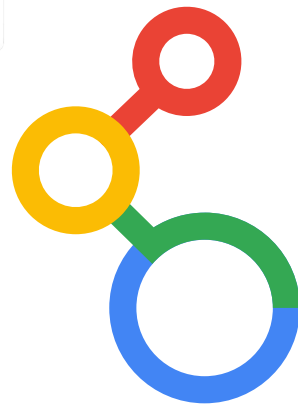




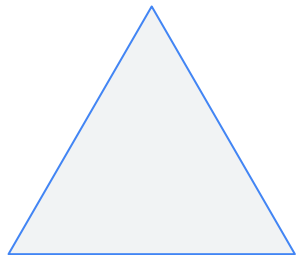
# Welcome to Community Webinar

## Agentic capability using Looker toolbox via MCP Server

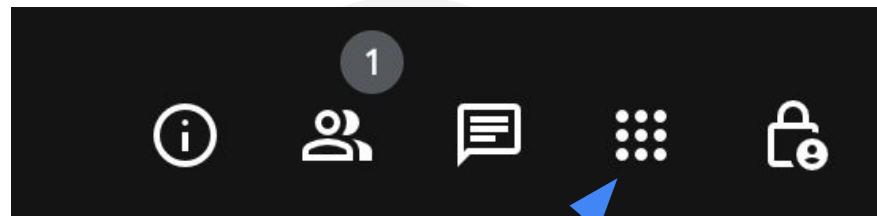


14th October 2025

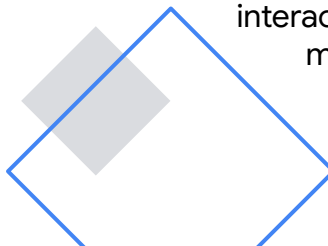
# Welcome



Please keep your  
microphone muted.



Ask questions (and  
upvote others' questions)  
interactively through the  
meet Q&A app





**Mike DeAngelo**

Developer Relations Engineer



**Haengeun Chi**

Outbound Product Manager

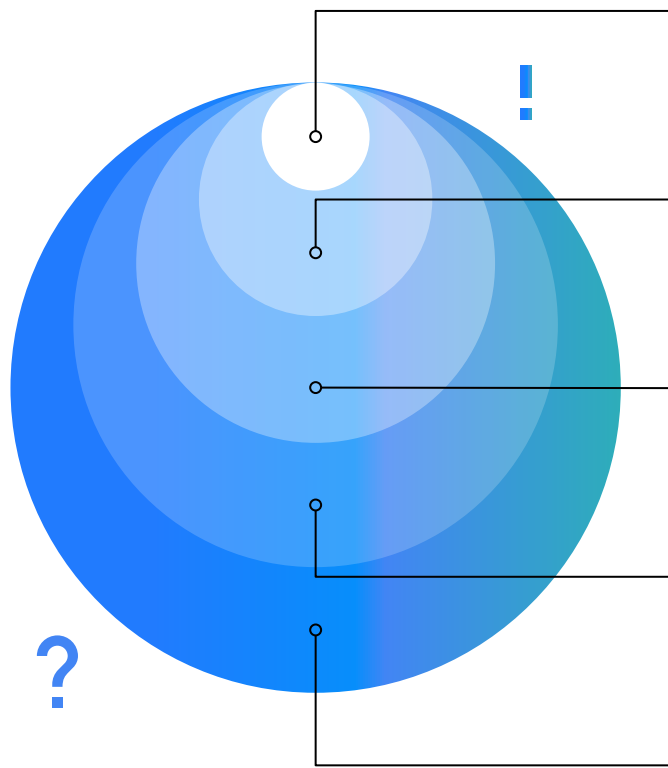


**Maire Newton**

Outbound Product Manager

# Agentic capability beyond Looker via MCP Toolbox

# From “What?” to “What next?”



## “What?”

Sales figures, inventory levels, metrics

## “How does this compare?”

Benchmarking, vs time, vs groups

## “Why?”

Root cause analysis, correlations

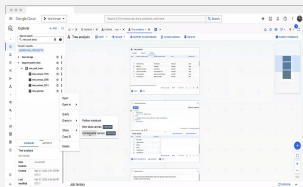
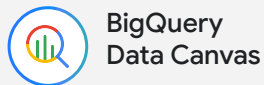
## “What will happen?”

