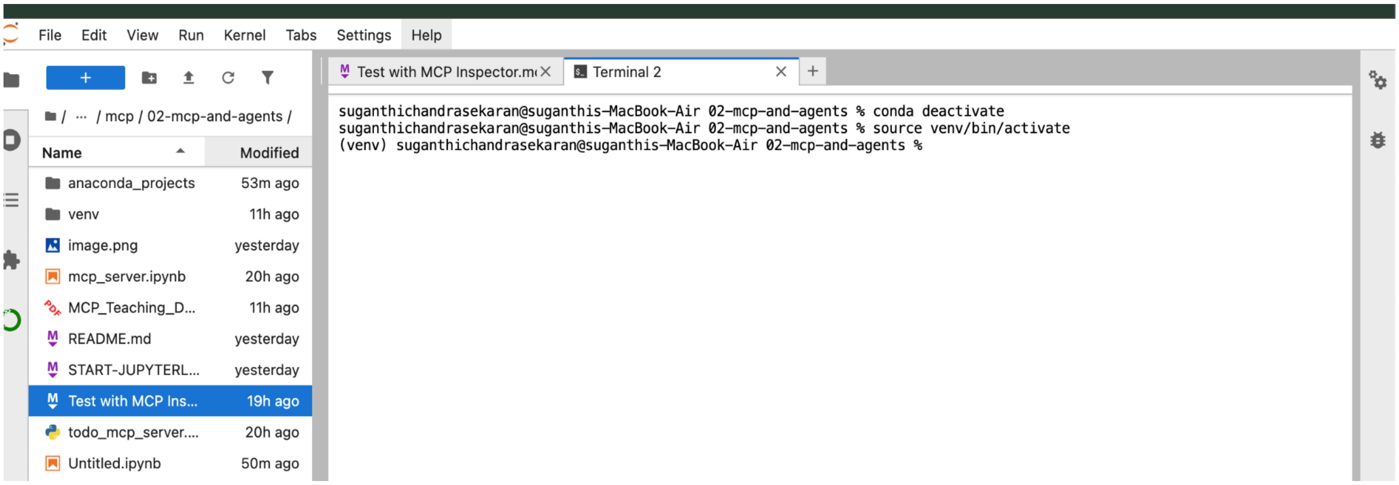
Navigate to the folder , where you have placed your .py file of the mcp server

cd /Users/suganthichandrasekaran/Documents/AI-engg/new/justmiles/mcp/02-mcp-and-agents

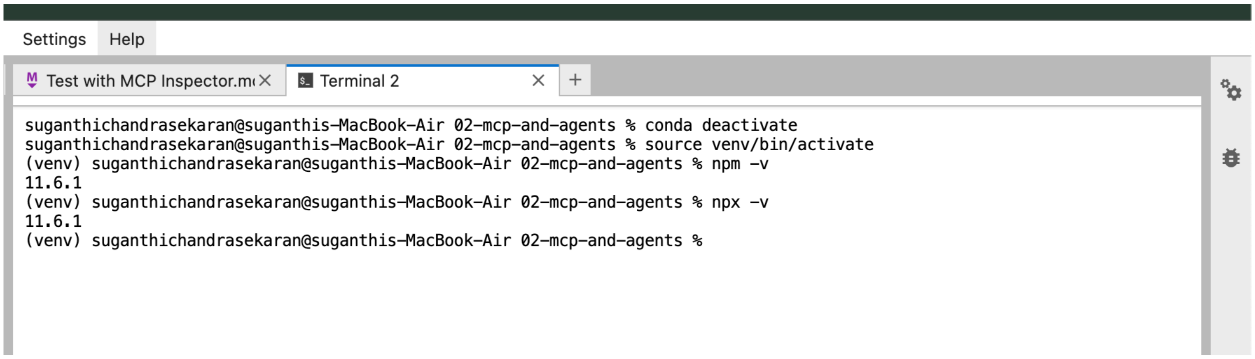
conda deactivate # run until (base) disappears

source venv/bin/activate



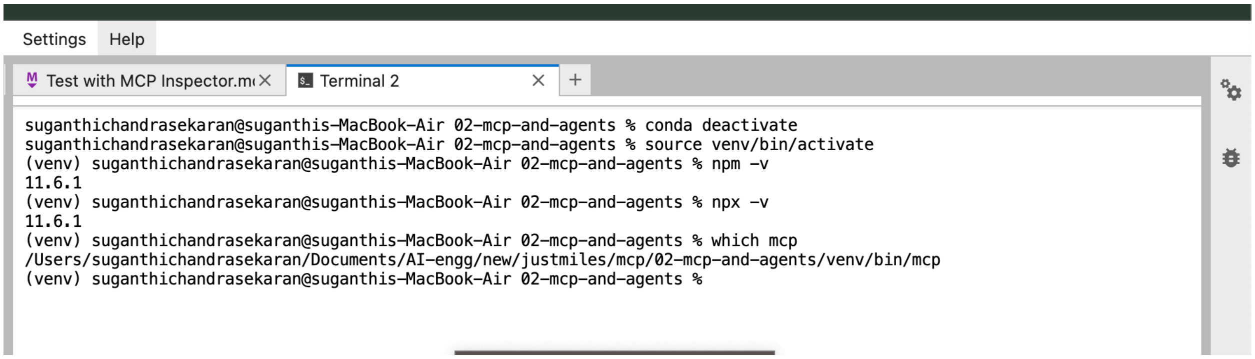
```
suganthichandrasekaran@suganthis-MacBook-Air 02-mcp-and-agents % conda deactivate
suganthichandrasekaran@suganthis-MacBook-Air 02-mcp-and-agents % source venv/bin/activate
(venv) suganthichandrasekaran@suganthis-MacBook-Air 02-mcp-and-agents %
```

Check if npm is installed . If npm is not available, download and install node.js



