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#### **Tutorials**

# Inspector

In-depth guide to using the MCP Inspector for testing and debugging Model Context Protocol servers

The **MCP Inspector** is an interactive developer tool for testing and debugging MCP servers. While the **Debugging Guide** covers the Inspector as part of the overall debugging toolkit, this document provides a detailed exploration of the Inspector's features and capabilities.

## **Getting started**

### Installation and basic usage

The Inspector runs directly through | npx | without requiring installation:

npx @modelcontextprotocol/inspector <command>

npx @modelcontextprotocol/inspector <command> <arg1> <arg2>

### Inspecting servers from NPM or PyPi

A common way to start server packages from **NPM** or **PyPi**.

NPM package

PyPi package



Model Context Protocot protocol/inspector npx <package-name> <args>

# For example

npx -y @modelcontextprotocol/inspector npx server-postgres postgres://127.0.0.1/t Tutorials > Inspector

### Inspecting locally developed servers

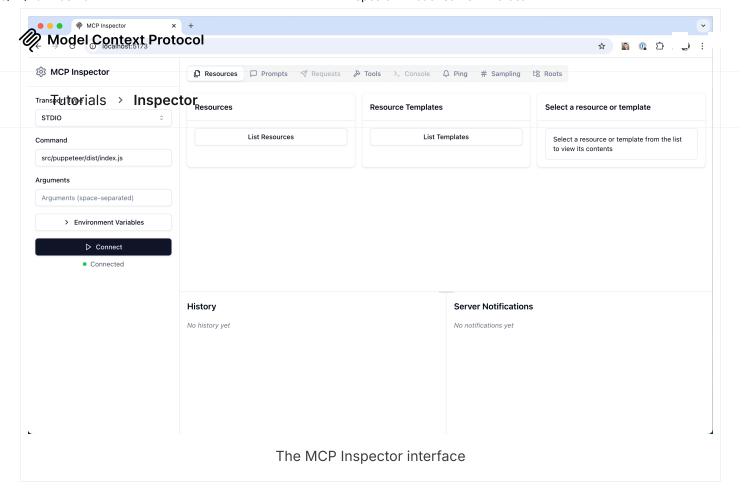
To inspect servers locally developed or downloaded as a repository, the most common way is:

#### **Python TypeScript**

npx @modelcontextprotocol/inspector node path/to/server/index.js args...

Please carefully read any attached README for the most accurate instructions.

## **Feature overview**



The Inspector provides several features for interacting with your MCP server:

### Server connection pane

Allows selecting the transport for connecting to the server

For local servers, supports customizing the command-line arguments and environment

### Resources tab

Lists all available resources

Shows resource metadata (MIME types, descriptions)

Allows resource content inspection

Supports subscription testing

### **Prompts tab**



Displays available prompt templates

**Model Context Protocol** 

Shows prompt arguments and descriptions

Finables prompt testing with custom arguments

Previews generated messages

#### Tools tab

Lists available tools

Shows tool schemas and descriptions

Enables tool testing with custom inputs

Displays tool execution results

### **Notifications pane**

Presents all logs recorded from the server

Shows notifications received from the server

## **Best practices**

### **Development workflow**

#### 1. Start Development

Launch Inspector with your server

Verify basic connectivity

Check capability negotiation

### 2. Iterative testing

Make server changes

Rebuild the server

Reconnect the Inspector



## 3. Heterialage Inspector

Invalid inputs

Missing prompt arguments

Concurrent operations

Verify error handling and error responses

## **Next steps**

#### **Inspector Repository**

Check out the MCP Inspector source code

#### **Debugging Guide**

Learn about broader debugging strategies

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Yes



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