Forecasting, trend prediction

## “What should we do?”

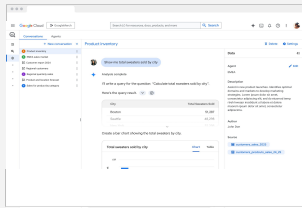
AI-powered recommendations

# Conversational Analytics Agents across the Data Cloud



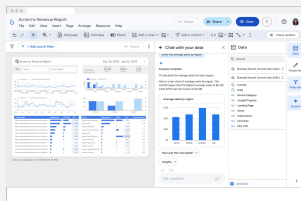
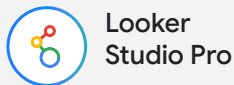
Empower data professionals to use Agents on BigQuery data directly in BigQuery Studio.

GA



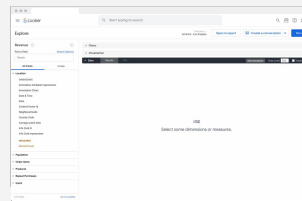
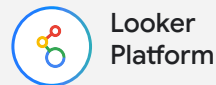
An integrated GenAI-centric hub for data analysts, data - engineers, and data scientists.

Roadmap



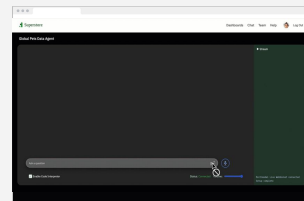
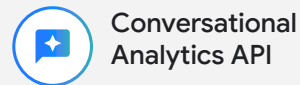
Cost-efficient tool for small teams (100+ users) to create intuitive, drag-and-drop dashboards and blend data.

Preview



Governed BI and Semantics for natural language data exploration for 300+ users, powered by LookML.

Preview



Empower developers to embed custom AI agents for analytics using Gemini models, serving 1,000+ users.

Preview

Serve technical teams (10+ users)

...reach wider audience (1,000+ users)

# Some Use Cases Require More Flexibility

## ● Combine data sources

Connect to **multiple data sources** beyond Looker and BigQuery (e.g. Google search, external APIs via HTTP, MySQL, Firestore, etc).

## ● Choose your LLM

You have a **unique business needs** to fine-tune and train LLM, and customize agentic capability to fit your needs

## ● Customize experiences

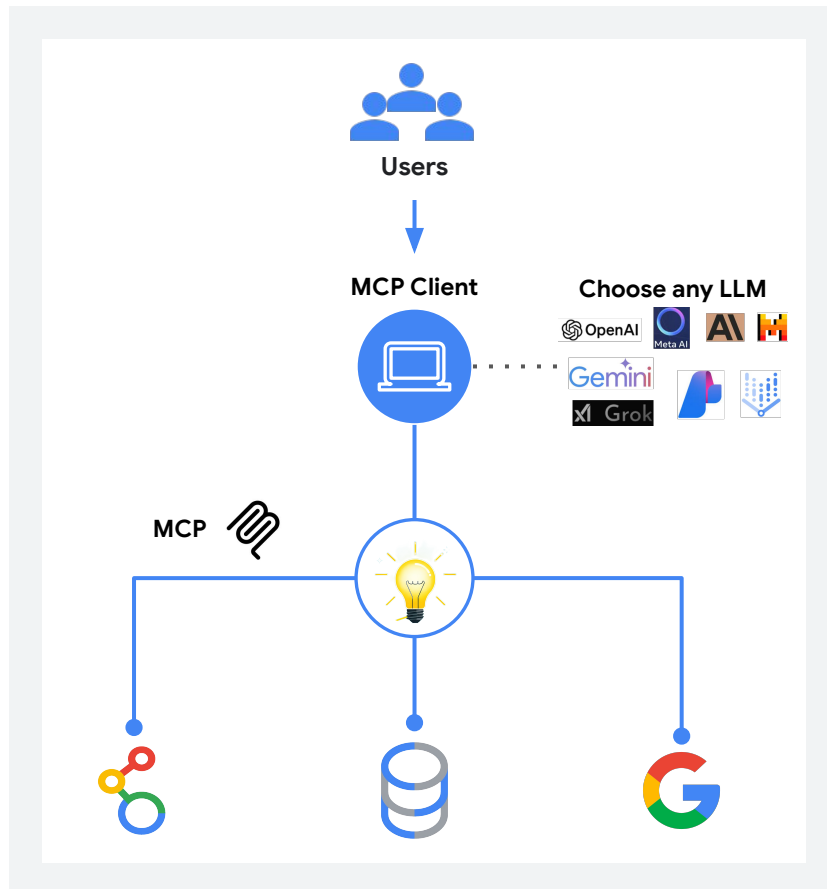
Pair open-source and proprietary data to create completely **custom agents** to address key use cases.