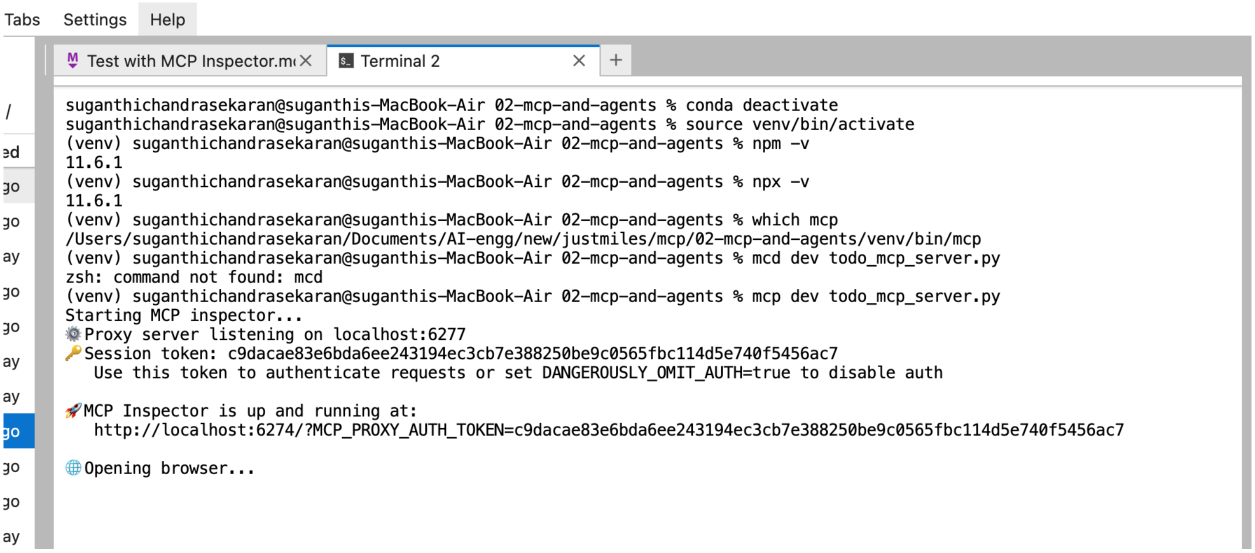
```
suganthichandrasekaran@suganthis-MacBook-Air 02-mcp-and-agents % conda deactivate
suganthichandrasekaran@suganthis-MacBook-Air 02-mcp-and-agents % source venv/bin/activate
(venv) suganthichandrasekaran@suganthis-MacBook-Air 02-mcp-and-agents % npm -v
11.6.1
(venv) suganthichandrasekaran@suganthis-MacBook-Air 02-mcp-and-agents % npx -v
11.6.1
(venv) suganthichandrasekaran@suganthis-MacBook-Air 02-mcp-and-agents %
```

Check for mcp in your venv



```
suganthichandrasekaran@suganthis-MacBook-Air 02-mcp-and-agents % conda deactivate
suganthichandrasekaran@suganthis-MacBook-Air 02-mcp-and-agents % source venv/bin/activate
(venv) suganthichandrasekaran@suganthis-MacBook-Air 02-mcp-and-agents % npm -v
11.6.1
(venv) suganthichandrasekaran@suganthis-MacBook-Air 02-mcp-and-agents % npx -v
11.6.1
(venv) suganthichandrasekaran@suganthis-MacBook-Air 02-mcp-and-agents % which mcp
/Users/suganthichandrasekaran/Documents/AI-engg/new/justmiles/mcp/02-mcp-and-agents/venv/bin/mcp
(venv) suganthichandrasekaran@suganthis-MacBook-Air 02-mcp-and-agents %
```

Invoke MCP Inspector via “mcp dev todo_mcp_server.py” → todo_mcp_server.py is your mcp server

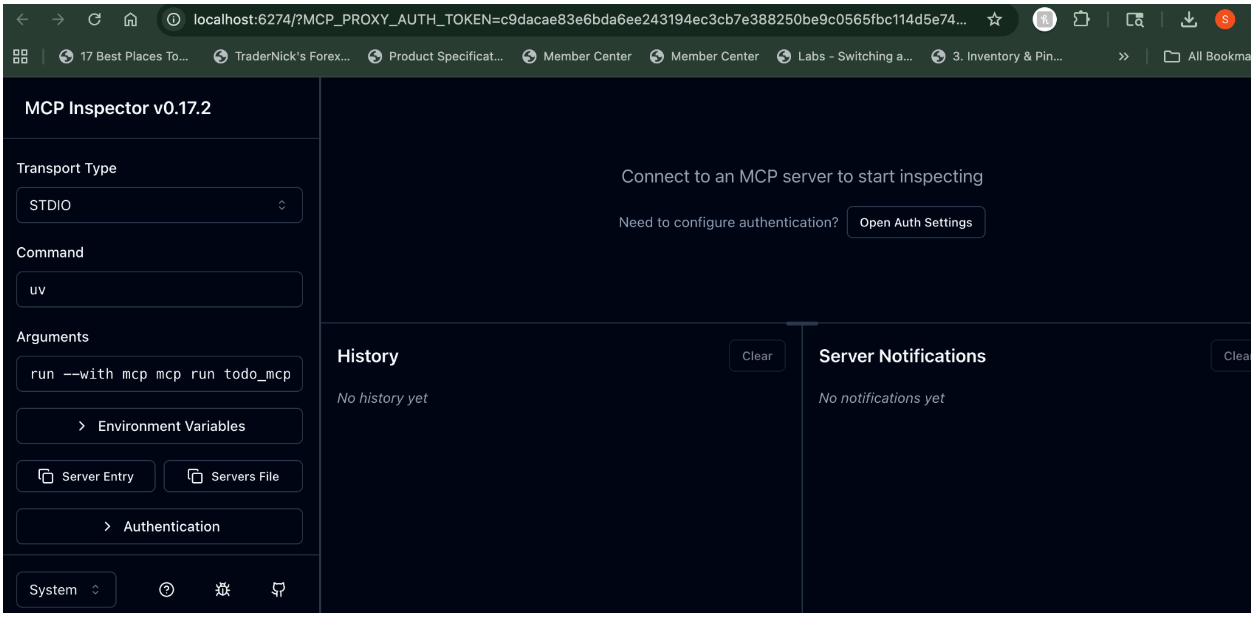


```
suganthichandrasekaran@suganthis-MacBook-Air 02-mcp-and-agents % conda deactivate
suganthichandrasekaran@suganthis-MacBook-Air 02-mcp-and-agents % source venv/bin/activate
(venv) suganthichandrasekaran@suganthis-MacBook-Air 02-mcp-and-agents % npm -v
11.6.1
(venv) suganthichandrasekaran@suganthis-MacBook-Air 02-mcp-and-agents % npx -v
11.6.1
(venv) suganthichandrasekaran@suganthis-MacBook-Air 02-mcp-and-agents % which mcp
/Users/suganthichandrasekaran/Documents/AI-engg/new/justmiles/mcp/02-mcp-and-agents/venv/bin/mcp
(venv) suganthichandrasekaran@suganthis-MacBook-Air 02-mcp-and-agents % mcd dev todo_mcp_server.py
zsh: command not found: mcd
(venv) suganthichandrasekaran@suganthis-MacBook-Air 02-mcp-and-agents % mcp dev todo_mcp_server.py
Starting MCP inspector...
⚙️Proxy server listening on localhost:6277
🔑Session token: c9dacae83e6bda6ee243194ec3cb7e388250be9c0565fbc114d5e740f5456ac7
   Use this token to authenticate requests or set DANGEROUSLY_OMIT_AUTH=true to disable auth

🚀MCP Inspector is up and running at:
   http://localhost:6274/?MCP_PROXY_AUTH_TOKEN=c9dacae83e6bda6ee243194ec3cb7e388250be9c0565fbc114d5e740f5456ac7

🌐Opening browser...
```

MCP Inspector will open in port 6274



localhost:6274/?MCP_PROXY_AUTH_TOKEN=c9dacae83e6bda6ee243194ec3cb7e388250be9c0565fbc114d5e74...

