

TECHNICAL FIELD GUIDE

Contriver Node Atlas MCP

Configuration Reference

A cross-platform setup guide for Claude Desktop, Cursor, and VS Code.

MCP SETUP • ABSOLUTE PATHS • DIAGNOSTICS

Substitute all paths marked ← with your actual values.
Paths shown from the development machine are templates, not defaults.

Configuration Reference
Contriver Node Atlas

Prerequisites (all agents, all platforms)

Requirement	Check
Python 3.10+	<code>python3 --version</code>
mcp[cli] installed for that interpreter	<code>python3 -c "import mcp; print('ok')"</code>
node_atlas_mcp.py at a known absolute path	<code>ls -l /your/path/node_atlas_mcp.py</code>
Node Atlas palette run at least once	Produces <code>node_atlas_current.json</code>

Install `mcp[cli]` for a specific interpreter (use the absolute path):

BASH

```
# macOS / Linux
/Users/YourName/Desktop/ContriverNodeAtlas/CONTRIVER\ NODE\ ATLAS\ MCP\venv/bin/
python -m pip install "mcp[cli]"
# ↑ substitute your interpreter

# Windows (PowerShell)
C:\Users\YourName\envs\nodeatlas\Scripts\python.exe -m pip install "mcp[cli]"
# ↑ substitute your interpreter
```

The only runtime knob is `NODE\_ATLAS\_EXPORT` — the absolute path to `node_atlas_current.json`.

If the env var is absent, the server falls back to:

```
| ~/Desktop/ContriverNodeAtlas/ContriverAtlas/node_atlas_current.json
```

Set it explicitly in every config block below to avoid the fallback silently pointing nowhere.

Restart rules

Change made	Action required
Any config file edited	Restart the MCP client
<code>NODE_ATLAS_EXPORT</code> value changed	Restart the MCP client (env is read at spawn)
Fusion design changed	Re-run the Node Atlas palette (it is the sole writer)
Add-in source changed	Restart Fusion

1. Claude Desktop

macOS

Config file:

| ~/Library/Application Support/Claude/claude_desktop_config.json

JSON

```
{
  "mcpServers": {
    "contriver-node-atlas": {
      "command": "/Users/YourName/Desktop/ContriverNodeAtlas/CONTRIVER NODE ATLAS
MCP/venv/bin/python",
      "args": [
        "/Users/YourName/Desktop/ContriverNodeAtlas/CONTRIVER NODE ATLAS MCP/
node_atlas_mcp.py"
      ],
      "env": {
        "NODE_ATLAS_EXPORT": "/Users/YourName/Desktop/ContriverNodeAtlas/ContriverAtlas/
node_atlas_current.json"
      }
    }
  }
}
```

Substitute:

- `command` ← absolute path to your Python interpreter
- first `args` entry ← absolute path to `node_atlas_mcp.py`
- `NODE_ATLAS_EXPORT` ← absolute path to `node_atlas_current.json`

Restart Claude Desktop after saving.

Windows

Config file:

| %APPDATA%\Claude\claude_desktop_config.json

JSON

```
{
  "mcpServers": {
    "contriver-node-atlas": {
      "command": "C:\\Users\\YourName\\envs\\nodeatlas\\Scripts\\python.exe",
      "args": [
        "C:\\Users\\YourName\\ContriverNodeAtlas\\node_atlas_mcp.py"
      ],
      "env": {
        "NODE_ATLAS_EXPORT": "C:\\Users\\YourName\\Desktop\\ContriverNodeAtlas\\
ContriverAtlas\\node_atlas_current.json"
      }
    }
  }
}
```

Substitute:

- `command` ← absolute path to your Python interpreter (use `where.exe python` to find it)
- first `args` entry ← absolute path to `node_atlas_mcp.py`
- `NODE_ATLAS_EXPORT` ← absolute path to `node_atlas_current.json`

Windows path note: use double backslashes `\\` or forward slashes `/` — both work in JSON. Do not use single `\`.

Restart Claude Desktop after saving.

2. Cursor

Applies to all projects opened in Cursor on this machine.

macOS

Config file:

```
| ~/.cursor/mcp.json
```

JSON

```
{
  "mcpServers": {
    "contriver-node-atlas": {
      "command": "/Users/YourName/Desktop/ContriverNodeAtlas/CONTRIVER NODE ATLAS
MCP/venv/bin/python",
      "args": [
        "/Users/YourName/Desktop/ContriverNodeAtlas/CONTRIVER NODE ATLAS MCP/
node_atlas_mcp.py"
      ],
      "env": {
        "NODE_ATLAS_EXPORT": "/Users/YourName/Desktop/ContriverNodeAtlas/ContriverAtlas/
node_atlas_current.json"
      }
    }
  }
}
```

Substitute the same three values as Claude Desktop (macOS) above. Restart Cursor after saving.

Windows

Config file:

```
| %USERPROFILE%\.cursor\mcp.json
```

JSON

```
{
  "mcpServers": {
    "contriver-node-atlas": {
      "command": "C:\\Users\\YourName\\envs\\nodeatlas\\Scripts\\python.exe",
      "args": [
        "C:\\Users\\YourName\\ContriverNodeAtlas\\node_atlas_mcp.py"
      ],
      "env": {
        "NODE_ATLAS_EXPORT": "C:\\Users\\YourName\\Desktop\\ContriverNodeAtlas\\
ContriverAtlas\\node_atlas_current.json"
      }
    }
  }
}
```

Substitute the same three values as Claude Desktop (Windows) above. Restart Cursor after saving.

