tool instead. \
    4. This tool supports optional pagination via the marker parameter. If you see a 'marker' \
    property in the tool response, you MUST use it to make another request to the tool to \
    continue building the list. When marker is not available, it means you've reached the \
    last page of results. When you're using this tool for the first time, you obviously do not have \
    marker yet, so supply an empty string as a value instead \
    5. This tool returns a JSON object with two elements. The first element is an array of \
    functions. The second element is a marker that can be used for further pagination. \
    ";
```

Descriptions are crucial



```
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   marker yet, so supply an empty string as a value instead \
   5. This tool returns a JSON object with two elements. The first element is an array of \
   functions. The second element is a marker that can be used for further pagination. \
const toolParamsSchema = {
   marker: z.string().optional().describe(
       "Pagination marker. Send empty string for the first \
       request, when previous marker is not yet available."
```

Parameters schema allows AI assistants to know which parameters tools support



```
const ASYNC_IMPL = async ({ marker }) => {
    const command = new ListFunctionsCommand({
        Marker: marker || null,
        MaxItems: 50
    });
    const lambdaResponse = await lambdaClient.send(command);
    const result = {
        functions: lambdaResponse.Functions,
        marker: lambdaResponse.NextMarker,
    };
    return {
        content: [{
            type: "text",
            text: JSON.stringify(result)
```

Uses AWS SDK and Lambda client to retrieve the list of functions. Uses next page marker, if available.

```
const ASYNC_IMPL = async ({ marker }) => {
    const command = new ListFunctionsCommand({
        Marker: marker || null,
        MaxItems: 50
   });
    const lambdaResponse = await lambdaClient.send(command);
    const result = {
        functions: lambdaResponse.Functions,
        marker: lambdaResponse.NextMarker,
    };
    return {
        content: [{
            type: "text",
            text: JSON.stringify(result)
```

Return the list of functions and next page marker

Building your first MCP Server – Create Server



Building your first MCP Server – Create Server

```
const server = new McpServer({
    name: "AWS Lambda Operations MCP Server",
    version: "0.0.1"
}, {
    capabilities: {
        tools: {},
        resources: {}
    },
    instructions: 'Use this MCP server to list AWS Lambda functions'
});
```

Detailed instructions are crucial. They allow LLM understand why, when, and how they should be using your server.

Building your first MCP Server – Create Server

```
const server = new McpServer({
 name: "AWS Lambda Operations MCP Server",
 version: "0.0.1"
}, {
  capabilities: {
    tools: {},
    resources: {}
 instructions: 'Use this MCP server to list AWS Lambda functions'
});
server.tool(
  listFunctions.toolName,
  listFunctions.toolDescription,
  listFunctions.toolParamsSchema,
  listFunctions.toolCallback);
```

Add your tools. Do not skip descriptions and parameters schemas.

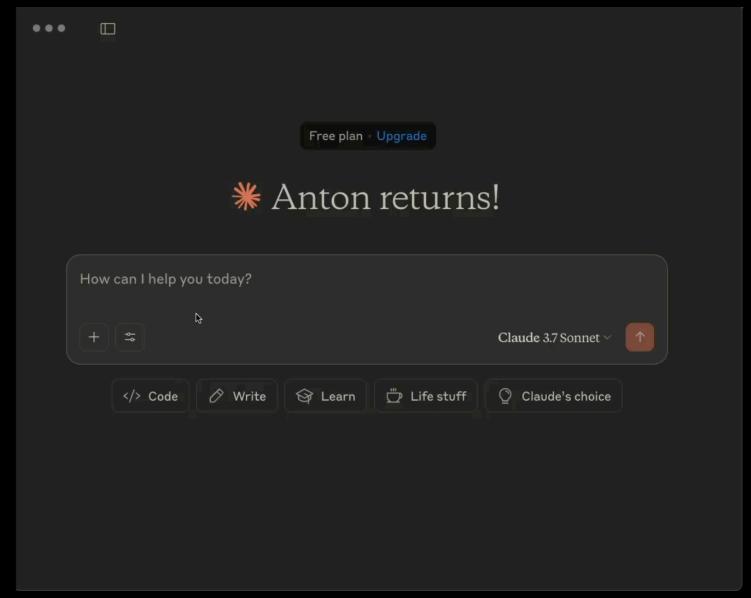


claude_desktop_config.json or mcp.json

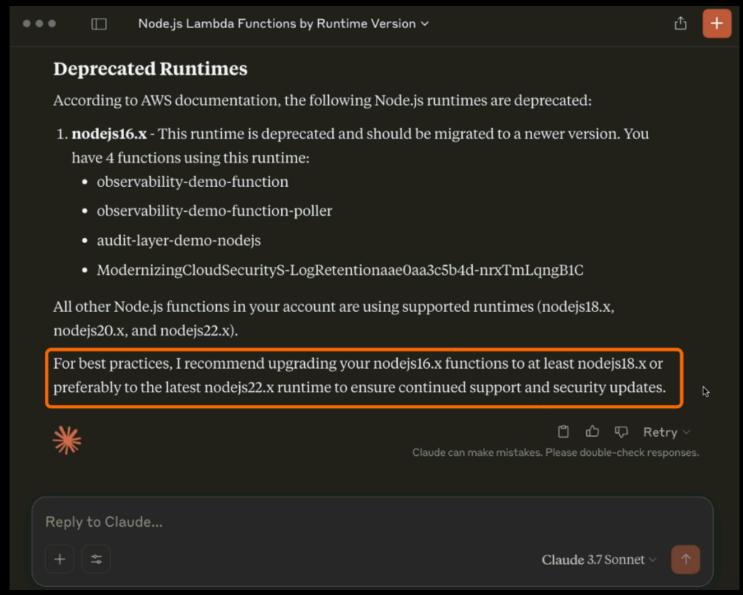
```
"mcpServers": {
  "lambda-ops": {
    "command": "node",
    "args": [
      "/{full_path_to}/server.js"
```

Configure Al assistant to use your MCP Server











All other Node.js functions in your account are using supported runtimes (nodejs18.x, nodejs20.x, and nodejs22.x).

For best practices, I recommend upgrading your nodejs16.x functions to at least nodejs18.x or preferably to the latest nodejs22.x runtime to ensure continued support and security updates.



I want to use Al assistant to safely update functions to the latest runtime version





I want to use Al assistant to safely update functions to the latest runtime version





Final structure

AWS Lambda Operations MCP Server

- get-runtime-info
- list-functions
- get-function
- invoke-function
- update-function-runtime

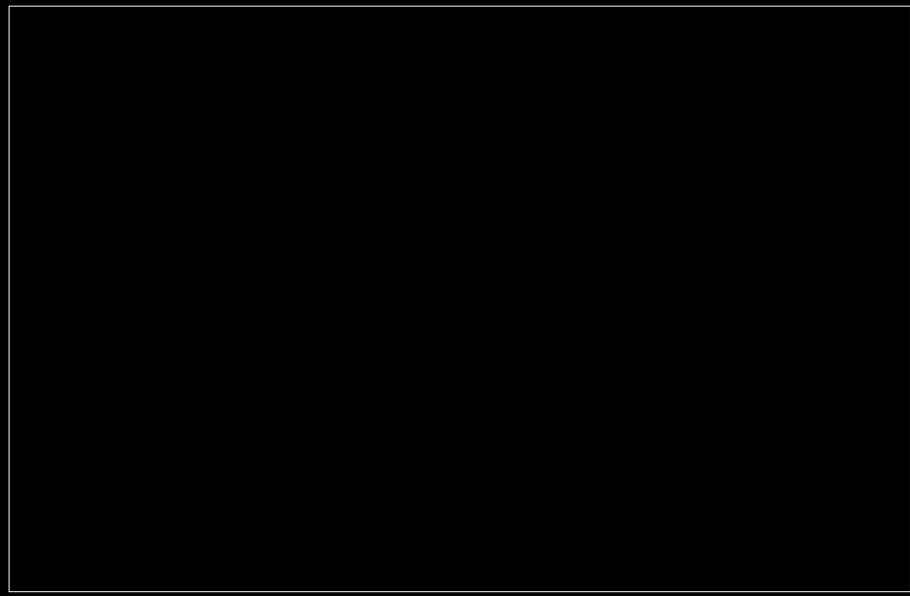


Update Function Configuration