MCP Inspector v0.17.2

Transport Type: STDIO

Command: uv

Arguments: run --with mcp mcp run todo_mcp

Connect to an MCP server to start inspecting

Need to configure authentication?

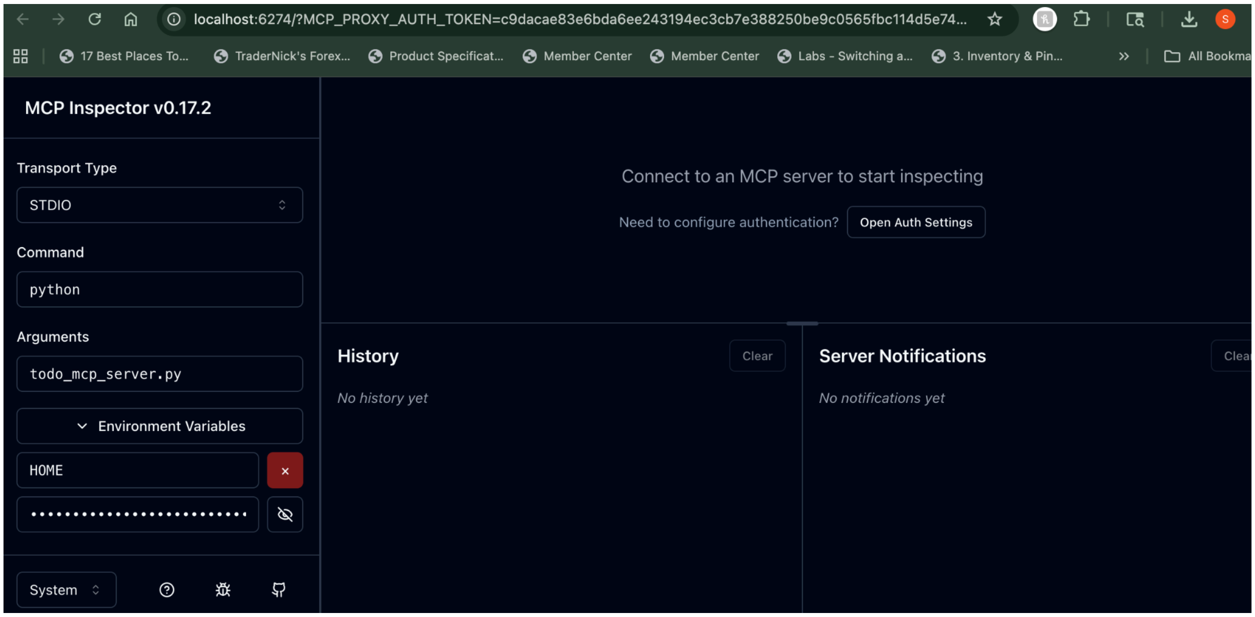
History

No history yet

Server Notifications

No notifications yet

Update command to “python” and Arguments to “todo_mcp_server.py”



localhost:6274/?MCP_PROXY_AUTH_TOKEN=c9dacae83e6bda6ee243194ec3cb7e388250be9c0565fbc114d5e74...

MCP Inspector v0.17.2

Transport Type: STDIO

Command: python

Arguments: todo_mcp_server.py

Environment Variables: HOME = ••••••••••••••••••••••••••

Connect to an MCP server to start inspecting

Need to configure authentication?

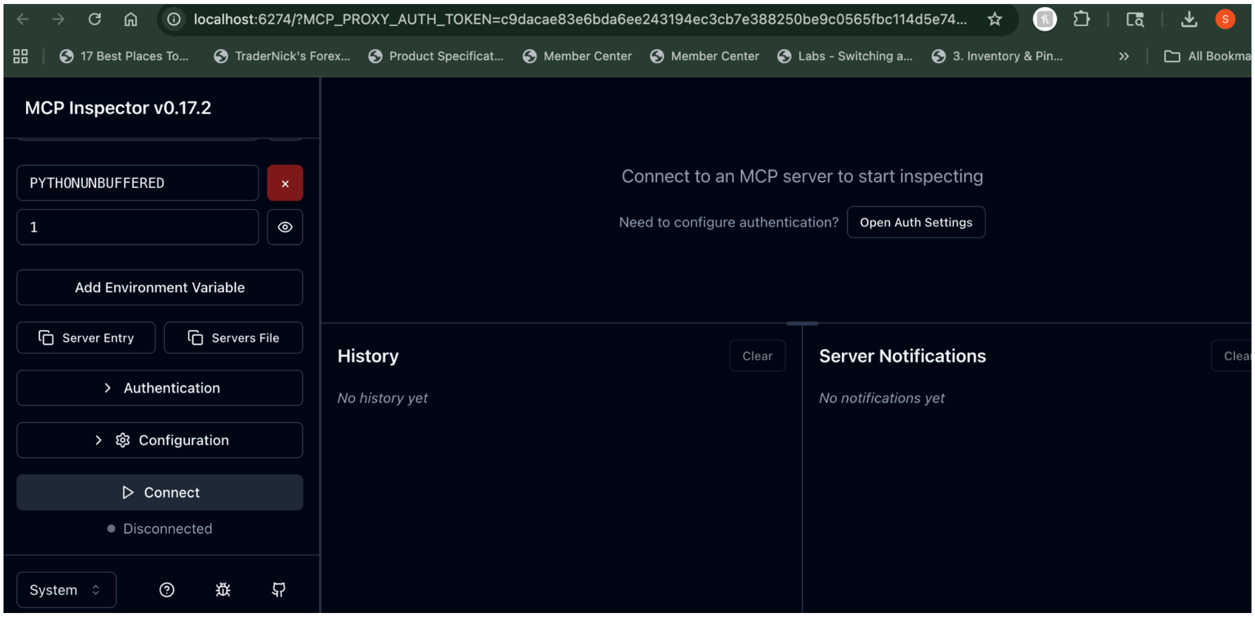
History

No history yet

Server Notifications

No notifications yet

Add an environment variable `PYTHONUNBUFFERED=1`



localhost:6274/?MCP_PROXY_AUTH_TOKEN=c9dacae83e6bda6ee243194ec3cb7e388250be9c0565fbc114d5e74...