# Model Context Protocol (MCP)

**Model Context Protocol (MCP)** is an **open framework** that allows LLMs and AI applications to access tools and services consistently and securely.

- Universal port for connectivity
- Simplifies development
- Promotes interoperability

**MCP Toolbox** is an open-source server that hosts tools that allow LLM agents to **connect to enterprise data and services**.





# Looker toolbox via MCP Server

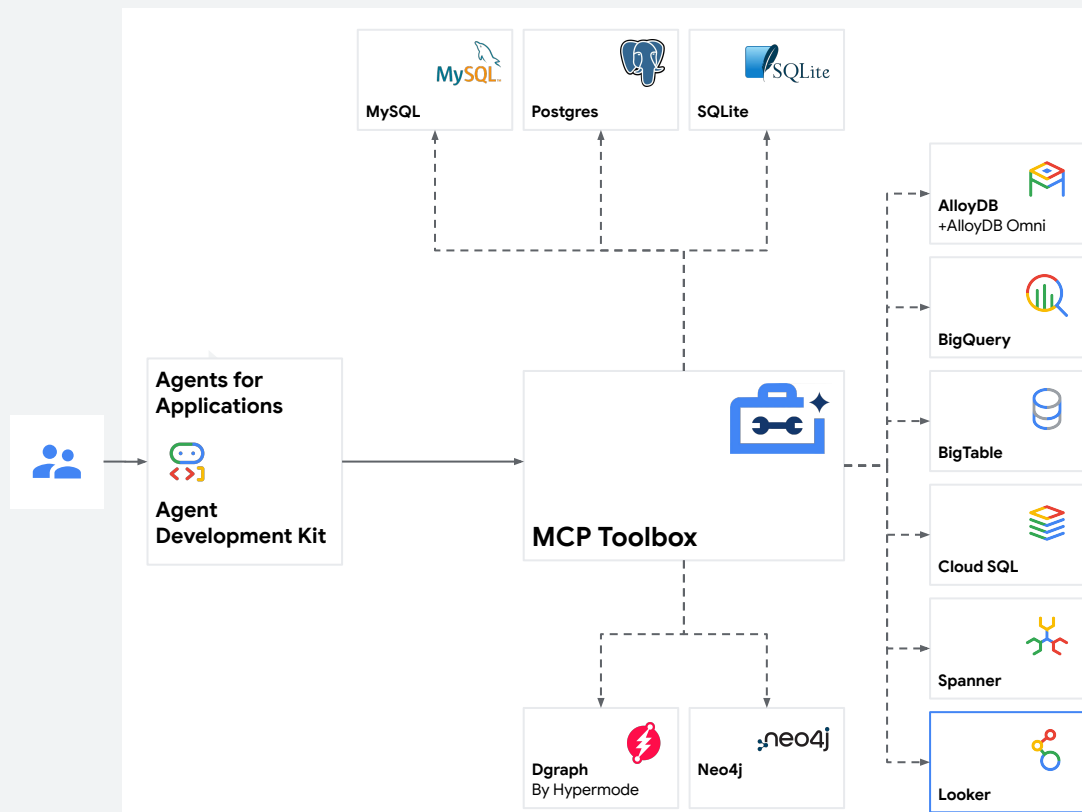
Infuse trusted data  
across your AI landscape



**MCP Toolbox:** Provides a unified and secure standard for AI agents to connect and access diverse data sources effortlessly

**Seamless integration:** Looker MCP Server extends the MCP Toolbox by making Looker's trusted semantic models directly accessible to any MCP client

