

Set up

Wednesday, 21 May 2025 11:20 PM

- <https://github.com/modelcontextprotocol/quickstart-resources>
- Clone
- Npm install (after deleting package.lock)
- Npm run build
 - Next step is to tell cursor how to use this MCP server

Create MCP Server's methods:

- **Manually** :: involves creating 100's of lines of code in python or NodeJS
- **AI** :: Using cursor / MCP Generator can be used
- **Community build** MCP Server's (MCP.so) :: take the thousands of readily available server's clone and modify

How to run :

- run locally via the standard input output channel
- run remotely via server sent events or SSH.
- run as Docker containers.

Methods:

- `from mcp.server.fastmcp import FastMCP`
Initialize FastMCP server
`mcp = FastMCP("weather")`
- `@mcp.tool()`
- `if __name__ == "__main__":`
Initialize and run the server
`mcp.run(transport='stdio')`

- Type of transport stdio and sse

 stdio Transport <ul style="list-style-type: none">- Runs on your local machine- Managed automatically by Cursor- Communicates directly via stdout- Only accessible by you locally	 SSE Transport <ul style="list-style-type: none">- Can run locally or remotely- Managed and run by you- Communicates over the network- Can be shared across machines
Input: Valid shell command that is ran by Cursor automatically	Input: URL to the /sse endpoint of an MCP server external to Cursor

<https://docs.cursor.com/context/model-context-protocol>

Configuration to tell cursor how to run:

<pre>// This example demonstrated an MCP server using the stdio format // Cursor automatically runs this process for you // This uses a Python server, ran with `python` { "mcpServers": { "server-name": { "command": "python", "args": ["mcp-server.py"], "env": { "API_KEY": "value" } } } }</pre>	<pre>// This example demonstrated an MCP server using the SSE format // The user should manually setup and run the server // This could be networked, to allow others to access it too { "mcpServers": { "server-name": { "url": "http://localhost:3000/sse", "env": { "API_KEY": "value" } } } }</pre>
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YOLO Mode : It will run automatically if it finds its relavant

Default Mode : It will ask for notifiacation asking whether to call this tool or not