MCP Inspector v0.17.2

PYTHONUNBUFFERED

1

Connect to an MCP server to start inspecting

Need to configure authentication?

History

No history yet

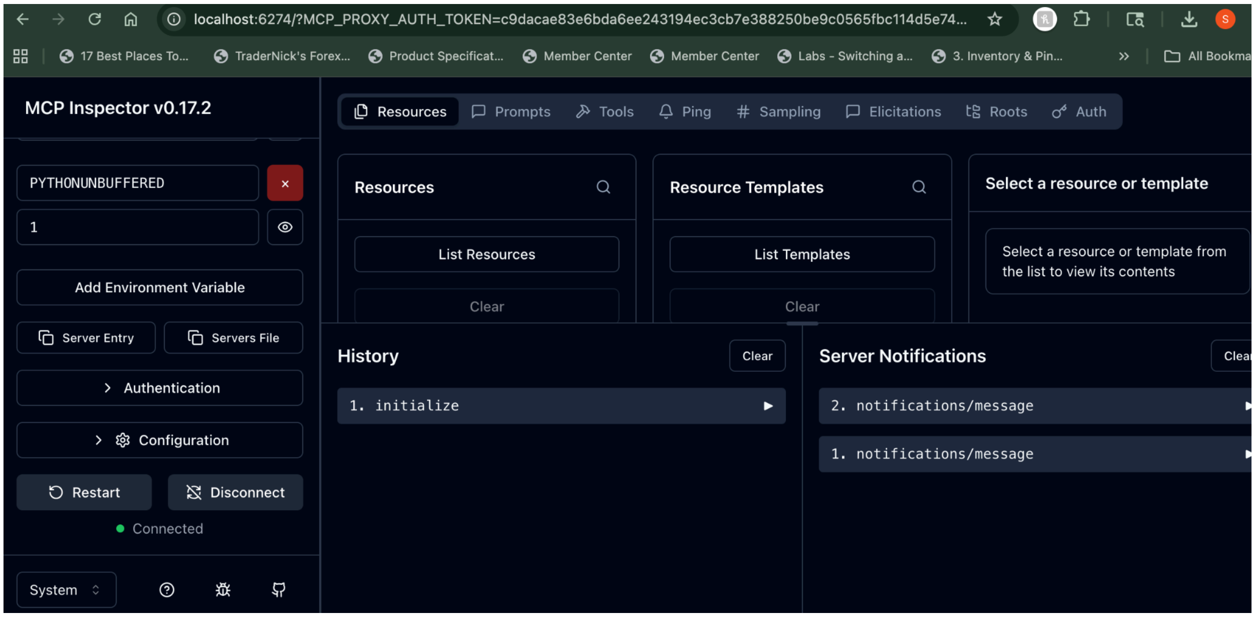
Server Notifications

No notifications yet

Disconnected

`Click on “Connect”`

`Once the MCP Inspector is connected to your mcp server → It will show as connected.`



localhost:6274/?MCP_PROXY_AUTH_TOKEN=c9dacae83e6bda6ee243194ec3cb7e388250be9c0565fbc114d5e74...

MCP Inspector v0.17.2

PYTHONUNBUFFERED

1

Resources

Resource Templates

Select a resource or template

Select a resource or template from the list to view its contents

History

```
1. initialize
```

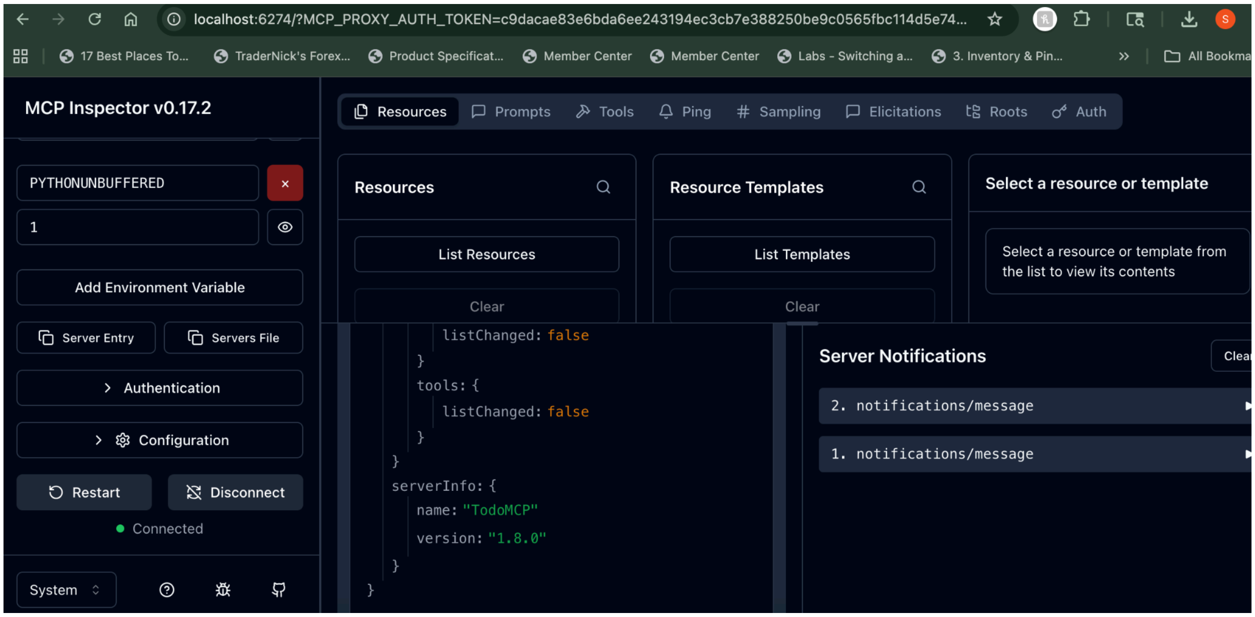
Server Notifications

```
2. notifications/message
1. notifications/message
```

Connected

In the json response of initialize, you will see your mcp server name;