```
const toolName = "update-function-runtime";
const toolDescription =
    "1. This tool can be used for updating the runtime version used by a Lambda function. \
    You MUST supply two parameters as explained below. \
    2. A 'functionName' parameter value MUST be supplied by the caller. \
    3. A 'runtime' parameter value MUST be spllied by the caller. \
   4. After updating a function runtime, you SHOULD invoke the function \setminus
   in order to validate it still works. ALWAYS ask the user if they want to check if function is still \
   working. Use invoke-function tool to test if the function can still be invoked. If invocation fails \
   rollback to the previous runtime version automatically. \
    ":
const toolParamsSchema = {
    functionName: z.string().describe("Name of the Lambda function to retrieve information about."),
    runtime: z.string().describe("The new runtime version to be used by the Lambda function.")
```



The result





The Transport

How does it work under-the-hood?



Message Types

Request

```
"jsonrpc": "2.0",
"id": 0,
"method": "initialize",
"params": {
  "protocolVersion": "2024-11-05",
  "capabilities": {
    "sampling": {},
    "roots": {}
  "clientInfo": {
    "name": "mcp-inspector",
    "version": "0.8.2"
```

Response

Notification

```
{
   "jsonrpc":"2.0",
   "method":"notifications/initialized"
}
```

Clients and servers can send

messages in either direction



Transport Types



Stdio (local)

Communicates through standard input/output streams. Use for integrations with local MCP Servers and command-line tools.

Streamable HTTP (remote)

Communicates over HTTP, with optional persistent SSE connection. Use for integrations with remote MCP Servers.



Stdio Transport





https://modelcontextprotocol.io/specification/2025-06-18/basic/transports





https://modelcontextprotocol.io/specification/2025-06-18/basic/transports



















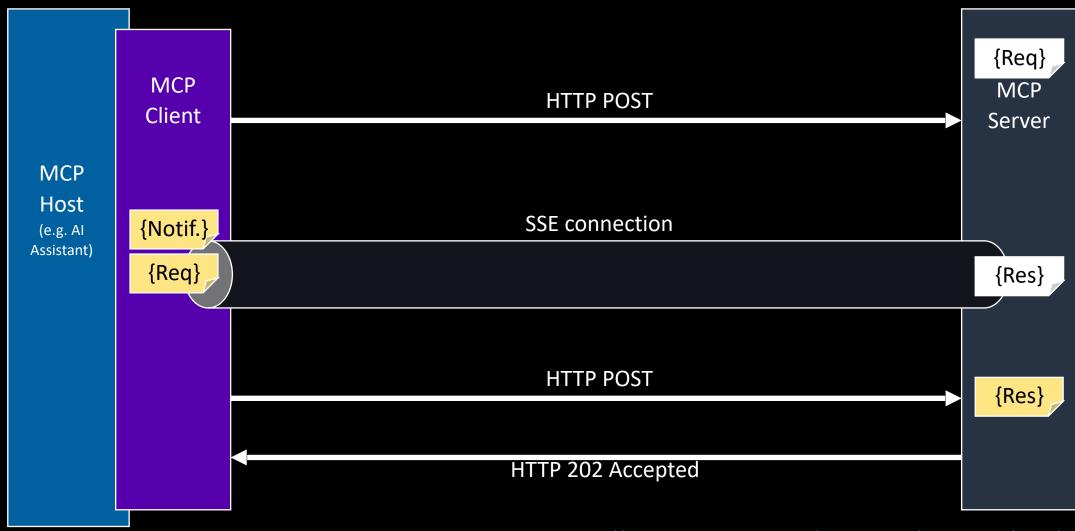




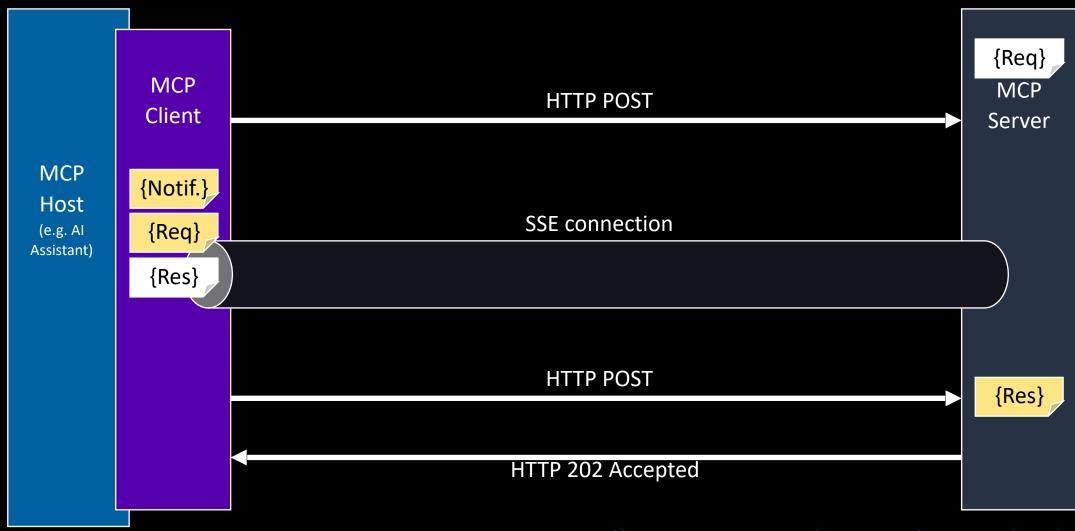






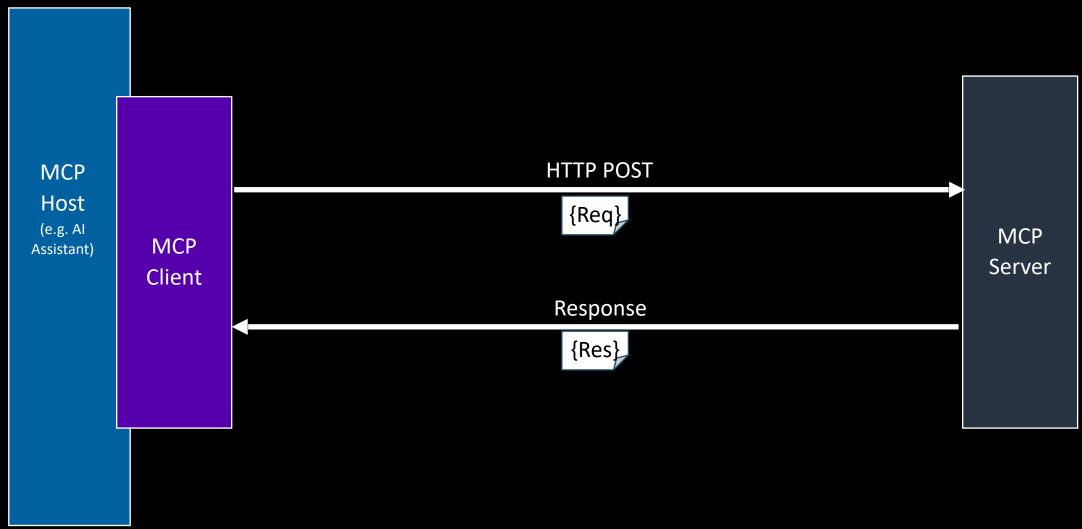








Streamable HTTP (with JSON response)





Remote MCP Servers

Running your MCP servers on AWS



Deploying to AWS









(or ANY other compute type, your Agent is just a Python app)

Building Serverless MCP Servers on AWS







Persistent stateful connections with SSE or stateless/connectionless



Stateless MCP Servers

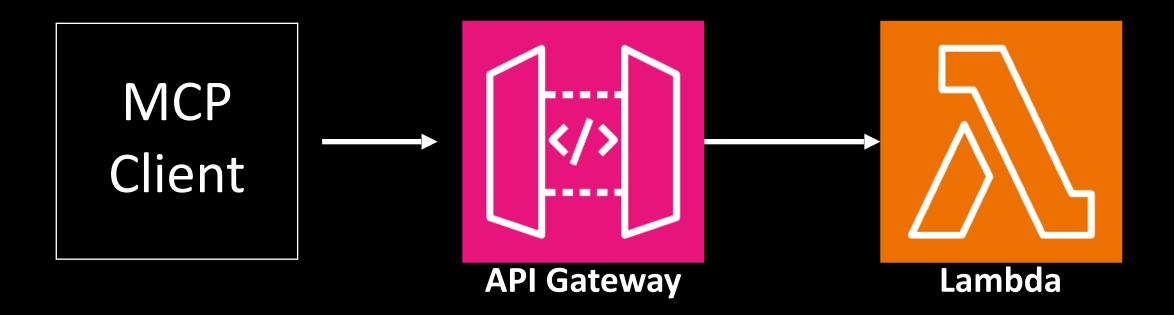
with AWS Lambda



Building Serverless MCP Servers on AWS

```
@mcp.tool()
def ping() -> str:
    return "Pong!"
```





Exposing MCP functionality to clients

Running a serverless MCP Server



