

Tutorial: Integrating LangSmith with Flowise Agent Flow

This tutorial will guide you through the process of integrating LangSmith tracing and monitoring with your Flowise agent flow.

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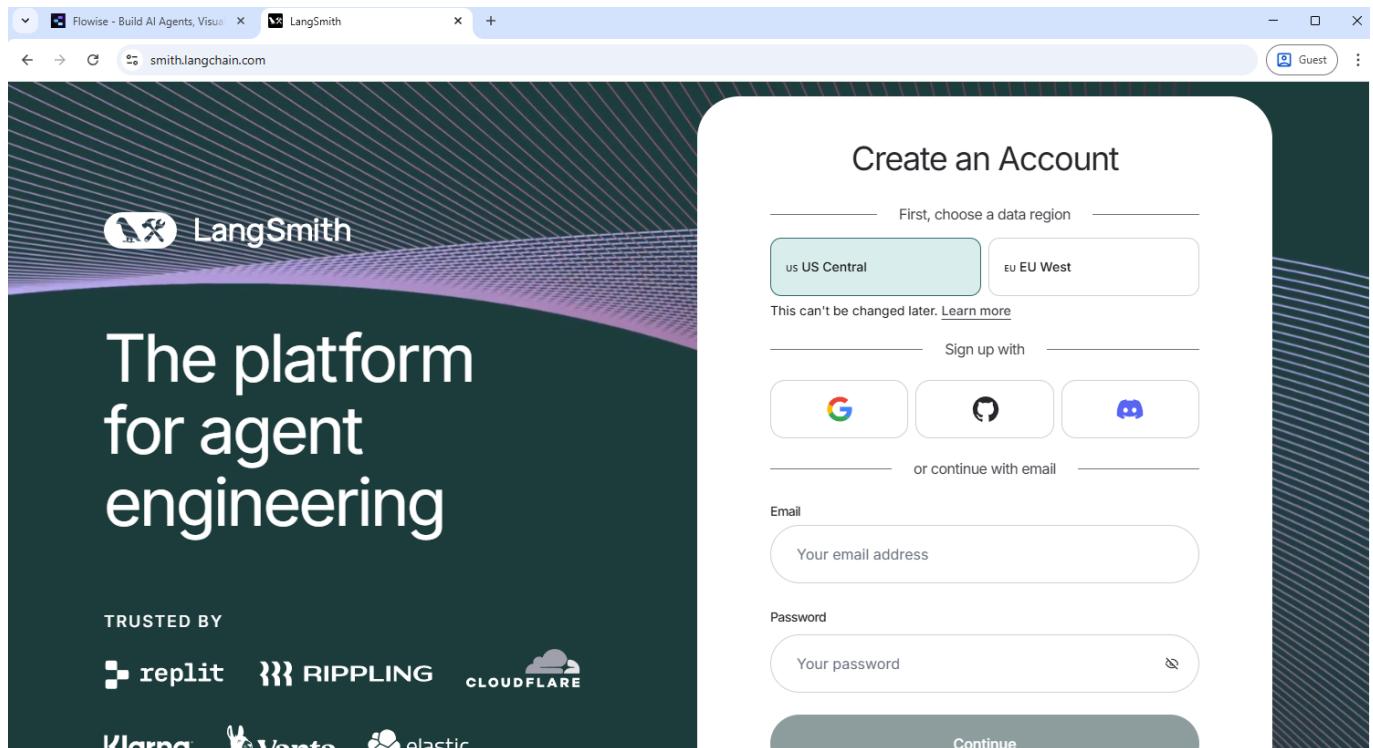
Prerequisites

- A LangSmith account
 - A running Flowise instance
 - An existing agent flow in Flowise
-

Setting up LangSmith

Step 1: Login to LangSmith

Navigate to <https://smith.langchain.com> and log in to your account.



Step 2: Access Your Dashboard

After logging in, you'll see your personal dashboard with an overview of your tracing projects.