“ToDoMCP” is your mcp server name from the .py file



PYTHONUNBUFFERED

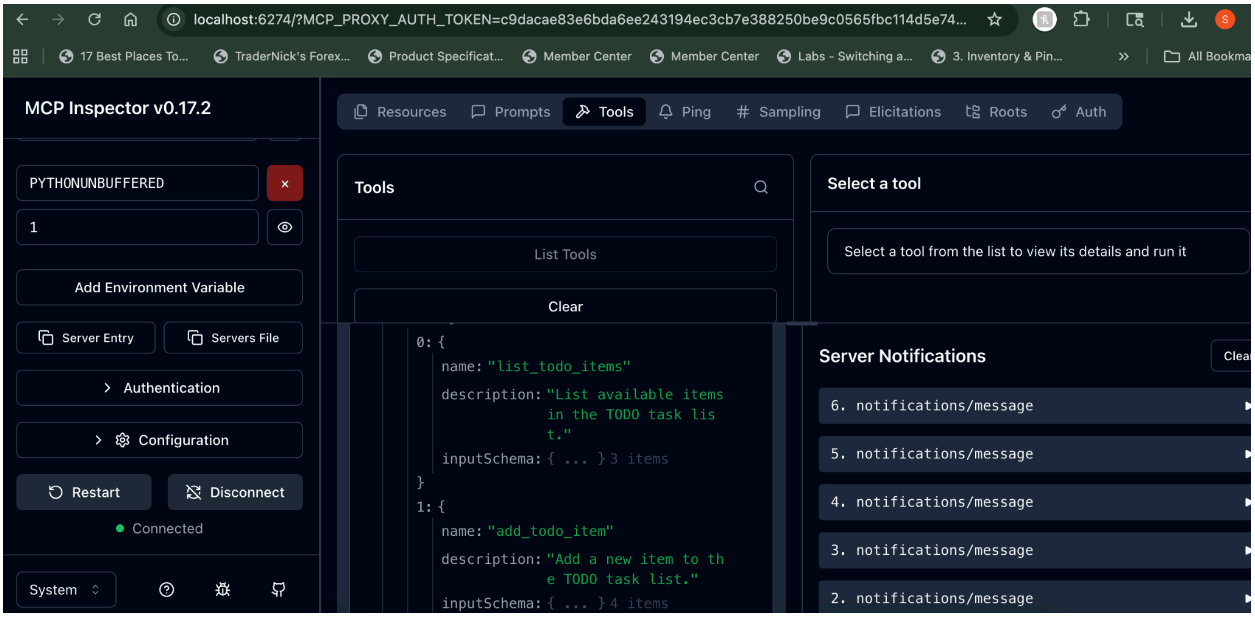
1

Select a resource or template from the list to view its contents

```
      listChanged: false
    }
    tools: {
      listChanged: false
    }
  }
  serverInfo: {
    name: "TodoMCP"
    version: "1.8.0"
  }
}
```

```
2. notifications/message
1. notifications/message
```

Click on tools in the top menu and ‘list tools’. You can see the list of tools in the json response.



PYTHONUNBUFFERED

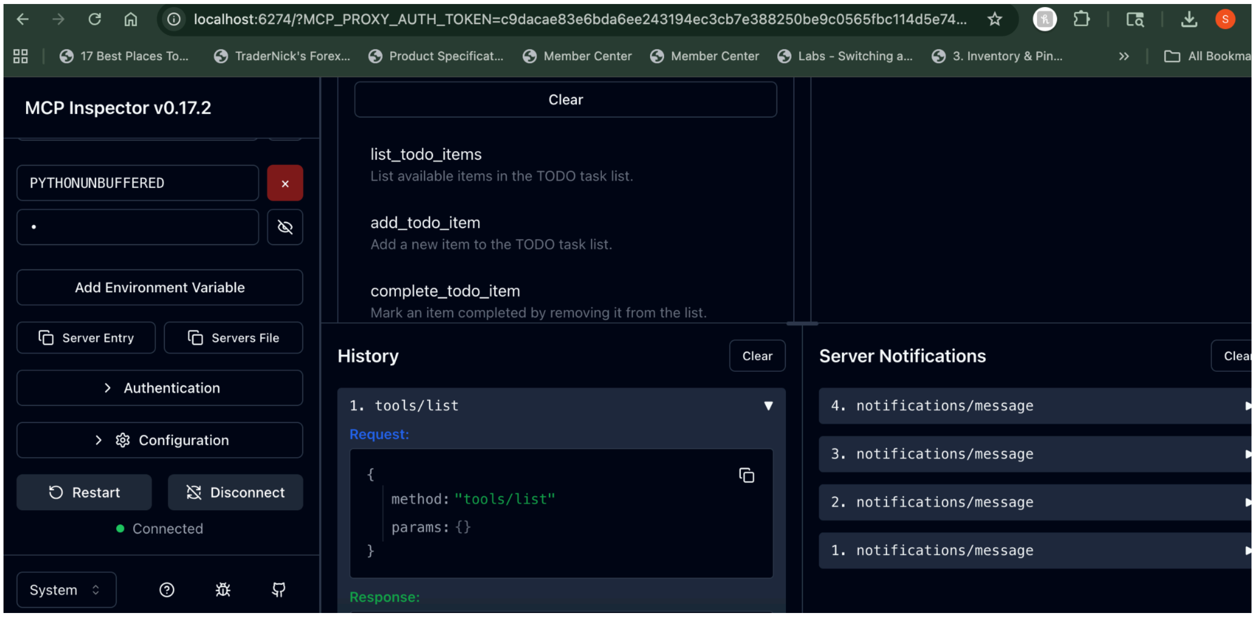
1

Select a tool from the list to view its details and run it

```
    0: {
      name: "list_todo_items"
      description: "List available items
                    in the TODO task lis
                    t."
      inputSchema: { ... } 3 items
    }
    1: {
      name: "add_todo_item"
      description: "Add a new item to th
                    e TODO task list."
      inputSchema: { ... } 4 items
```

```
6. notifications/message
5. notifications/message
4. notifications/message
3. notifications/message
2. notifications/message
```

In a few mins, you will also see the list of tools



PYTHONUNBUFFERED

list_todo_items
List available items in the TODO task list.

add_todo_item
Add a new item to the TODO task list.