```
# Stateful server, SSE enabled
mcp = FastMCP("MyAwesomeServer")
# Stateless server, SSE enabled
mcp = FastMCP("MyAwesomeServer",
                stateless_http=True)
# Stateless server, SSE disabled
mcp = FastMCP("MyAwesomeServer",
                stateless_http=True,
                json_response=True)
# Add a simple tool to demonstrate the server
@mcp.tool()
def ping() -> str:
    return "Pong!"
# Run server with streamable http transport
if __name__ == "__main__":
    mcp.run(transport="streamable-http")
```

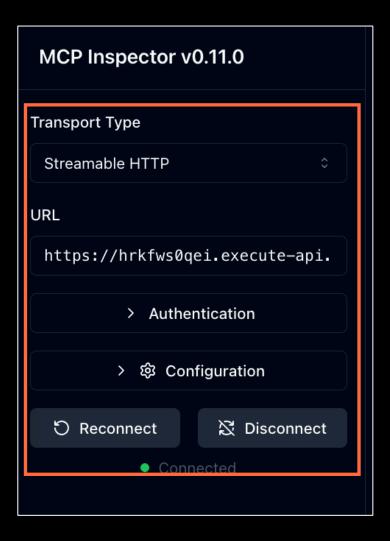
Define your MCP Server configuration



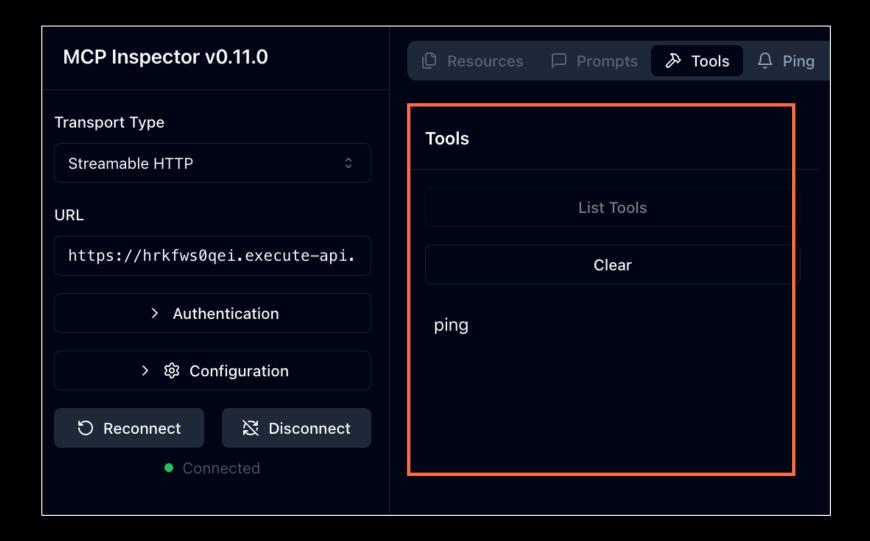
```
# Stateful server, SSE enabled
mcp = FastMCP("MyAwesomeServer")
# Stateless server, SSE enabled
mcp = FastMCP("MyAwesomeServer",
                stateless_http=True)
