

HOWTO — kali_server & mcp_server (Quick Guide)

This short HOWTO shows how to install and run two files: - **kali_server.py** — Flask API exposing Kali tools. - **mcp_server.py** — MCP client connecting to that API.

1 Requirements

- Kali Linux or Linux host with: `nmap`, `gobuster`, `dirb`, `nikto`, `sqlmap`, `metasploit-framework`, `hydra`, `john`, `wpscan`, `enum4linux`.
- Python 3.8+, `pip`, and network access between both components.

2 Setup

```
python3 -m venv .venv
source .venv/bin/activate
pip install flask requests
```

Set environment variables:

```
export API_PORT=5000
export WPSCAN_API_TOKEN="your_token_here"
```

3 Run the API Server (kali_server.py)

```
python kali_server.py --port 5000 --debug
```

Check:

```
curl http://localhost:5000/health
```

4 Run the MCP Client (mcp_server.py)

```
python mcp_server.py --server http://<KALI_IP>:5000
```

It registers tools like `nmap_scan`, `gobuster_scan`, `hydra_attack`, etc.

5 Example Usage

```
curl -X POST -H 'Content-Type: application/json'
-d '{"command": "whoami"}'
http://localhost:5000/api/command
```

6 Security

- Never expose server publicly.
 - Add token-based auth and HTTPS.
 - Run as non-root user or inside a container.
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7 Common Issues

- **ImportError mcp.server.fastmcp** → install or fix path.
 - **Missing tools in /health** → install them.
 - **wpscan error** → add token or install tool.
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Use responsibly — only on authorized systems.