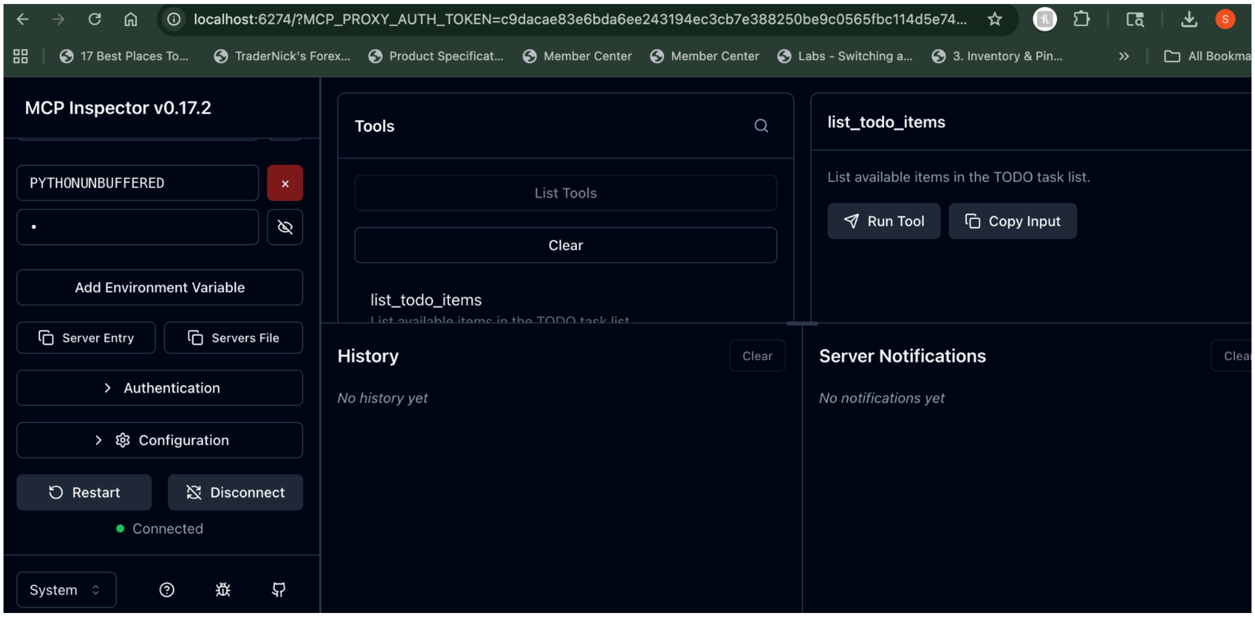
complete_todo_item
Mark an item completed by removing it from the list.

```
1. tools/list
Request:
{
  method: "tools/list"
  params: {}
}
Response:
```

```
4. notifications/message
3. notifications/message
2. notifications/message
1. notifications/message
```

Now, select the tool that you wanted to test .

On selecting the tool, you will get the below screen



PYTHONUNBUFFERED

list_todo_items
List available items in the TODO task list.

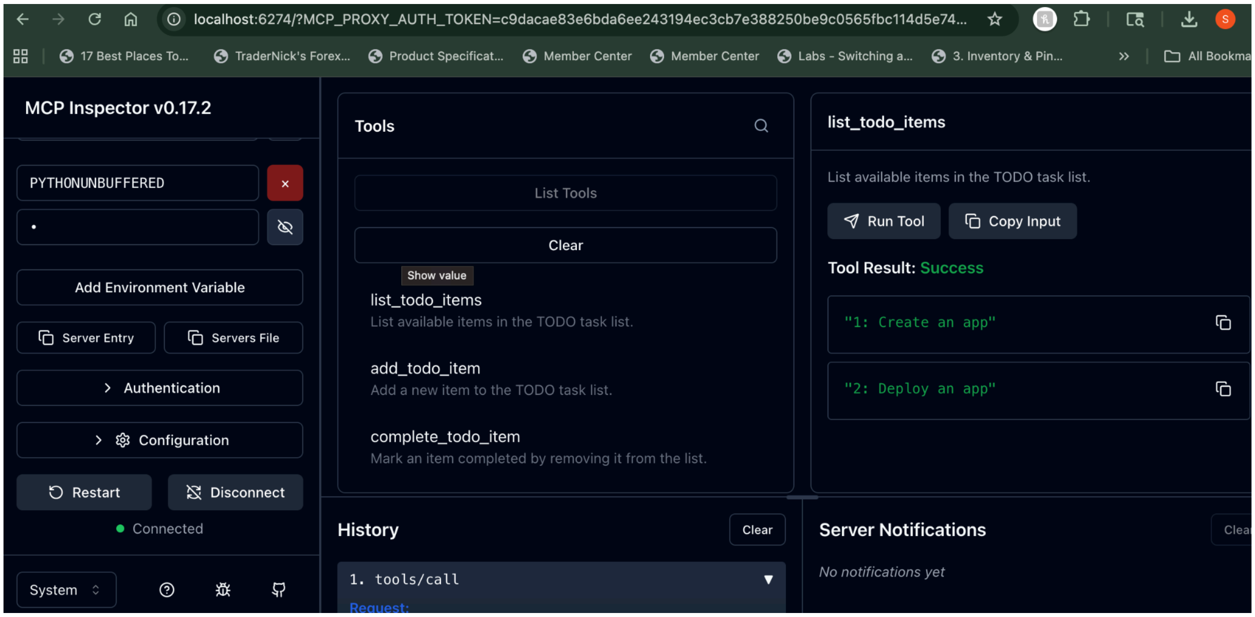
list_todo_items

List available items in the TODO task list.

No history yet

No notifications yet

On clicking the “Run tool” you can see the result of “list_todo_items”



PYTHONUNBUFFERED

list_todo_items
List available items in the TODO task list.

add_todo_item
Add a new item to the TODO task list.

complete_todo_item
Mark an item completed by removing it from the list.

list_todo_items

List available items in the TODO task list.

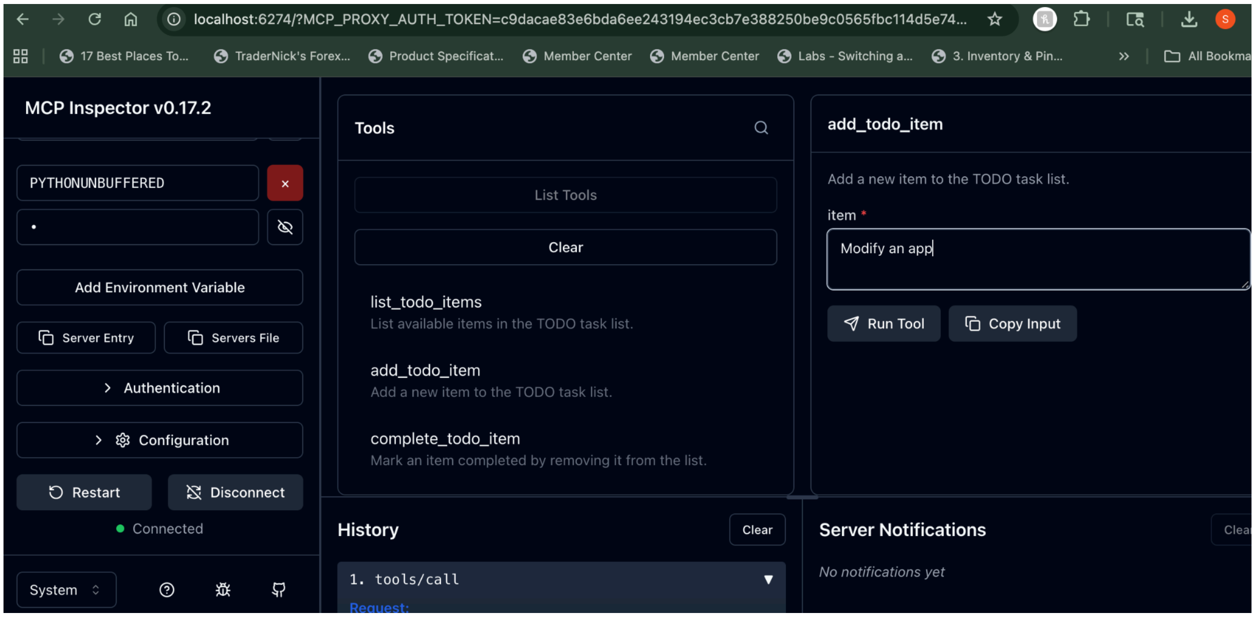
Tool Result: Success

```
"1: Create an app"
"2: Deploy an app"
```

```
1. tools/call
Request:
```