# Stateless server, SSE disabled
mcp = FastMCP("MyAwesomeServer",
                stateless_http=True,
                json_response=True)
# Add a simple tool to demonstrate the server
@mcp.tool()
def ping() -> str:
    return "Pong!"
# Run server with streamable http transport
if __name__ == "__main__":
    mcp.run(transport="streamable-http")
```

Define your MCP Server configuration

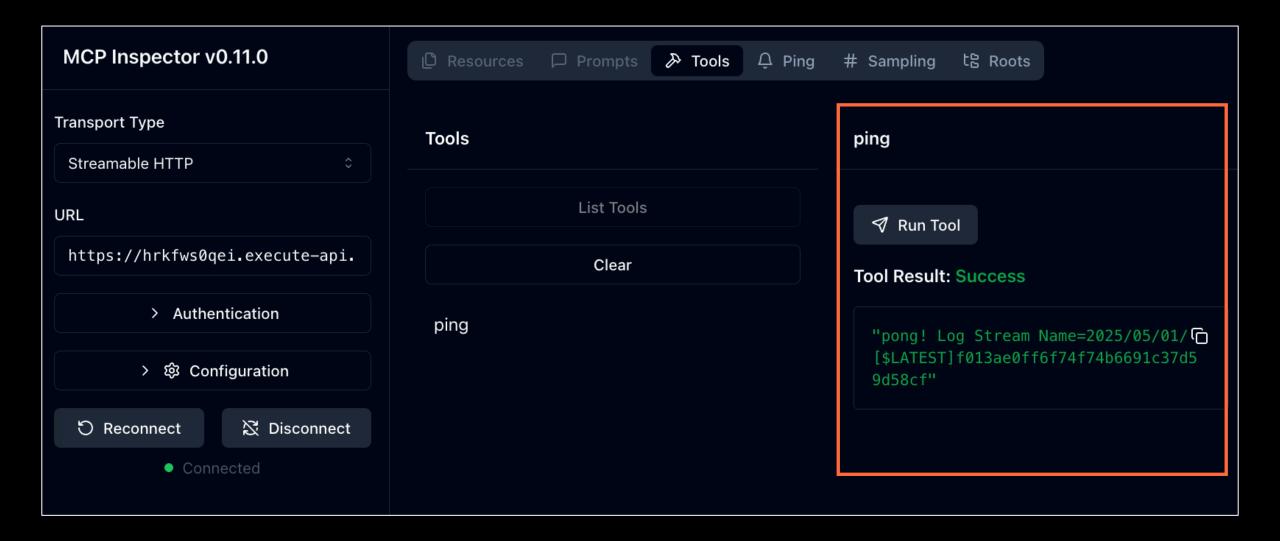












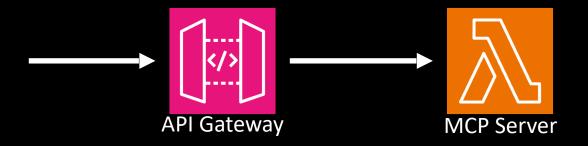


But what about observability? Security? Governance? CI/CD?

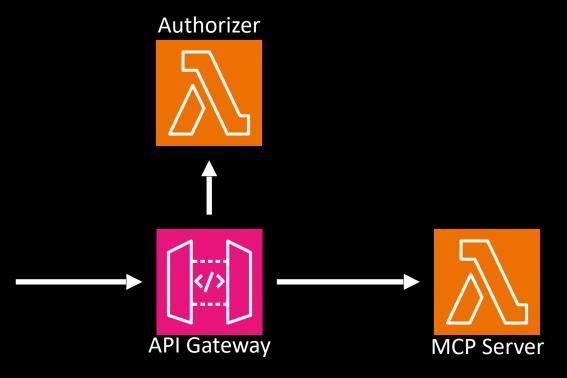
Everything you know about building serverless applications and APIs on AWS is still applicable!

(and will further improve as MCP spec evolves)

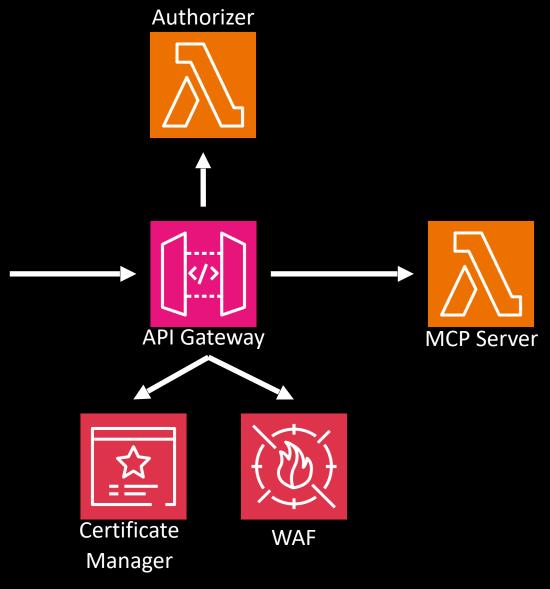




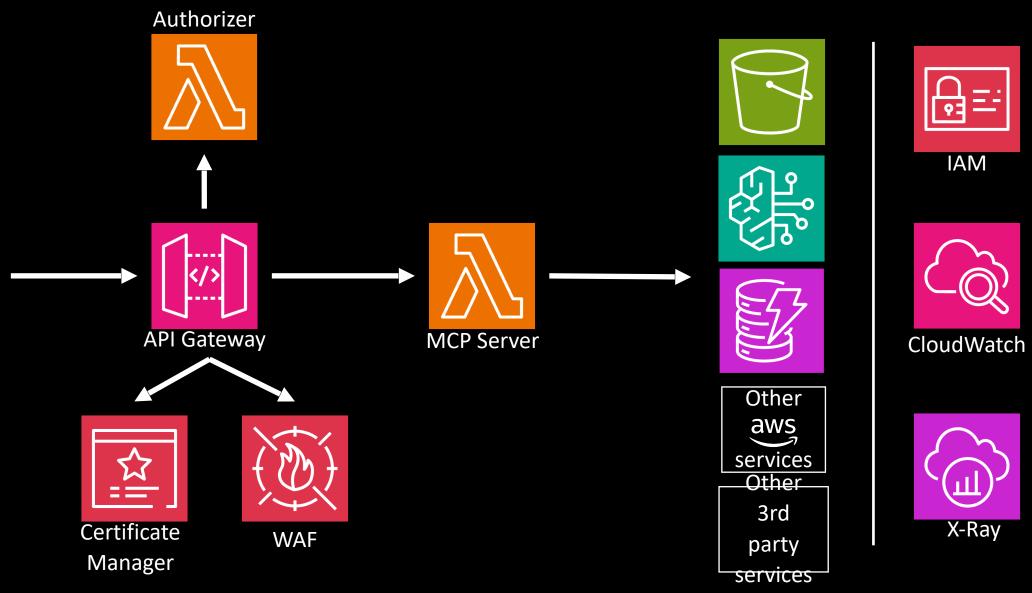
