**Governed AI insights:** This integration empowers your AI applications to consistently query accurate, business-defined metrics and insights from Looker



# AI capability across the GCP Data Cloud: Which options to choose

# Choosing between Looker CA (API or UI based) vs MCP

## Conversational Analytics (either API or UI based)



- ✓ Powered by Google's proprietary **Gemini LLM**, offering an **out-of-the-box**, integrated experience
- ✓ **Pre-built** agents and features to **streamline** set up
- ✓ **Data Privacy**: customer prompts or data are NOT used for training AI models for Gemini in Looker
- ✓ Advanced Analytics using **Python to answer** for more complex data questions and insights e.g. time series forecasting, Key Drivers analysis, Anomaly Detection
- ⚠ No control over the underlying LLM that powers the conversational experience
- ⚠ Limited customization or ability to train LLM

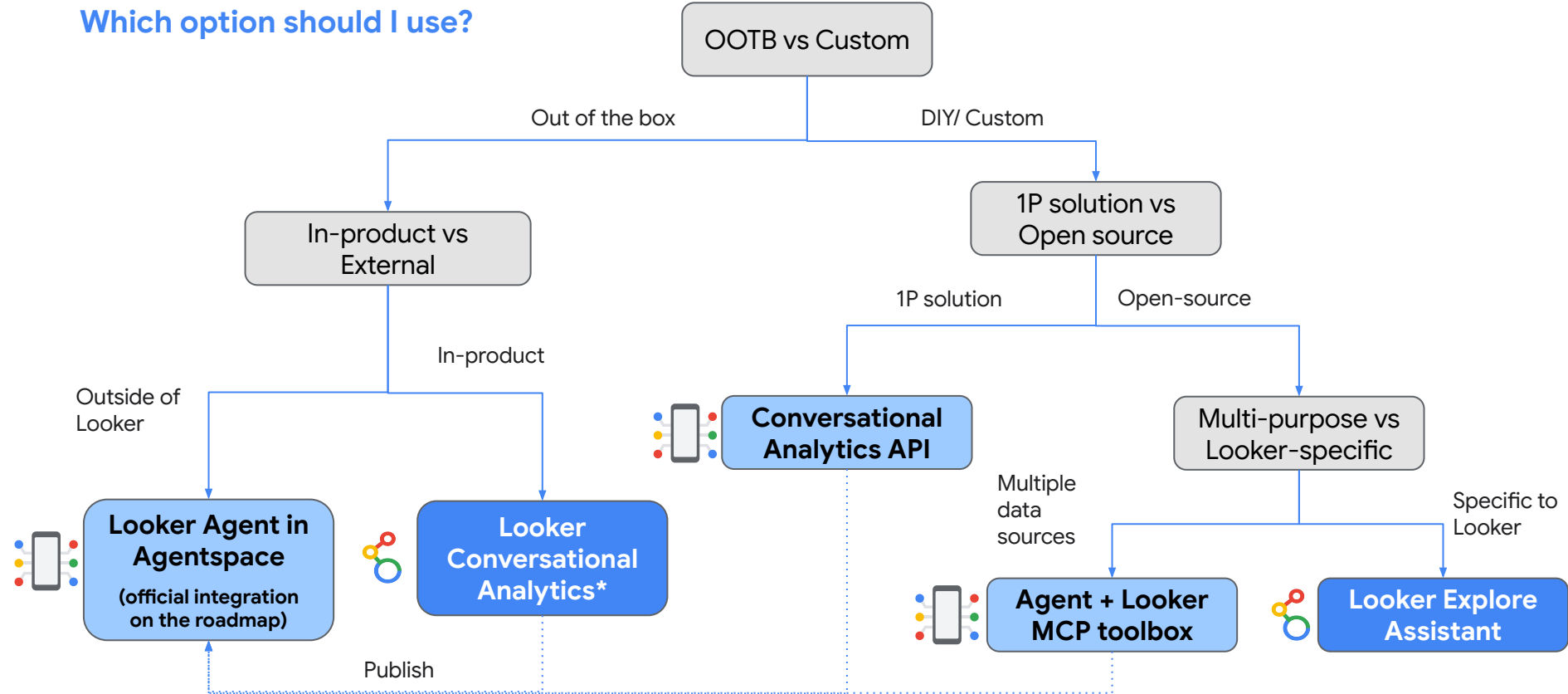
## Looker tools via MCP Toolbox



- ✓ **Open, model-agnostic** approach allows for the use of any preferred LLM, providing greater **flexibility** and **control** to train the model specifically for unique business needs
- ✓ **Connect to multiple data sources**: able to connect to multiple data sources beyond Looker and BigQuery (e.g. external APIs via HTTP, MySQL, Firestore, etc).
- ⚠ Requires a **greater development effort** to build custom applications and integrate chosen LLMs.
- ⚠ For custom solutions, data privacy and training practices would depend on the chosen LLM provider and implementation.

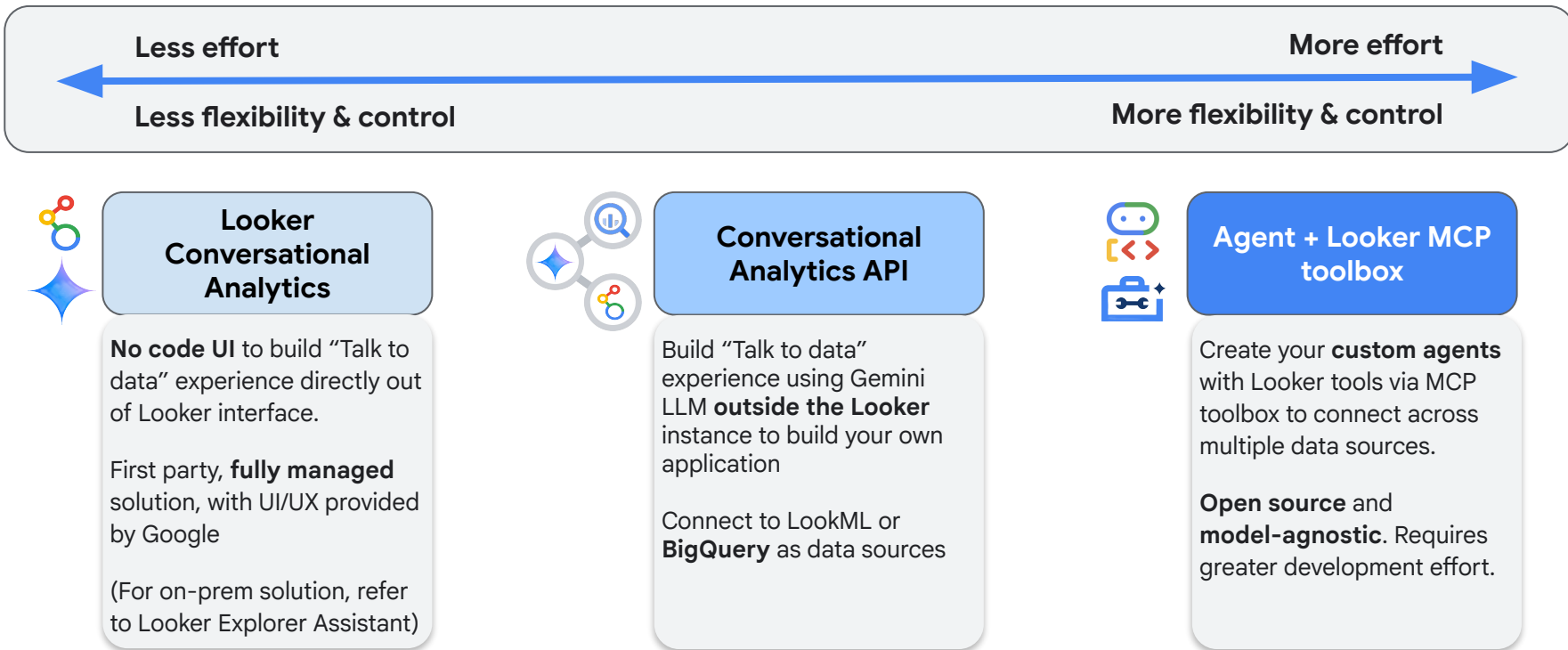
# Talk to Data with Looker

Which option should I use?



# Talk to Data with Looker

Which options should I use?



