

Toowiredd / chatgpt-mcp-server Public

<> Code Issues 2 Pull requests 2 Actions Projects Security and quality

4 Branches 0 Tags Go to file Go to file <> Code ...

Toowiredd Merge pull request #2 from smithery-ai/smithery/config-hqn6

b274e16 · last year

src	refactor: Remove AI plugin a...	last year
.gitignore	Initial commit: Docker-enable...	last year
Dockerfile	fix: Update Dockerfile to han...	last year
README.md	Merge pull request #2 from s...	last year
env.example	Initial commit: Docker-enable...	last year
examples.md	Initial commit: Docker-enable...	last year
nginx.conf	refactor: Remove AI plugin a...	last year
openapi.yaml	refactor: Remove AI plugin a...	last year
package-lock.json	refactor: Remove AI plugin a...	last year
package.json	docs: Update repository infor...	last year
setup.sh	Initial commit: Docker-enable...	last year
smithery.yaml	Add Smithery configuration	last year
tsconfig.json	Initial commit: Docker-enable...	last year

README



ChatGPT MCP Server

Calls ▲ 0

A Model Context Protocol (MCP) server that provides Docker management capabilities through a custom GPT interface.

Features

- Docker container management through natural language
- Built on the Model Context Protocol (MCP)
- TypeScript implementation
- Containerized deployment
- Robust error handling and graceful shutdown
- Resource management and port handling
- Rate limiting and API key authentication

Setup

Installing via Smithery

To install ChatGPT MCP Server for Claude Desktop automatically via [Smithery](#):

```
npx -y @smithery/cli install @Toowiredd/chatgpt-mcp-server --client claude
```



Manual Installation

1. Clone the repository

```
git clone https://github.com/toowiredd/chatgpt-mcp-server.git  
cd chatgpt-mcp-server
```



2. Install dependencies

```
npm install
```



3. Create environment file

```
cp env.example .env  
# Edit .env with your configuration
```



4. Build the project

```
npm run build
```



Running with Docker

1. Build the container

```
npm run docker:build
```



2. Run the container

```
npm run docker:run
```



Or manually:

```
docker run -d \  
  -p 3001:3001 \  
  --env-file .env \  
  -v /var/run/docker.sock:/var/run/docker.sock \  
  chatgpt-mcp-server
```



Development

- `npm run build` - Build the TypeScript code
- `npm run watch` - Watch for changes and rebuild
- `npm run inspector` - Run the MCP inspector tool

Environment Variables

- `API_KEY` - API authentication key
- `HTTP_PORT` - Server port (default: 3001)
- `RATE_LIMIT_REQUESTS` - Maximum requests per window
- `RATE_LIMIT_WINDOW` - Window size in milliseconds

Resource Management

The server implements robust resource management:

- Graceful shutdown on process signals (SIGINT, SIGTERM, SIGQUIT)

- Connection tracking and management
- Request timeout handling
- Port conflict detection
- Keep-alive connection management
- Active request tracking and graceful completion

Shutdown Process

1. The server initiates graceful shutdown on process signals
2. New connections are rejected
3. Active requests are allowed to complete (with timeout)
4. Keep-alive connections are closed
5. Server ports are properly released
6. Resources are properly released

Error Handling

- Port conflicts are detected and reported
- Unhandled rejections and exceptions are caught
- Network errors are properly handled
- Resource leaks are prevented through proper handling
- Timeouts ensure the server doesn't hang during shutdown

License

MIT

Releases

No releases published

Packages

No packages published

Contributors 2



Toowiredd



calclavia Henry Mao

Languages