```
      ▶ ②
      2025-05-02T10:13:45.444-05:00
      START RequestId: 42f25ab8-ed1c-4da6-96ef-e1e36c9fb33b Version: $LATEST

      ▶ ②
      2025-05-02T10:13:45.446-05:00
      DEBUG [transport-http-no-session.js:27:requestLogger] > POST /mcp

      ▶ ②
      2025-05-02T10:13:45.446-05:00
      DEBUG [transport-http-no-session.js:29:requestLogger] { method: 'notifications/initialized', jsonrpc: '2.0' }

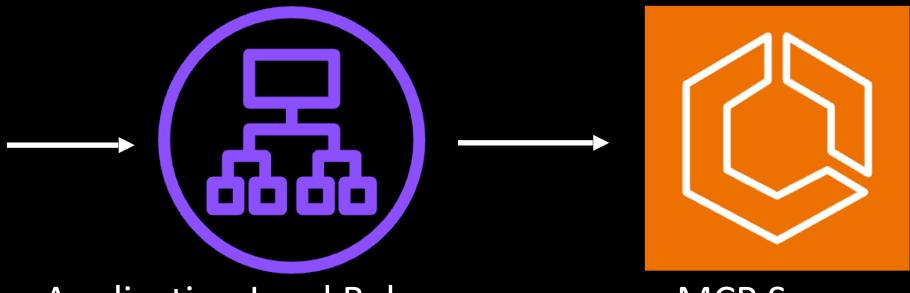
      ▶ ②
      2025-05-02T10:13:45.450-05:00
      END RequestId: 42f25ab8-ed1c-4da6-96ef-e1e36c9fb33b
```



Stateful MCP Server

with Amazon ECS

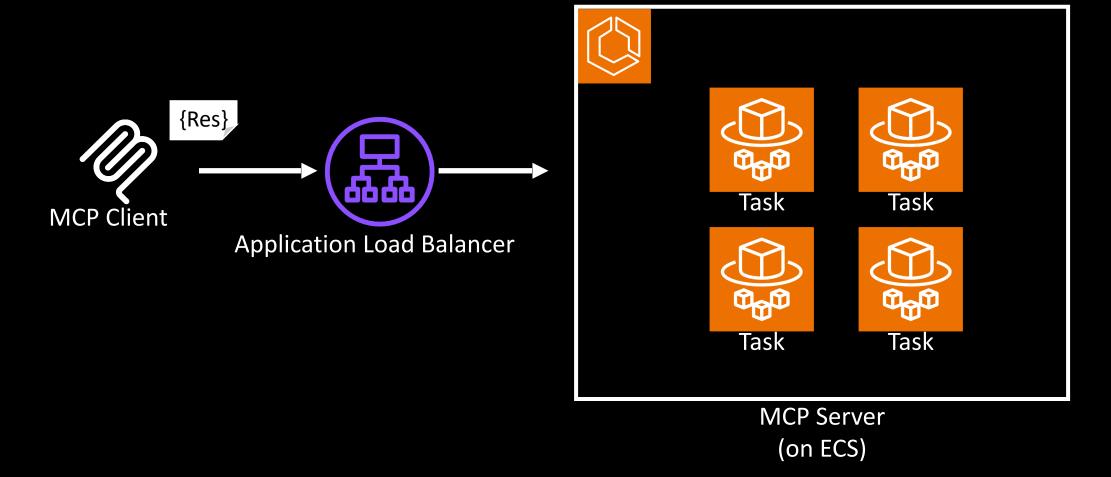




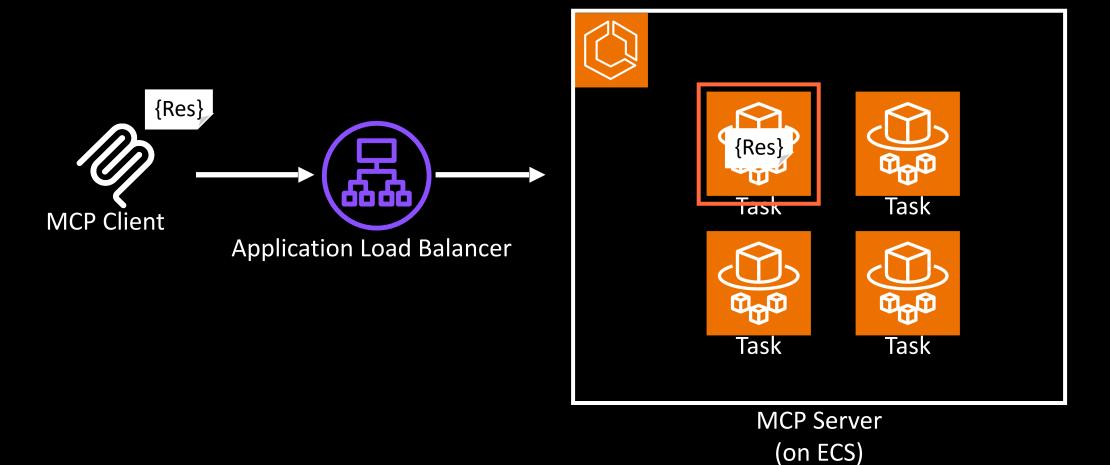
Application Load Balancer (with sticky sessions, if stateful)

MCP Server (on ECS Fargate)

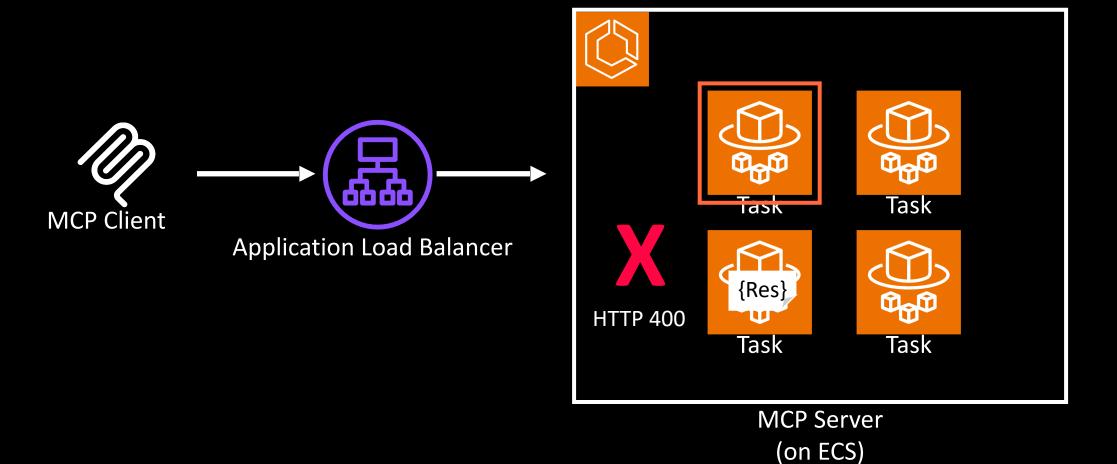




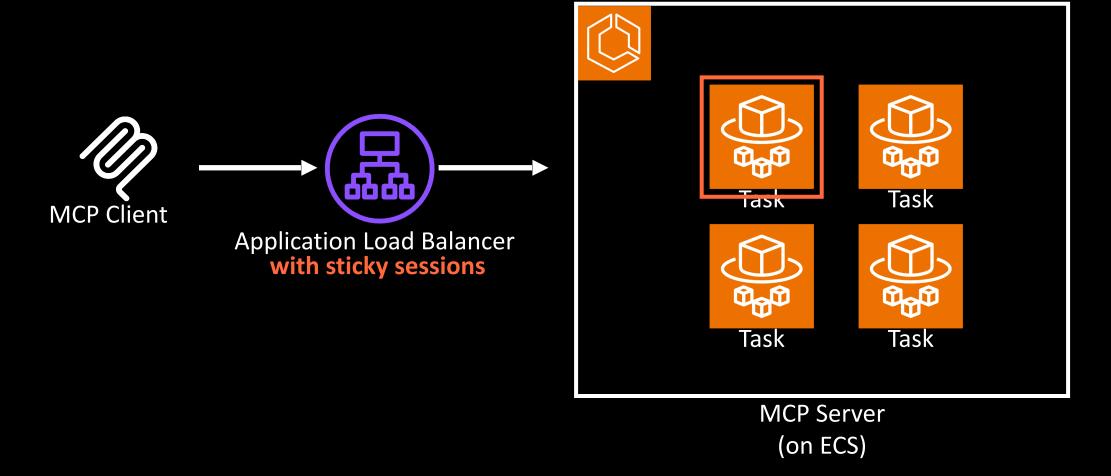














