

# 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

 <b>stdio Transport</b> - Runs on your local machine - Managed automatically by Cursor - Communicates directly via stdout - Only accessible by you locally	 <b>SSE Transport</b> - 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:

// 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" } } } }	// 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": " <a href='\"http://localhost:3000/sse\"'>http://localhost:3000/sse</a> ", "env": { "API_KEY": "value" } } } }
---	--

}

}

YOLO Mode : It will run automatically if it finds its relevant

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