

# README

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## 1 sshmulti

### 1.1 Info

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

The devices are supplies at the command line separated by whitespace.

### 1.2 Overview

Run `sshmulti.py` by supplying the command followed by a list of devices separated by whitespace. Shell expansion can be used.

For example, to run `sshmulti.py` from the current directory with devices named `server1`, `server2`, `server3`, and `server4`, and the username `todd`, run one of the following commands:

```
./sshmulti.py todd@server1 todd@server2 todd@server3 todd@server4
```

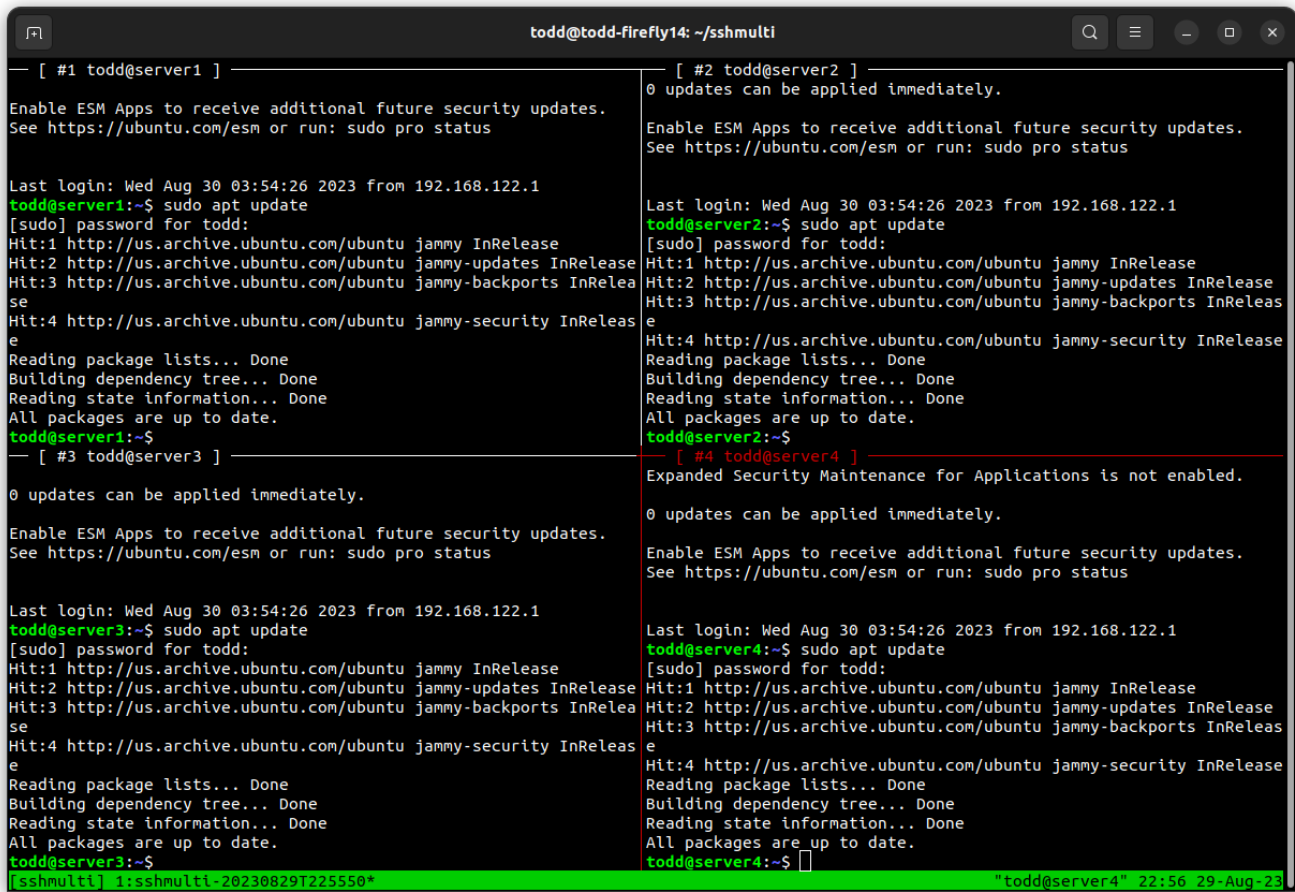
```
./sshmulti.py server1 server2 server3 server4 -l todd
```

```
./sshmulti.py todd@server{1..4}
```

```
./sshmulti.py server{1..4} -l todd
```

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

## 1.3 Screenshots



```
todd@todd-firefly14: ~/sshmulti
[ #1 todd@server1 ]
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Wed Aug 30 03:54:26 2023 from 192.168.122.1
todd@server1:~$ sudo apt update
[sudo] password for todd:
Hit:1 http://us.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://us.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://us.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 http://us.archive.ubuntu.com/ubuntu jammy-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
todd@server1:~$

[ #2 todd@server2 ]
0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Wed Aug 30 03:54:26 2023 from 192.168.122.1
todd@server2:~$ sudo apt update
[sudo] password for todd:
Hit:1 http://us.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://us.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://us.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 http://us.archive.ubuntu.com/ubuntu jammy-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
todd@server2:~$

[ #3 todd@server3 ]
0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Wed Aug 30 03:54:26 2023 from 192.168.122.1
todd@server3:~$ sudo apt update
[sudo] password for todd:
Hit:1 http://us.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://us.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://us.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 http://us.archive.ubuntu.com/ubuntu jammy-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
todd@server3:~$

[ #4 todd@server4 ]
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Wed Aug 30 03:54:26 2023 from 192.168.122.1
todd@server4:~$ sudo apt update
[sudo] password for todd:
Hit:1 http://us.archive.ubuntu.com/ubuntu jammy InRelease
Hit:2 http://us.archive.ubuntu.com/ubuntu jammy-updates InRelease
Hit:3 http://us.archive.ubuntu.com/ubuntu jammy-backports InRelease
Hit:4 http://us.archive.ubuntu.com/ubuntu jammy-security InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
All packages are up to date.
todd@server4:~$
```

Figure 1: 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 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
```