The screenshot shows the LangSmith personal dashboard. On the left is a sidebar with various icons. The main area has a header with tabs for "Personal" and "Setup resource tags" (which is highlighted in blue). Below the header are four buttons: "Traces" (purple bar, 1245/5000), "Studio quickstart", "Tracing quickstart", and "Evaluation quickstart". The main content area is titled "Observability" and contains a table for "Tracing Projects". The table has columns: Name, Most Recent Run (7D), Feedback (7D), Run Count (7D), Error Rate (7D), P50 Latency (7D), and P99 Latency (7D). The data includes:

Name	Most Recent Run (7D)	Feedback (7D)	Run Count (7D)	Error Rate (7D)	P50 Latency (7D)	P99 Latency (7D)
evaluators	10/25/2025, 5:01:00 PM	534	0%	0.00s	1.45s	...
tutorial-langsmith-evaluation	10/25/2025, 4:50:01 PM	6	0%	0.35s	0.73s	...
pr-mcp-quick-test		0	0%			...
pr-jaunty-gosling-55		0	0%			...
Eng Demo Split		0	0%			...

Below the table, it says "Showing 5 most active projects." and "View all tracing projects →".

Step 3: Expand the Navigation Panel

Click on the expand icon to view the full navigation menu.

This screenshot is identical to the one above, but the left sidebar is highlighted with a purple rectangle to indicate it is being interacted with. The sidebar icons include: Home, Personal (highlighted), Traces, Studio, Tracing, Evaluation, Datastore & Experiments, Annotation Overview, and Help.

Step 4: Create a New Tracing Project

1. Click on "**Tracing Projects**" in the left sidebar
2. Click the "**+ New Project**" button

The screenshot shows the LangSmith Tracing Projects interface. On the left, there's a sidebar with various project categories like Evaluation, Datasets & Experiments, Annotation Queues, etc. The main area displays a table of projects with columns for Name, Most Recent Run (7D), Feedback (7D), and Run Cou. Projects listed include 'evaluators', 'tutorial-langsmit', 'pr-mcp-quick-test', 'pr-jaunty-gosling-55', 'Eng Demo Split', 'Engdemo', and 'default'. A search bar at the top allows filtering by project name. A green button in the top right corner says '+ New Project'.

Step 5: Generate API Key

Click on the "**Generate API Key**" button to create a new API key for your project.

The screenshot shows the 'Build an agent' section of the LangSmith interface. It includes sections for 'INTEGRATIONS' (LangChain, OpenAI Agents SDK, Vercel AI SDK) and 'MANUAL INSTRUMENTATION' (Trace existing application). The main area is titled 'Build an agent' and contains three numbered steps: 1. Create your API Key (with a green button highlighted), 2. Install dependencies (with a command: `pip install --pre -U langchain langchain-openai`), and 3. Configure environment (with environment variables: `export LANGSMITH_TRACING=true`, `export LANGSMITH_ENDPOINT=https://api.smith.langchain.com`, `export LANGSMITH_API_KEY=<your-api-key>`, `export LANGSMITH_PROJECT=pr-plaintive-osmosis-13`, `export OPENAI_API_KEY=<your-openai-api-key>`).

Step 6: Copy the API Key

Once generated, copy the LangSmith API key. You'll need this to configure Flowise.

Important: Store this API key securely. You won't be able to see it again after closing this dialog.

The screenshot shows the Flowise interface with the URL smith.langchain.com/o/4a5d17c6-efba-5026-b13a-8148a4cc0d53/projects. On the left sidebar, under the 'Tracing' section, there is a 'LangSmith' button. The main area is titled 'TRACE AN APPLICATION' and 'Build an agent'. It provides instructions to build a React-style agent with two components: a tool call for weather-related questions and an LLM call for general queries. Step 1 shows a new key created: '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'. Step 2 shows the command to install dependencies: `pip install --pre -U langchain langchain-openai`. Step 3 shows environment variables to configure:

```
export LANGSMITH_TRACING=true
export LANGSMITH_ENDPOINT=https://api.smith.langchain.com
export LANGSMITH_API_KEY=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
export LANGSMITH_PROJECT=pr-plaintive-osmosis-13
export OPENAI_API_KEY=<your-openai-api-key>
```

