# Continue setup

1. Check your repositories that are included by default on both servers, find out how you'd go about adding a repository, (both official and PPA) and make sure you can install programs.

## **Ubuntu:**

Use \*grep ^deb /etc/apt/sources.list\* to show repos

```
miles@ubuntuserver:~$ grep ^deb /etc/apt/sources.list*
                                  http://us.archive.ubuntu.com/ubuntu jammy main restricted
                                  http://us.archive.ubuntu.com/ubuntu jammy-updates main restricted
/etc/apt/sources.list:deb
/etc/apt/sources.list:deb
/etc/apt/sources.list:deb
/etc/apt/sources.list:deb
/etc/apt/sources.list:deb
                                  http://us.archive.ubuntu.com/ubuntu_jammy_universe
                                  http://us.archive.ubuntu.com/ubuntu jammy—updates universe
                                  http://us.archive.ubuntu.com/ubuntu jammy multiverse
                                  http://us.archive.ubuntu.com/ubuntu jammy-updates multiverse
                                  http://us.archive.ubuntu.com/ubuntu jammy-backports main restricted univer
se multiverse
/etc/apt/sources.list:<mark>deb</mark>
/etc/apt/sources.list:<mark>deb</mark>
/etc/apt/sources.list:<mark>deb</mark>
                                  http://us.archive.ubuntu.com/ubuntu jammy—security main restricted
                                  http://us.archive.ubuntu.com/ubuntu jammy—security universe
                                  http://us.archive.ubuntu.com/ubuntu jammy-security multiverse
 etc/apt/sources.list.curtin.old:del
etc/apt/sources.list.curtin.old:del
                                                 http://archive.ubuntu.com/ubuntu/ jammy main restricted
                                                 http://archive.ubuntu.com/ubuntu/ jammy-updates main restricted
http://archive.ubuntu.com/ubuntu/ jammy universe
http://archive.ubuntu.com/ubuntu/ jammy-updates universe
                                                 http://archive.ubuntu.com/ubuntu/ jammy multiverse
                                                 http://archive.ubuntu.com/ubuntu/ jammy-updates multiverse
                                                 http://archive.ubuntu.com/ubuntu/ jammy-backports main restrict
ed universe multiverse
 etc/apt/sources.list.curtin.old:<mark>deb http://security.ubuntu.com/ubuntu/ jammy–security main restrict</mark>
 etc/apt/sources.list.curtin.old:<mark>deb</mark> http://security.ubuntu.com/ubuntu/ jammy–security universe
etc/apt/sources.list.curtin.old:<mark>deb</mark> http://security.ubuntu.com/ubuntu/ jammy–security multiverse
grep: /etc/apt/sources.list.d: Is a directory
miles@ubuntuserver:~$ _
```

#### centOS:

Use \*yum repolist\* to show repos.

```
Imiles@localhost ~1$ yum repolist
repo id repo name
appstream CentOS Stream 8 - AppStream
baseos CentOS Stream 8 - BaseOS
extras CentOS Stream 8 - Extras
extras-common CentOS Stream 8 - Extras common packages
Imiles@localhost ~1$ _
```

2. Install Tmux, emacs, and Fail2Ban. Make sure you look through the Fail2Ban settings as you do the install.

### **Ubuntu:**

# Emacs: to install emacs on ubuntu enter \*sudo apt-get install emacs\*

```
Setting up gsettings–desktop–schemas (42.0–1ubuntu1) ...
Setting up gtk-update-icon-cache (3.24.33–1ubuntu2) ...
Setting up libm17n-0:amd64 (1.8.0-4) ...
Setting up librsvg2–2:amd64 (2.52.5+dfsg–3) ...
Setting up librsvg2–common:amd64 (2.52.5+dfsg–3) ...
Setting up libgdk–pixbuf2.0–bin (2.42.8+dfsg–1ubuntu0.2) ...
Setting up adwaita-icon-theme (41.0–1ubuntu1) ...
update–alternatives: using /usr/share/icons/Adwaita/cursor.theme to provide /usr/share/icons/default
/index.theme (x–cursor–theme) in auto mode
Setting up humanity—icon—theme (0.6.16) ...
Setting up ubuntu–mono (20.10–0ubuntu2) ...
Processing triggers for man–db (2.10.2–1) .
Processing triggers for install—info (6.8—4build1) ...
Processing triggers for libglib2.0—0:amd64 (2.72.1—1) ...
Setting up libgtk—3—0:amd64 (3.24.33—1ubuntu2) ...
Processing triggers for libc–bin (2.35–Oubuntu3.1) ...
Setting up libgtk–3–bin (3.24.33–1ubuntu2) ...
Setting up emacs-gtk (1:27.1+1-3ubuntu5) ...
update–alternatives: using /usr/bin/emacs–gtk to provide /usr/bin/emacs (emacs) in auto mode
Install emacsen-common for emacs
emacsen–common: Handling install of emacsen flavor emacs
Setting up at–spi2–core (2.44.0–3) ...
Setting up emacs (1:27.1+1–3ubuntu5) ...
Processing triggers for libgdk–pixbuf–2.0–0:amd64 (2.42.8+dfsg–1ubuntu0.2) ...
Scanning processes...
Scanning linux images...
Running kernel seems to be up-to-date.
No services need to be restarted.
No containers need to be restarted.
No user sessions are running outdated binaries.
No VM guests are running outdated hypervisor (qemu) binaries on this host.
miles@ubuntuserver:~$ _
```