No notifications yet

Selected the tool “add_todo_item” and added an item



PYTHONUNBUFFERED

list_todo_items
List available items in the TODO task list.

add_todo_item
Add a new item to the TODO task list.

complete_todo_item
Mark an item completed by removing it from the list.

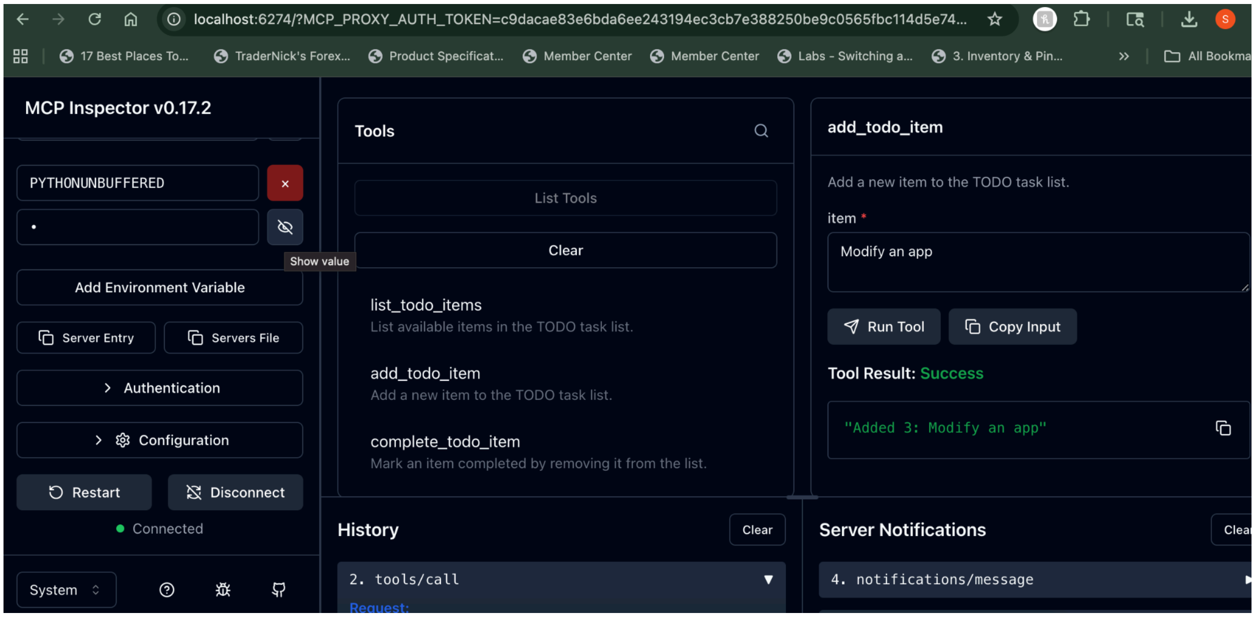
add_todo_item

Add a new item to the TODO task list.

item *: Modify an app

```
1. tools/call
Request:
```

No notifications yet



add_todo_item

list_todo_items
List available items in the TODO task list.

add_todo_item
Add a new item to the TODO task list.

complete_todo_item
Mark an item completed by removing it from the list.

Add a new item to the TODO task list.

item *

Modify an app

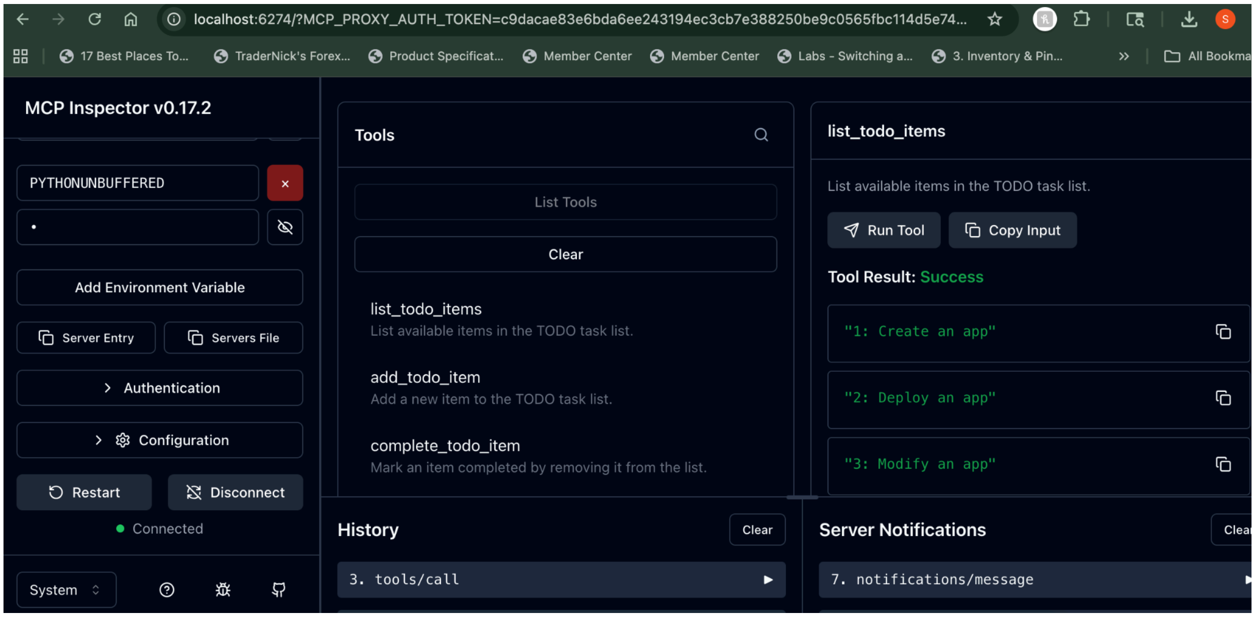
Tool Result: Success

```
"Added 3: Modify an app"
```

```
2. tools/call
Request:
```

```
4. notifications/message
```

Now , calling the list tool again



list_todo_items

list_todo_items
List available items in the TODO task list.

add_todo_item
Add a new item to the TODO task list.

complete_todo_item
Mark an item completed by removing it from the list.