Configuring Flowise

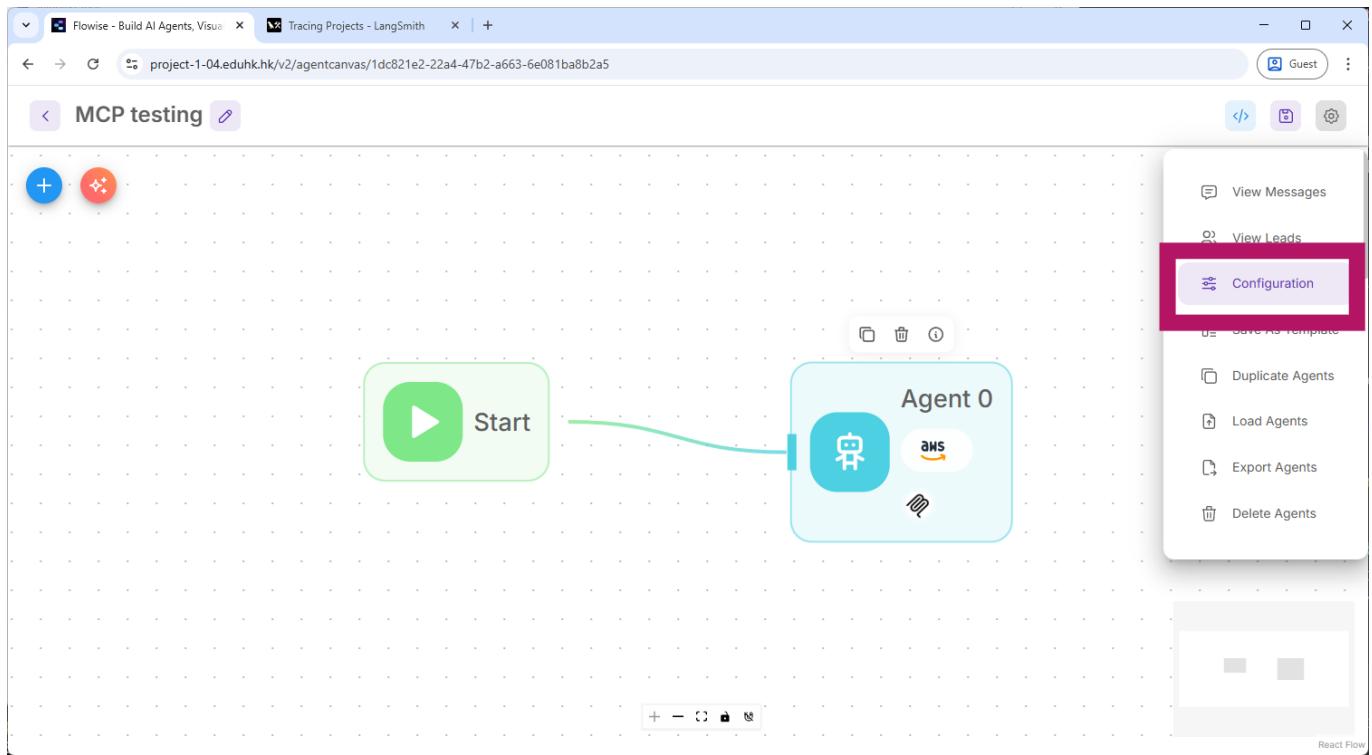
Step 7: Open Your Agent Flow

In Flowise, open the agent flow where you want to enable LangSmith tracing.

The screenshot shows the Flowise visual editor with the URL project-1-04.eduhk.hk/v2/agentcanvas/1dc821e2-22a4-47b2-a663-6e081ba8b2a5. The top right corner features a gear icon (Settings) which is highlighted with a red box. The main canvas displays a flow starting from a green 'Start' node, which has a play button icon, leading to a light blue 'Agent 0' node. The 'Agent 0' node contains icons for AWS Lambda and a speech bubble. The bottom right corner of the editor window shows a small preview labeled 'React Flow'.