### **Tmux:** to install tmux on ubuntu use \*sudo apt-get install tmux\*

```
miles@ubuntuserver:~$ sudo apt–get install tmux
[sudo] password for miles:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
tmux is already the newest version (3.2a–4build1).
tmux set to manually installed.
O upgraded, O newly installed, O to remove and 48 not upgraded.
miles@ubuntuserver:~$
```

# Fail2Ban: to install Fail2Ban on ubuntu enter \*sudo apt-get install fail2ban\*

```
The following NEW packages will be installed:
    fail2ban python3-pyinotify whois
0 upgraded, 3 newly installed, 0 to remove and 48 not upgraded.
Need to get 473 kB of archives.
After this operation, 2,486 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://us.archive.ubuntu.com/ubuntu jammy/universe amd64 fail2ban all 0.11.2-6 [394 kB]
Get:2 http://us.archive.ubuntu.com/ubuntu jammy/main amd64 python3-pyinotify all 0.9.6-1.3 [24.8 kB]
Get:3 http://us.archive.ubuntu.com/ubuntu jammy/main amd64 whois amd64 5.5.13 [53.4 kB]
Fetched 473 kB in 0s (2,284 kB/s)
Selecting previously unselected package fail2ban.
(Reading database ... 93239 files and directories currently installed.)
Preparing to unpack .../fail2ban_0.11.2-6_all.deb ...
Unpacking fail2ban (0.11.2-6) ...
Selecting previously unselected package python3-pyinotify.
Preparing to unpack .../python3-pyinotify_0.9.6-1.3_all.deb ...
Unpacking python3-pyinotify (0.9.6-1.3) ...
Selecting previously unselected package whois.
Preparing to unpack .../whois_5.5.13_amd64.deb ...
Unpacking whois (5.5.13) ...
Setting up whois (5.5.13) ...
Setting up python3-pyinotify (0.9.6-1.3) ...
Setting up python3-pyinotify (0.9.6-1.3) ...
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Sranning linux images
   Scanning processes...
Scanning linux images...
   Running kernel seems to be up–to–date.
   No services need to be restarted.
   No containers need to be restarted.
   No user sessions are running outdated binaries.
   No VM guests are running outdated hypervisor (qemu) binaries on this host.
    miles@ubuntuserver:~$ .
```

#### Fail2Ban Settings

```
# Option: pidfile
# Notes.: Set the PID file. This is used to store the process ID of the
# fail2ban server.
# Values: [FILE] Default: /var/run/fail2ban.pid
#
Options: dbfile
# Notes.: Set the file for the fail2ban persistent data to be stored.
# A value of ":memory:" means database is only stored in memory
# and data is lost when fail2ban is stopped.
# A value of "None" disables the database.
# Values: [None :memory: FILE] Default: /var/lib/fail2ban/fail2ban.sqlite3
dbfile = /var/lib/fail2ban/fail2ban.sqlite3
# Options: dbpurgeage
# Notes.: Sets age at which bans should be purged from the database
# Values: [SECONDS] Default: 86400 (24hours)
dbpurgeage = Id
# Options: dbmaxmatches
# Notes.: Number of matches stored in database per ticket (resolvable via
# tags <ipmatches>/<ipjailmatches> in actions)
# Values: [INT] Default: 10
dbmaxmatches = 10

[Definition]

[Thread]
# Options: stacksize
# Notes.: Specifies the stack size (in KiB) to be used for subsequently created threads,
# and must be 0 or a positive integer value of at least 32.
# Values: [SIZE] Default: 0 (use platform or configured default)
# Stacksize = 0
miles@dubuntserver:~$
```