Cursor — Project-Local Config

Overrides the global config for one project. Checked in to the repo if desired; add to `.gitignore` if the paths are machine-specific.

macOS

Config file (create if absent):

```
| <project-root>/cursor/mcp.json
```

JSON

```
{
  "mcpServers": {
    "contriver-node-atlas": {
      "command": "/Users/YourName/Desktop/ContriverNodeAtlas/CONTRIVER NODE ATLAS
MCP/venv/bin/python",
      "args": [
        "/Users/YourName/Desktop/ContriverNodeAtlas/CONTRIVER NODE ATLAS MCP/
node_atlas_mcp.py"
      ],
      "env": {
        "NODE_ATLAS_EXPORT": "/Users/YourName/Desktop/ContriverNodeAtlas/ContriverAtlas/
node_atlas_current.json"
      }
    }
  }
}
```

Windows

Config file (create if absent):

```
| <project-root>\.cursor\mcp.json
```

JSON

```
{
  "mcpServers": {
    "contriver-node-atlas": {
      "command": "C:\\Users\\YourName\\envs\\nodeatlas\\Scripts\\python.exe",
      "args": [
        "C:\\Users\\YourName\\ContriverNodeAtlas\\node_atlas_mcp.py"
      ],
      "env": {
        "NODE_ATLAS_EXPORT": "C:\\Users\\YourName\\Desktop\\ContriverNodeAtlas\\
ContriverAtlas\\node_atlas_current.json"
      }
    }
  }
}
```

Restart Cursor after saving either file.

3. VS Code

VS Code MCP support requires **VS Code 1.99 or later**. The config format differs from Cursor and Claude Desktop: the top-level key is "servers" (not "mcpServers") and each server requires "type": "stdio" explicitly.

Workspace Config

Scoped to one project. Preferred for project-specific export paths.

Config file (create if absent):

```
| <project-root>/vscode/mcp.json
```

macOS:

JSON

```
{
  "servers": {
    "contriver-node-atlas": {
      "type": "stdio",
      "command": "/Users/YourName/Desktop/ContriverNodeAtlas/CONTRIVER NODE ATLAS
MCP/venv/bin/python",
      "args": [
        "/Users/YourName/Desktop/ContriverNodeAtlas/CONTRIVER NODE ATLAS MCP/
node_atlas_mcp.py"
      ],
      "env": {
        "NODE_ATLAS_EXPORT": "/Users/YourName/Desktop/ContriverNodeAtlas/ContriverAtlas/
node_atlas_current.json"
      }
    }
  }
}
```

Windows:

JSON

```
{
  "servers": {
    "contriver-node-atlas": {
      "type": "stdio",
      "command": "C:\\Users\\YourName\\envs\\nodeatlas\\Scripts\\python.exe",
      "args": [
        "C:\\Users\\YourName\\ContriverNodeAtlas\\node_atlas_mcp.py"
      ],
      "env": {
        "NODE_ATLAS_EXPORT": "C:\\Users\\YourName\\Desktop\\ContriverNodeAtlas\\
ContriverAtlas\\node_atlas_current.json"
      }
    }
  }
}
```

VS Code — User Config

Applies to all workspaces. Reached via **Command Palette** → **"MCP: Open User Configuration"**.

Config file locations:

Platform	Path
macOS	~/Library/Application Support/Code/User/mcp.json
Windows	%APPDATA%\Code\User\mcp.json

Contents are identical to the workspace configs above — same "servers" key, same three substitutions.

Reload: After saving either file, open the Command Palette → **"MCP: List Servers"** — `contriver-node-atlas` should appear with status **running**. If it shows **stopped**, open the MCP output panel (**View** → **Output** → **MCP**) for the startup log.

Quick-reference: config file locations

Agent	Scope	macOS	Windows
Claude Desktop	global	~/Library/Application Support/Claude/claude_desktop_config.json	%APPDATA%\Claude\claude_desktop_config.json
Cursor	global	~/.cursor/mcp.json	%USERPROFILE%\cursor\mcp.json
Cursor	project	.cursor/mcp.json in project root	same
VS Code	user	~/Library/Application Support/Code/User/mcp.json	%APPDATA%\Code\User\mcp.json
VS Code	workspace	.vscode/mcp.json in project root	same

Diagnosing a failed start (all agents)

Run the server bare — fastest real diagnostic:

BASH

```
# macOS / Linux
/your/python /your/node_atlas_mcp.py

# Windows (PowerShell)
C:\your\python.exe C:\your\node_atlas_mcp.py
```

Instant traceback → **that traceback is your answer**

- **Sits silently** → server started fine; the problem is in the client config
- **`ModuleNotFoundError: No module named 'mcp'`** → wrong interpreter; this Python does not have `mcp[cli]`
- **`Node Atlas export not found`** → `NODE_ATLAS_EXPORT` points nowhere, or the palette has not been run yet

Ctrl+C to exit.