Step 8: Access Flow Settings

Click on the **Settings** icon (gear icon) in the top right corner of your flow.



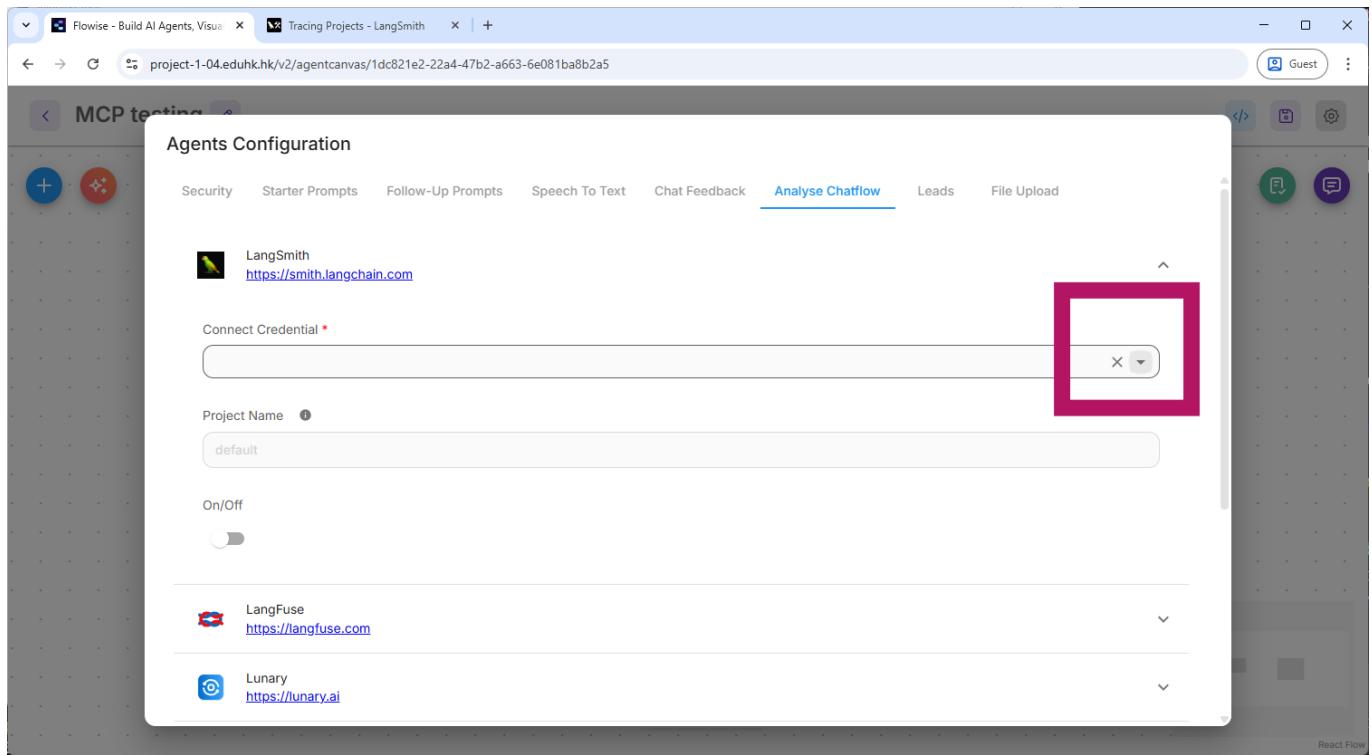
Step 9: Navigate to Analyze Chatflow

1. Click on the "**Analyse Chatflow**" tab
2. Click on the dropdown menu to configure tracing options

The screenshot shows the 'Agents Configuration' tab selected. A dropdown menu is open next to the 'LangSmith' provider, which is highlighted with a red box. The dropdown menu contains several tracing providers: LangSmith, LangFuse, Lunary, LangWatch, Arize, Phoenix, and Opik. The URL for LangSmith is also visible: <https://smith.langchain.com>.