List available items in the TODO task list.

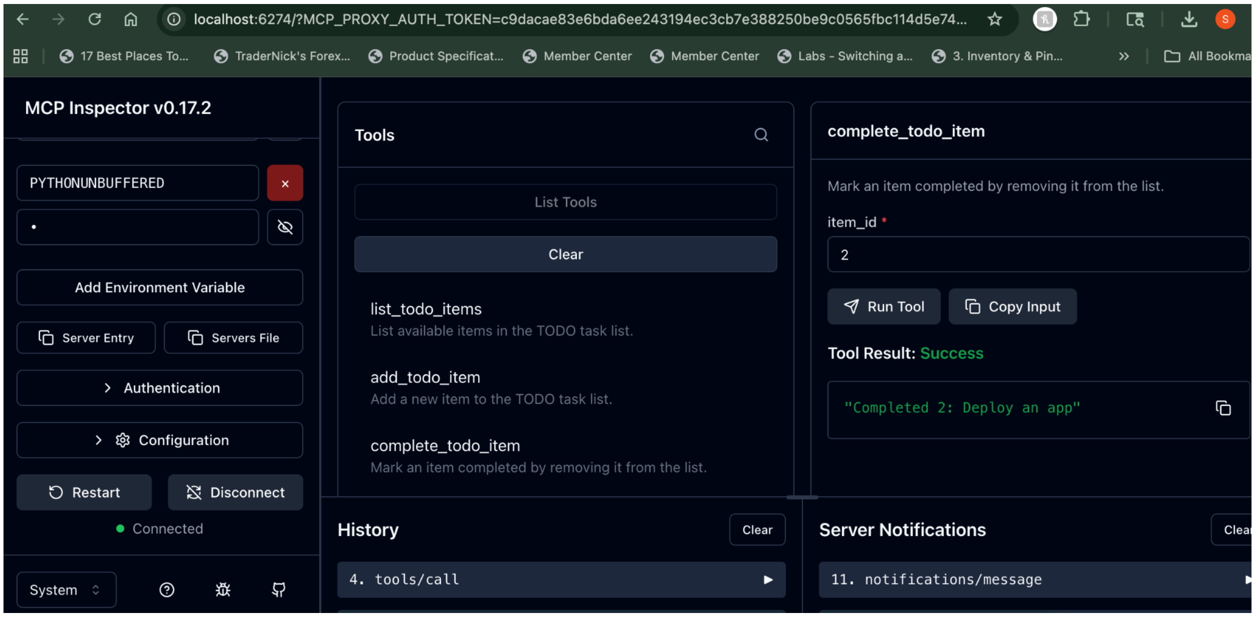
Tool Result: Success

```
"1: Create an app"
"2: Deploy an app"
"3: Modify an app"
```

```
3. tools/call
```

```
7. notifications/message
```

Now, called the tool “complete_todo_item” and gave the inputs to remove item 2



PYTHONUNBUFFERED

•

list_todo_items
List available items in the TODO task list.

add_todo_item
Add a new item to the TODO task list.

complete_todo_item
Mark an item completed by removing it from the list.

complete_todo_item

Mark an item completed by removing it from the list.

item_id *

2

Tool Result: Success

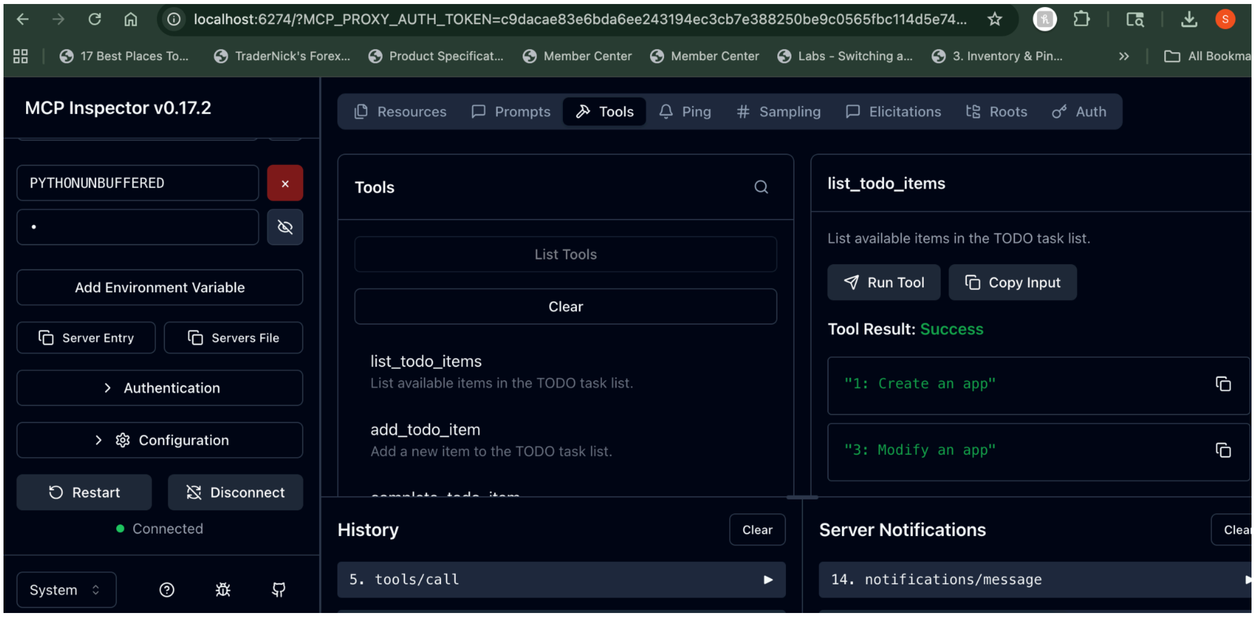
```
"Completed 2: Deploy an app"
```

```
4. tools/call
```

```
11. notifications/message
```

Calling the first tool , to list the items .

You can see the second item is not present in the list now.



PYTHONUNBUFFERED

•

list_todo_items
List available items in the TODO task list.

add_todo_item
Add a new item to the TODO task list.

complete_todo_item

list_todo_items

List available items in the TODO task list.

Tool Result: Success

```
"1: Create an app"
```

```
"3: Modify an app"
```

```
5. tools/call
```

```
14. notifications/message
```