```
resource "aws_lb_target_group" "mcp_server" {
                    = local.project_name
 name
                    = local.ecs_task_container_port
 port
                    = "HTTP"
 protocol
           = aws_vpc.main.id
 vpc_id
 target_type = "ip"
 deregistration_delay = 60
 stickiness {
   enabled = true
   type = "lb_cookie"
   cookie_duration = 86400 # 1 day
```

Enable sticky sessions

```
# Stateful server, SSE enabled
mcp = FastMCP("MyAwesomeServer")
# Stateless server, SSE enabled
mcp = FastMCP("MyAwesomeServer",
                stateless_http=True)
# Stateless server, SSE disabled
mcp = FastMCP("MyAwesomeServer",
                stateless_http=True,
                json_response=True)
# Add a simple tool to demonstrate the server
@mcp.tool()
def ping() -> str:
    return "Pong!"
# Run server with streamable http transport
if _ name _ == " main ":
    mcp.run(transport="streamable-http")
```

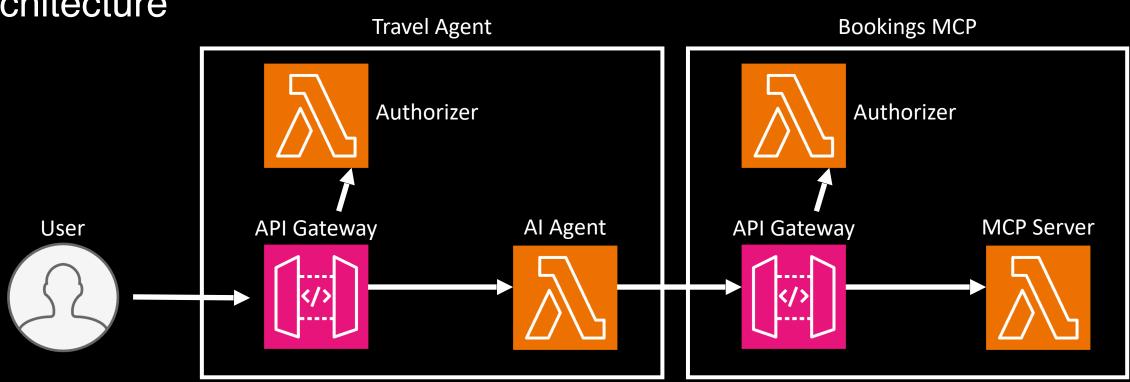
Define your MCP Server configuration

Let's see some demos

Building MCP Servers on AWS

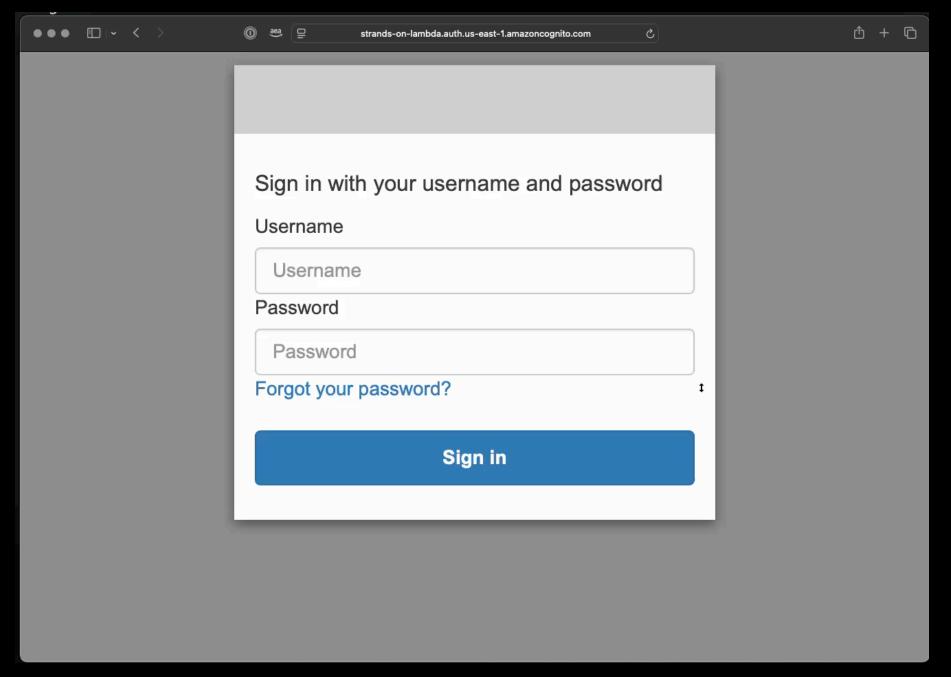


Architecture



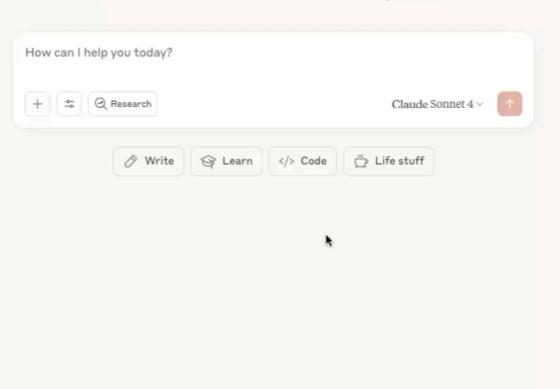
- Get Travel Policies
- Get Available Cars
- Get Available Hotels
- Book Car
- Book Hotel
- •







* Hi Max, how are you?