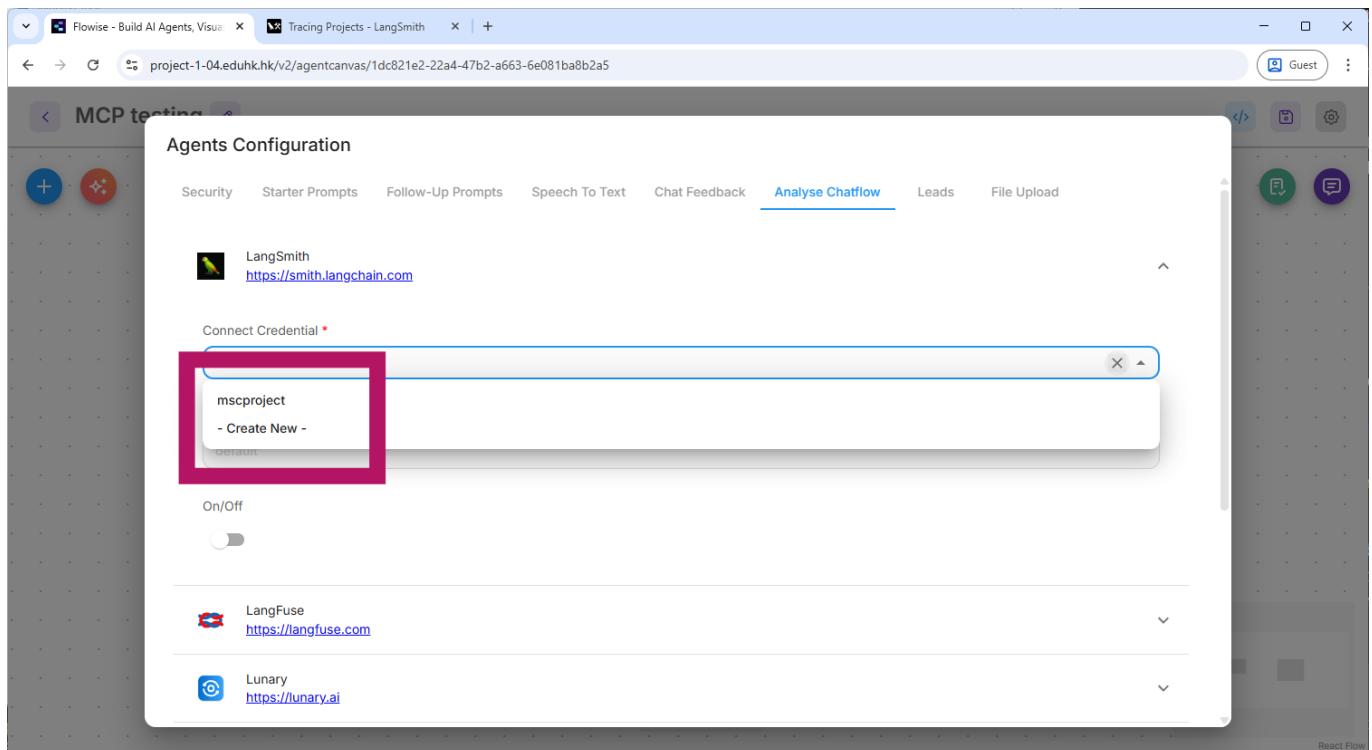
Step 10: Select LangSmith

From the dropdown menu, select "**LangSmith**" as your tracing provider.



Step 11: Create New Credential

Click on "**Create New**" to add your LangSmith API credentials.