# Empowering Automation for Every Data Role with Agents



## Data engineer

Design and build scalable data systems



## Analytics engineer

Transform and model data in the warehouse



## Data analyst

Query and analyze using BI tools



## Business User

Finding insights using purpose-built agents

Data Agent in Agentspace

In-product capabilities

Agentspace or MCP



BigQuery Data Canvas

GA



BigQuery Conversational Analytics

Roadmap



Looker Studio Pro

Preview



Looker Platform

Preview



Conversational Analytics API

Preview

Serve technical teams (10+ users)

...reach wider audience (1,000+ users)

# DEMO: Looker MCP Toolbox

# Resources/ How to get started



# How to get started with Looker MCP server

- **Install the binary version of the MCP toolbox**

- Choose the correct binary depending on Linux/Mac/Windows

- **Configure your MCP client**

- Choose MCP client of your choice e.g. Gemini CLI
  - Provide Looker API credentials

- **Connect to your MCP client**

- Install the packages and run e.g. Gemini CLI
  - Give permissions to execute tools
  - Start interacting with data!



## Resources

- [Looker using MCP | MCP Toolbox for Databases](#)
- [Quickstart \(MCP with Looker and Gemini-CLI\) | MCP Toolbox for Databases](#)



Search this site...

## Documentation

- ▶ Getting Started
- ▶ Concepts
- ▼ How-to
  - ▶ Connect from your IDE
    - Connect via MCP Client
    - Toolbox UI
    - Connect via Gemini CLI Extensions
  - Deploy to Cloud Run
  - Deploy to Kubernetes
  - Deploy using Docker Compose
  - Export Telemetry
- ▶ Resources
- ▶ Samples
- ▶ About
- ▶ SDKs
- ▶ Reference

## Set up Looker

1. Get a Looker Client ID and Client Secret. Follow the directions [here](#).
2. Have the base URL of your Looker instance available. It is likely something like `https://looker.example.com`. In some cases the API is listening at a different port, and you will need to use `https://looker.example.com:19999` instead.

## Install MCP Toolbox

1. Download the latest version of Toolbox as a binary. Select the [correct binary](#) corresponding to your OS and CPU architecture. You are required to use Toolbox version v0.10.0+:

linux/amd64   darwin/arm64   darwin/amd64   windows/amd64

```
curl -O https://storage.googleapis.com/genai-toolbox/v0.17.0/linux/amd64/toolbox
```

1. Make the binary executable:

```
chmod +x toolbox
```

2. Verify the installation:

```
./toolbox --version
```

- View page source
- Edit this page
- Create child page
- Create documentation issue
- Create project issue

Set up Looker

Install MCP Toolbox

Configure your MCP Client

Use Tools



🔍 Search this site...

## Documentation

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## Configure your MCP Client

Gemini-CLI

Claude code

Claude desktop

Cline

Cursor

Visual Studio Code (Copilot)

Windsurf

1. Install [Gemini-CLI](#).
2. Create a directory `.gemini` in your home directory if it doesn't exist.
3. Create the file `.gemini/settings.json` if it doesn't exist.
4. Add the following configuration, or add the `mcpServers` stanza if you already have a `settings.json` with content. Replace the path to the toolbox executable and the environment variables with your values, and save:

```
{
  "mcpServers": {
    "looker-toolbox": {
      "command": "./PATH/TO/toolbox",
      "args": ["--stdio", "--prebuilt", "looker"],
      "env": {
        "LOOKER_BASE_URL": "https://looker.example.com",
        "LOOKER_CLIENT_ID": "",
        "LOOKER_CLIENT_SECRET": "",
        "LOOKER_VERIFY_SSL": "true"
      }
    }
  }
}
```

5. Start Gemini-CLI with the `gemini` command and use the command `/mcp` to see the configured MCP tools.

View page source

Edit this page

Create child page

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issue

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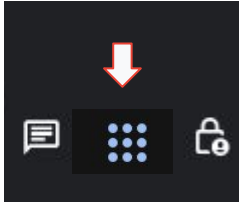


# Questions?

Before leaving

**Please,  
Anonymously  
rate the session**

Access the survey through this tool  
on the bottom right corner of the screen



**Thank you.**