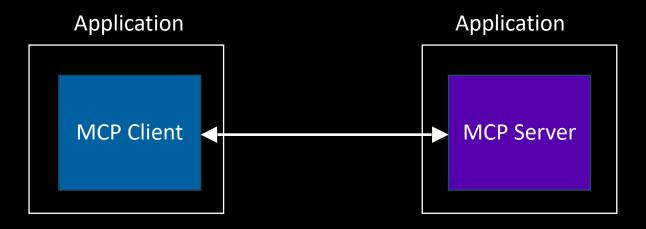




Advanced patterns

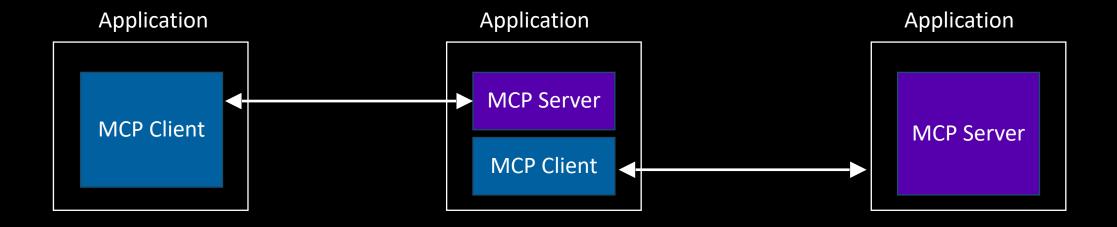


Composability



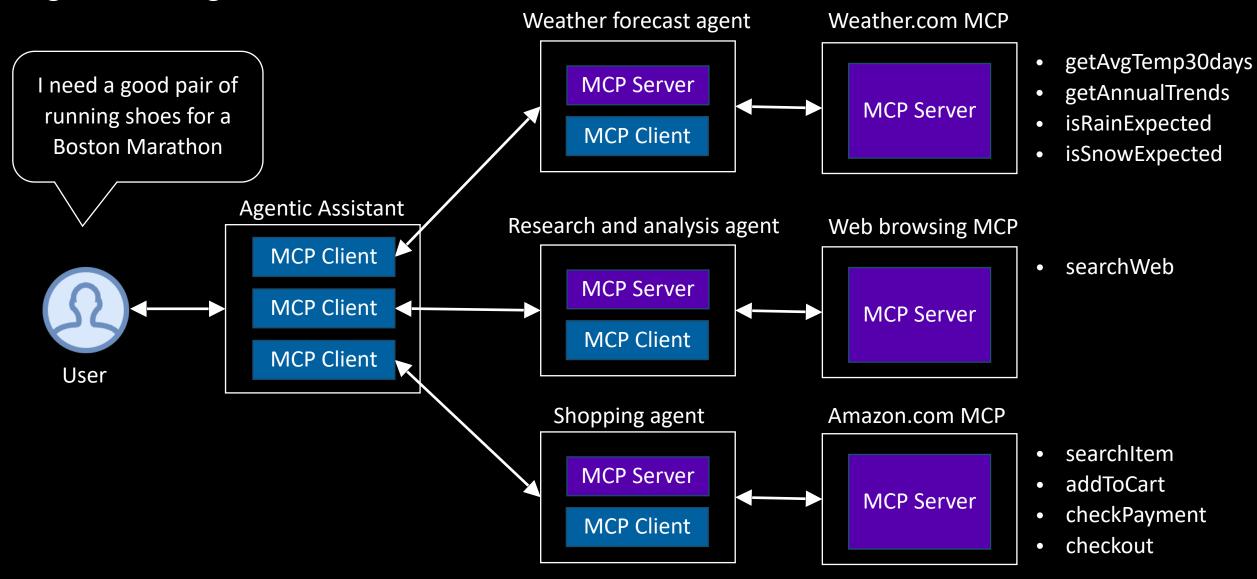


Composability





Agent-to-Agent communications



In conclusion

Building MCP Servers on AWS



Serverless MCP Servers on Lambda and ECS



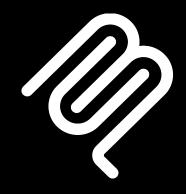


https://github.com/aws-samples/sample-serverless-mcp-servers

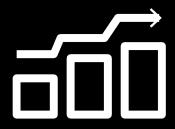




Best practices



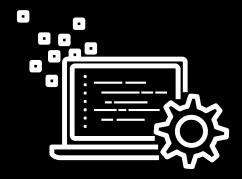
Use official MCP SDKs (and follow the MCP spec evolution)



Design for scalability and performance



Implement robust network and application security



Establish comprehensive monitoring and logging



Continue your Serverless Gen AI / MCP journey

aws

- Sample Serverless MCP Servers
- Resources for Generative AI and Serverless
- Deploy MCP servers in AgentCore Runtime
- CDK Construct for Serverless MCP Servers (1, 2, 3)
- AWS Labs MCP Servers (20+ MCP Servers!!!)
- Introducing AWS MCP Servers for code assistants
- Extend the Amazon Q Developer CLI with MCP
- Running MCP-Based Agents on AWS

ANTHROP\C

- Latest MCP Spec
- Getting started with MCP
- MCP Registry
- A list of maintained MCP Servers



Thank you!



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