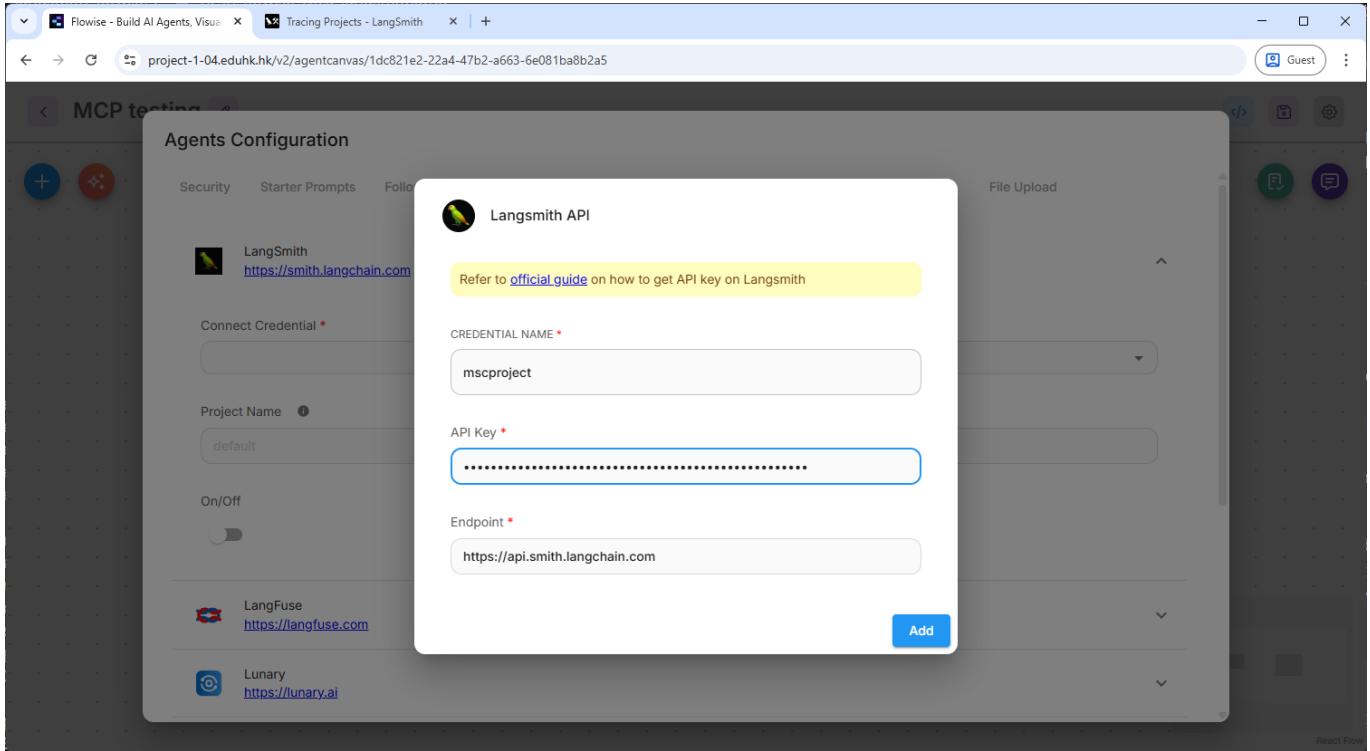


Step 12: Input Credentials

In the credential dialog:

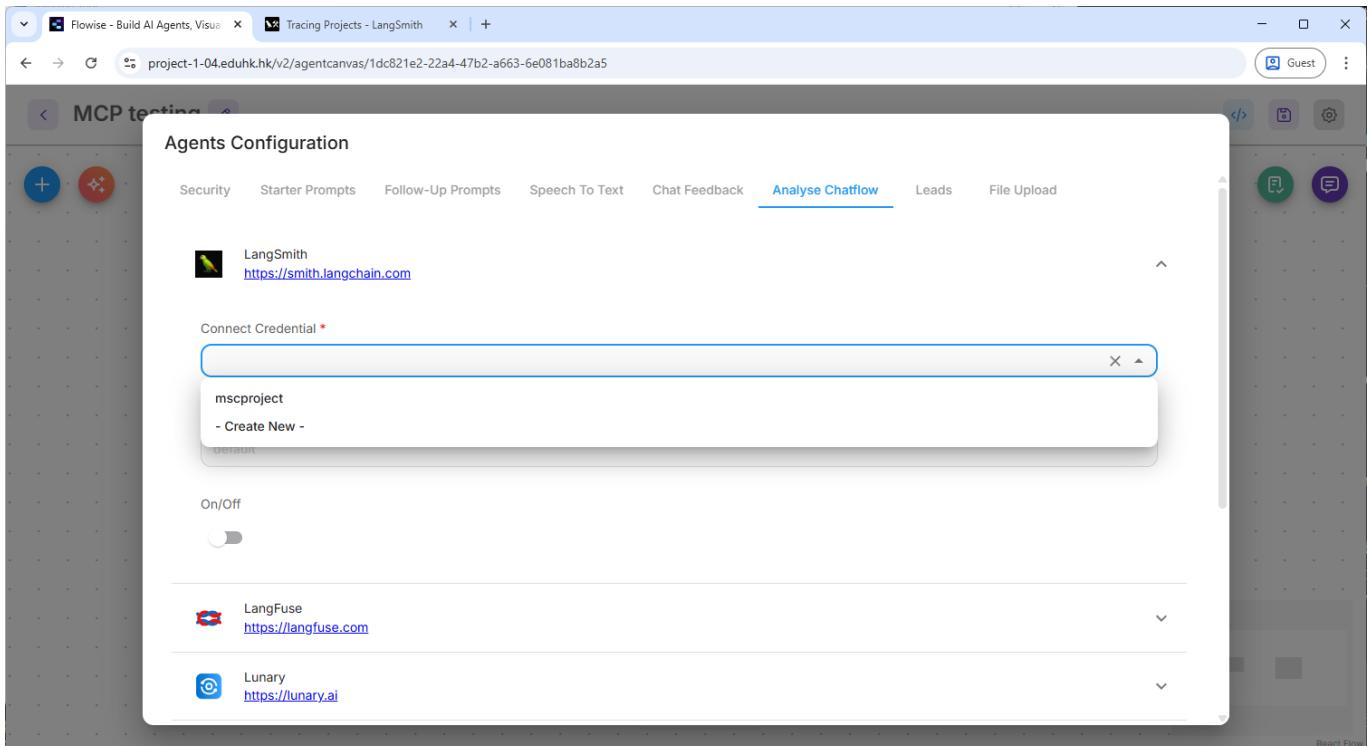
1. **Credential Name:** Enter a descriptive name (e.g., "mscproject")
2. **API Key:** Paste the LangSmith API key you copied in Step 6
3. **Endpoint:** The default endpoint should be <https://api.smith.langchain.com>

