

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

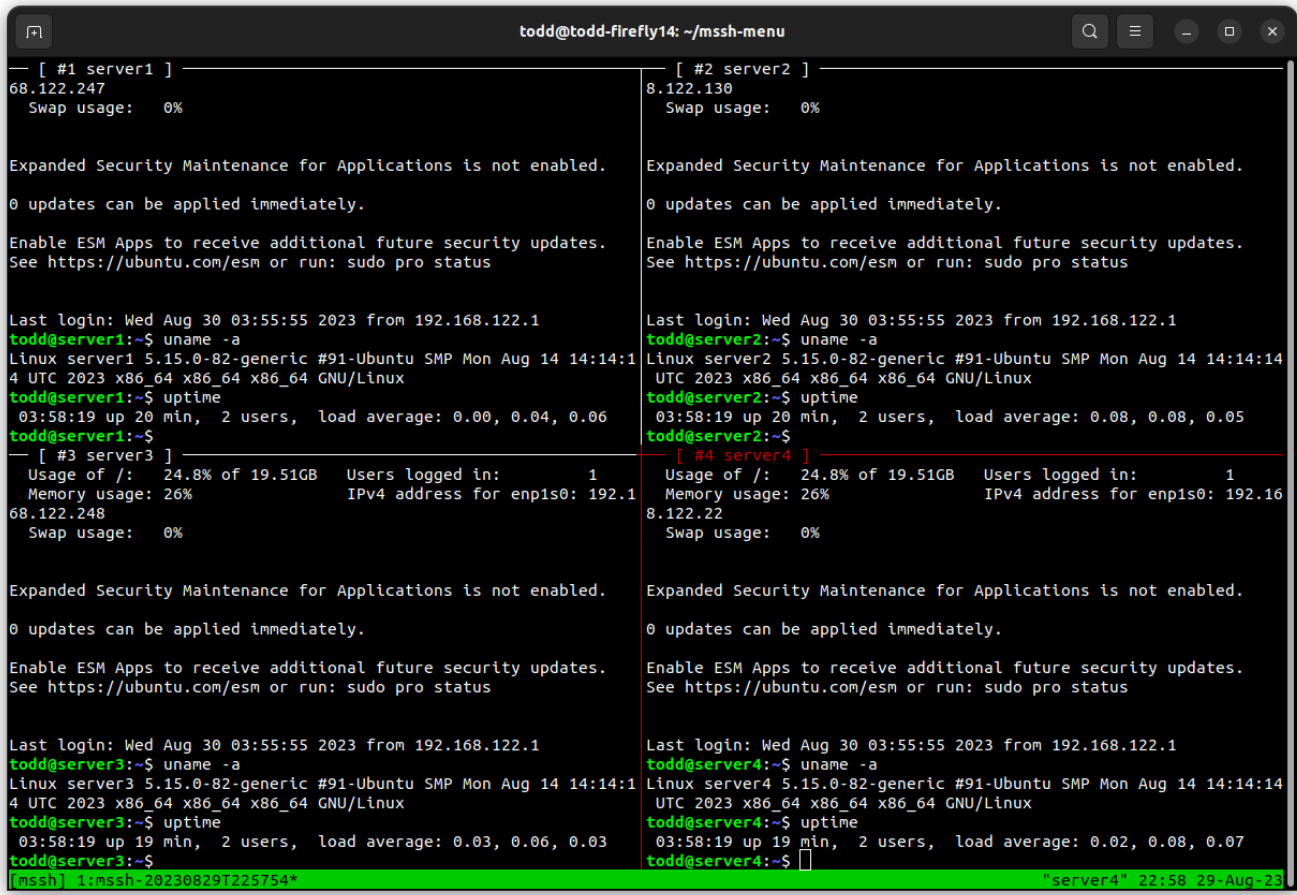


Figure 2: Logged into multiple devices and typing the same commands once

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

1.6 TMUX defaults

It is important to mention that this assumes you have set tmux to start windows and panes at **1** instead of the default **0**.

Here is my default `.tmux.conf` file for reference.

```
# Improve colors
set -g default-terminal screen-256color

# Set scrollback buffer to 10000
set -g history-limit 10000

# Enable mouse mode (tmux 2.1 and above)
set -g mouse on

# Set first windows and pane to index of 1 (instead of zero)
set -g base-index 1
set -g pane-base-index 1
```