

README

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1 mssh-menu

1.1 Info

SSH into multiple devices from a single command, splitting the screen, and synchronize the keyboard input.

The devices are selected from a menu. This menu is generated from a CSV file the user creates.

1.2 Overview

First, create a CSV file with the first column being the IP address or hostname of the device. Then create additional columns containing the tags which will end up being the groups.

Run `mssh-menu.py` by supplying the command and the name of the CSV file as the argument.

For example, to run `mssh-menu.py` with the file `servers.csv` and both files are in the current directly, enter the following:

```
./mssh-menu.py servers.csv
```

By default, if no file is supplied, the script will look for a file named `servers.csv` in the user's home directory.

For a list of commands run `mssh-menu.py` with the `-h` or `--help` options.

1.3 Screenshots



The screenshot shows a terminal window titled "todd@todd-firefly14: ~/mssh-menu". The user has executed the command `./mssh-menu.py ./servers.csv`. The script displays the following usage information:

```
usage: mssh-menu.py [-h] [-v] [-n NUMBER] [-u USER] [-d] [filename]
1. All servers          4. Site 1 servers
2. Even numbered servers 5. Site 2 servers
3. Odd numbered servers
```

Additional information provided by the script includes:

```
Info: Use commas to separate multiple entries and dash for a range.
Select one or more numbers from the list [1-5,q] (default=1): 1
Selected: `1. All servers`
```

The script then lists the selected servers:

```
server1
server2
server3
server4
```

Finally, it prompts the user for a username:

```
Enter username (default=todd):
```

Figure 1: Running the script and using the menu

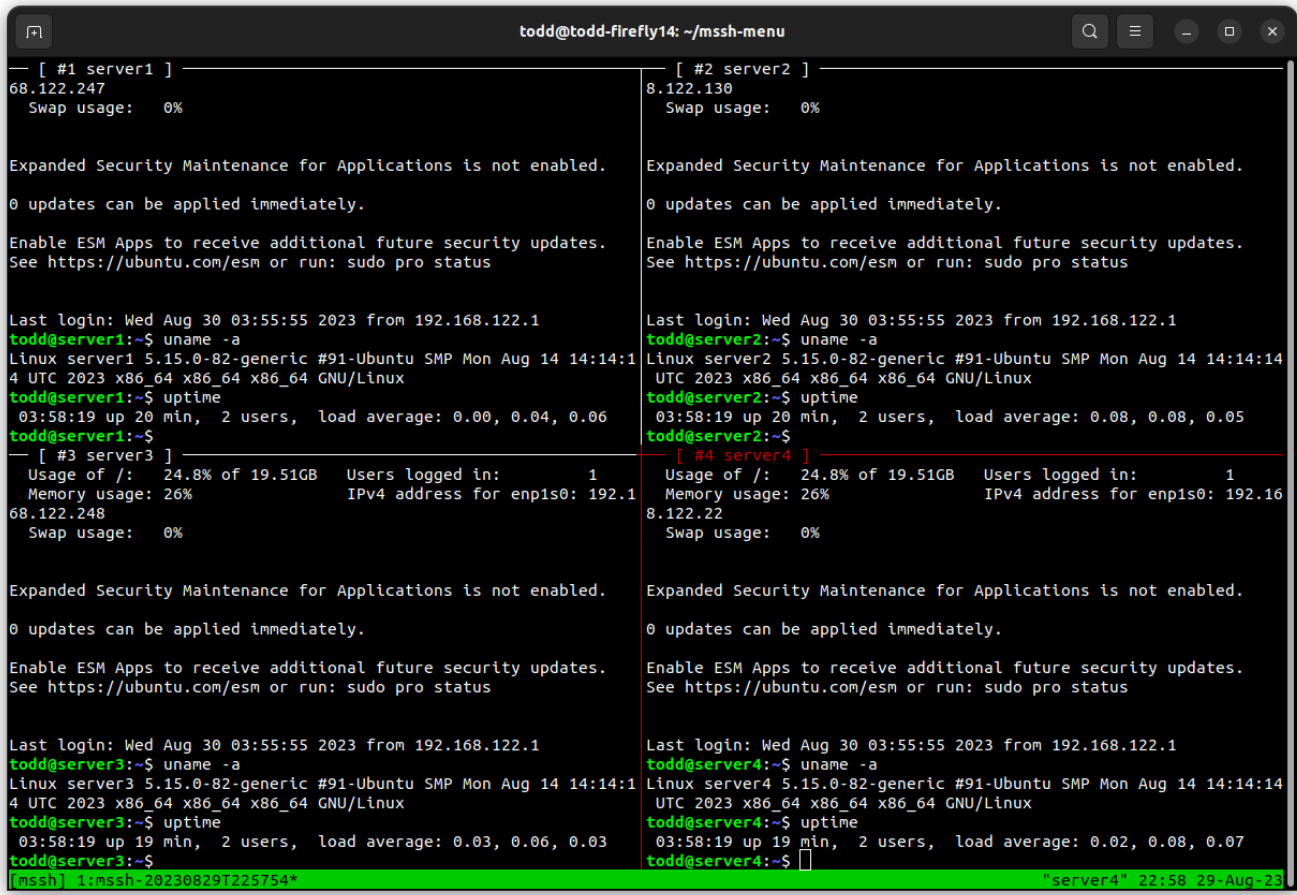


Figure 2: Logged into multiple devices and typing the same commands once

1.4 Requirements

The following are requirements to run this script:

- python3
- ssh
- tmux

1.5 Sample servers.csv file

```
host,tags,,,
server1,Site 1 servers,,Odd numbered servers,,All servers
server2,Site 1 servers,,Even numbered servers,,All servers
server3,,Site 2 servers,Odd numbered servers,,All servers
server4,,Site 2 servers,,Even numbered servers,,All servers
```

Or in human readable form:

| host | tags | | | |
|---------|----------------|----------------|----------------------|-----------------------------------|
| server1 | Site 1 servers | | Odd numbered servers | All servers |
| server2 | Site 1 servers | | | Even numbered servers All servers |
| server3 | | Site 2 servers | Odd numbered servers | All servers |
| server4 | | Site 2 servers | | Even numbered servers All servers |