4. Click "**Add**" to save the credential



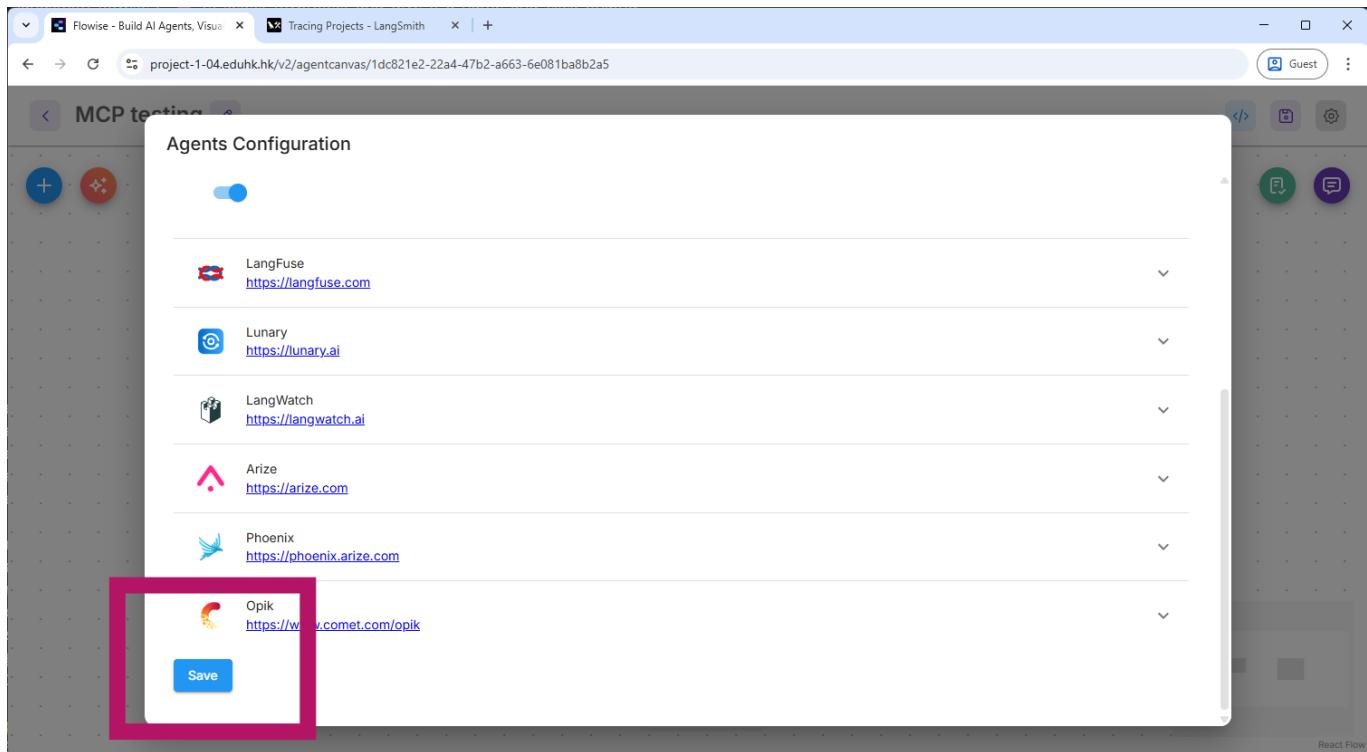
Step 13: Configure Project Settings

1. Select the credential you just created from the dropdown (e.g., "mscproject")
2. **Project Name:** Enter a name for tracking this flow in LangSmith
3. Toggle the switch to **On** to enable LangSmith tracing



Step 14: Save Configuration

Scroll down and click the "**Save**" button to apply all changes.



Testing the Integration

After saving your configuration:

1. Test your Flowise agent flow by sending a few test messages
2. Return to your LangSmith dashboard at <https://smith.langchain.com>
3. Navigate to your tracing project
4. You should now see traces appearing for each interaction with your Flowise agent

Troubleshooting

Common Issues

Issue: Traces not appearing in LangSmith

- Verify that the API key is correct
- Ensure the project name in Flowise matches the one in LangSmith
- Check that tracing is toggled "On" in Flowise settings
- Confirm the endpoint URL is correct: <https://api.smith.langchain.com>

Issue: Authentication errors

- Regenerate your API key in LangSmith
- Update the credential in Flowise with the new key

Issue: Missing data in traces

- Ensure all nodes in your Flowise flow support LangSmith tracing
- Check that you've saved the configuration after making changes

Benefits of LangSmith Integration

- Full Observability:** Track every interaction with your agent flow
 - Performance Monitoring:** Monitor latency and identify bottlenecks
 - Debugging:** View detailed traces to troubleshoot issues
 - Usage Analytics:** Understand how your agent is being used
 - Error Tracking:** Quickly identify and diagnose errors
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Additional Resources

- [LangSmith Documentation](#)
 - [Flowise Documentation](#)
 - [LangChain Documentation](#)
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Conclusion

You have successfully integrated LangSmith with your Flowise agent flow! You can now monitor, trace, and analyze all interactions with your AI agent through the LangSmith dashboard.

For advanced configuration options and evaluation features, refer to the official LangSmith documentation.