

pixelsock / directus-mcp Public

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pixelsock Merge pull request #19 from pixelsock/copilot/fix-transport-options-d...

a1ccda3 · 2 weeks ago

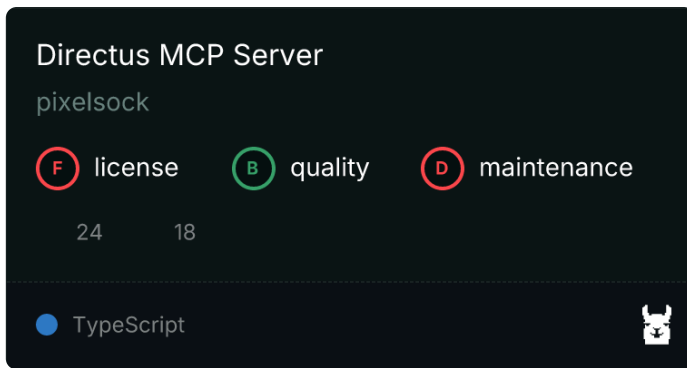
.env.example	Add streamable-http transport s...	2 weeks ago
.gitignore	Resolve merge conflict, keeping...	last year
Dockerfile	Add streamable-http transport s...	2 weeks ago
README.md	Add streamable-http transport s...	2 weeks ago
index.ts	Fix @modelcontextprotocol/insp...	2 weeks ago
package-lock.json	Fix @modelcontextprotocol/insp...	2 weeks ago
package.json	Fix @modelcontextprotocol/insp...	2 weeks ago
smithery.yaml	Add Smithery configuration	last year
tsconfig.json	initial commit	last year

README

Calls ▲ 0

Directus MCP Server

A Node.js server implementing Model Context Protocol (MCP) for Directus CMS. Enable AI Clients to interact with the [Directus API](#) through the Model Context Protocol (MCP).



i Prerequisites

- [Node.js](#)
- [NPM](#)
- [A Directus Instance](#)

Quick start

1. Get your Directus API credentials

- Go to your Directus instance
- Create a static access token or get your email and password
- Keep these credentials secure

2. Add to your AI editor

```
{
  "mcpServers": {
    "directus": {
      "command": "npx",
      "args": ["-y", "@pixelsock/directus-mcp@latest"],
      "env": {
        "DIRECTUS_URL": "https://your-directus-instance.com",
        "DIRECTUS_ACCESS_TOKEN": "YOUR_ACCESS_TOKEN"
      }
    }
  }
}
```

Alternatively, you can use email/password authentication:

```
{
  "mcpServers": {
    "directus": {
      "command": "npx",
      "args": ["-y", "@pixelsock/directus-mcp@latest"],
      "env": {
```

```
"DIRECTUS_URL": "https://your-directus-instance.com",  
"DIRECTUS_EMAIL": "your-email@example.com",  
"DIRECTUS_PASSWORD": "your-password"  
}  
}  
}
```

For Cursor:

- i. Go to Settings → Cursor Settings → MCP
- ii. Click + Add New Global MCP Server
- iii. Paste configuration
- iv. Replace placeholder values with your Directus credentials
- v. Save and **restart** Cursor

For Claude Desktop:

- i. Open Settings → Developer
- ii. Click Edit Config
- iii. Open `claude_desktop_config.json` in a code editor and paste configuration
- iv. Replace placeholder values with your Directus credentials
- v. Save and **restart** Claude

? Troubleshooting

If you are having issues starting the server in your MCP client e.g. Cursor or Claude Desktop, please try the following.

Ensure you have valid Directus credentials

1. Verify that your Directus URL is correct and accessible
2. Check that your access token or email/password credentials are valid
3. Replace the credentials in your MCP client configuration
4. Save and **restart** your MCP client

Ensure you have Node and NPM installed

- [Node.js](#)
- [NPM](#)

Run the following commands to confirm you have Node and NPM installed:

```
node -v  
npm -v
```



Clear your NPM cache

Sometimes clearing your [NPM cache](#) can resolve issues with `npx`.

```
npm cache clean --force
```



Available tools

Collections and Items

```
getItems          // Get items from a collection
getItem           // Get a single item from a collection by ID
createItem        // Create a new item in a collection
updateItem        // Update an existing item in a collection
deleteItem        // Delete an item from a collection
getCollections    // Get all collection schemas
getFields         // Get fields for a collection
getRelations      // Get relations for a collection
```



Files

```
getFiles          // Get files from Directus
uploadFile        // Upload a file to Directus
```



Users and Permissions

```
login            // Login to Directus and get an access token
getUsers         // Get users from Directus
getCurrentUser   // Get the current user info
getRoles         // Get roles from Directus
getPermissions   // Get permissions from Directus
```



System

```
getSystemInfo    // Get system information from Directus
getActivity       // Get activity logs from Directus
getConfig        // Get current configuration information
```



Development mode

If you want to run the server in development mode:

1. Clone and install:

```
git clone https://github.com/pixelsock/directus-mcp.git
cd directus-mcp
npm install
```



2. Add your credentials to `.env` :

```
# .env
DIRECTUS_URL=https://your-directus-instance.com
DIRECTUS_ACCESS_TOKEN=your_token_here
# Or use email/password
DIRECTUS_EMAIL=your-email@example.com
DIRECTUS_PASSWORD=your-password
```



3. Start development server:

```
npm run dev
```



HTTP transport (multi-user / remote deployments)

By default the server uses the `stdio` transport, which is ideal for single-user local AI editors (Cursor, Claude Desktop, etc.).

For **multi-user** or **remote** environments you can switch to the [Streamable HTTP transport](#) by setting the `MCP_TRANSPORT` environment variable.

Configuration

Environment variable	Default	Description
<code>MCP_TRANSPORT</code>	<code>stdio</code>	Transport mode: <code>stdio</code> or <code>http</code> / <code>streamable-http</code>
<code>MCP_PORT</code>	<code>3000</code>	TCP port the HTTP server listens on
<code>MCP_HOST</code>	<code>127.0.0.1</code>	Host/interface to bind. Use <code>0.0.0.0</code> to bind all interfaces

You can also pass `--transport=http` as a CLI argument instead of setting the environment variable.

Running the HTTP server

```
# Via environment variable
MCP_TRANSPORT=http MCP_PORT=3000 MCP_HOST=0.0.0.0 node dist/index.js

# Via CLI argument
node dist/index.js --transport=http
```



Docker example

```
docker run -p 3000:3000 \  
-e DIRECTUS_URL=https://your-directus-instance.com \  
-e DIRECTUS_ACCESS_TOKEN=your_token_here \  
-e MCP_TRANSPORT=http \  
-e MCP_HOST=0.0.0.0 \  
ghcr.io/pixelsock/directus-mcp
```



Connecting an MCP client to the HTTP server

Once the server is running, configure your MCP client to connect to:

```
http://<host>:<port>/mcp
```



For example with a client that supports the Streamable HTTP transport:

```
{  
  "mcpServers": {  
    "directus": {  
      "url": "http://localhost:3000/mcp"  
    }  
  }  
}
```



 [Directus Developer resources](#)

Releases

No releases published

Packages

No packages published

Contributors 5



Languages

 TypeScript 97.1%  Dockerfile 2.9%