#### centOS:

**Emacs**: to install emacs on centOS use \*sudo yum install emacs\*

```
hyphen-2.8.8-9.e18.x86_64
jasper-1ibs-2.0.14-5.e18.x86_64
                                                                                    iso-codes-3.79-2.e18.noarch
                                                                                   jbigkit-libs-2.1-14.e18.x86_64
                                                                                   lcms2-2.9-2.e18.x86_64
   lame-libs-3.100-6.el8.x86_64
   libXaw-1.0.13-10.el8.x86_64
libXdamage-1.1.4-14.el8.x86_64
                                                                                   libXcomposite-0.4.4-14.el8.x86_64
libXmu-1.1.3-1.el8.x86_64
   libXpm-3.5.12-8.e18.x86_64
                                                                                   libXt-1.1.5-12.e18.x86_64
   libXtst-1.2.3-7.el8.x86_64
                                                                                   libXv-1.0.11-7.el8.x86_64
                                                                                  libatomic-8.5.0-17.e18.x86_64
libdatrie-0.2.9-7.e18.x86_64
libdvdnav-5.0.3-8.e18.x86_64
   libasyncns-0.8-14.el8.x86_64
libavc1394-0.5.4-7.el8.x86_64
   libdv-1.0.0-27.el8.x86_64
libdvdread-5.0.3-9.el8.x86_64
                                                                                   libepoxy-1.5.8-1.el8.x86_64
                                                                                   libglvmd-gles-1:1.3.4-1.el8.x86_64
libiec61883-1.2.0-18.el8.x86_64
libnotify-0.7.7-6.el8.x86_64
libotf-0.9.13-11.el8.x86_64
   libglvnd-egl-1:1.3.4-1.el8.x86_64
libglvnd-opengl-1:1.3.4-1.el8.x86_64
liblockfile-1.14-2.el8.x86_64
   libogg-2:1.3.2-10.e18.x86_64
   libraw1394-2.1.2-5.el8.x86_64
libshout-2.2.2-19.el8.x86_64
libsrtp-1.5.4-8.el8.x86_64
                                                                                   librsvg2-2.42.7-4.e18.x86_64
libsndfile-1.0.28-12.e18.x86_64
libthai-0.1.27-2.e18.x86_64
   libtheora-1:1.1.1-21.el8.x86_64
                                                                                   libtiff-4.0.9-23.e18.x86_64
   libv4l-1.14.2-3.el8.x86_64
libvorbis-1:1.3.6-2.el8.x86_64
libwayland-client-1.21.0-1.el8.x86_64
                                                                                   libvisual-1:0.4.0-25.el8.x86_64
                                                                                  libvpx-1.7.0-8.el8.x86_64
libwayland-cursor-1.21.0-1.el8.x86_64
libwayland-server-1.21.0-1.el8.x86_64
   libwayland-egl-1.21.0-1.el8.x86_64
libwebp-1.0.0-5.el8.x86_64
                                                                                   m17n-db-1.8.0-3.el8.noarch
  m1?n-lib-1.8.0-2.e18.x86_64
mesa-libgbm-22.1.5-2.e18.x86_64
openjpeg2-2.4.0-5.e18.x86_64
                                                                                   mesa-libEGL-22.1.5-2.e18.x86_64
mpg123-libs-1.25.10-2.e18.x86_64
                                                                                   opus-1.3-0.4.beta.e18.x86_64
   orc-0.4.28-3.e18.x86_64
                                                                                   pango-1.42.4-8.e18.x86_64
                                                                                   rest-0.8.1-2.el8.x86_64
   pulseaudio-libs-14.0-4.e18.x86_64
                                                                                  speex-1.2.0-1.el8.x86_64
twolame-libs-0.3.13-12.el8.x86_64
webkit2gtk3-2.36.7-1.el8.x86_64
   soundtouch-2.0.0-3.e18.x86_64
taglib-1.11.1-8.e18.x86_64
   wavpack-5.1.0-16.el8.x86_64
   webkit2gtk3-jsc-2.36.7-1.el8.x86_64
woff2-1.0.2-5.el8.x86_64
                                                                                   webrtc-audio-processing-0.3-10.e18.x86_64 xml-common-0.6.3-50.e18.noarch
 Complete!
[miles@localhost ~1$
```

#### **Tmux:** to install tmux on centOS use \*sudo yum install tmux\*

```
Imiles@localhost ~1$ sudo yum install tmux
[sudo] password for miles:
Sorry, try again.
[sudo] password for miles:
Isudo] password for miles:
Last metadata expiration check: 0:47:15 ago on Tue 06 Dec 2022 10:53:15 AM EST.
Package tmux-2.7-1.e18.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[miles@localhost ~1$ _
```

**Fail2Ban:** to install Fail2Ban on centOS first install EPEL by entering \*sudo yum install epel-release\* then use \*sudo yum install fail2ban\*

```
Is this ok [y/N]: y
Key imported successfully
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing
Installing
                        python36-3.6.8-38.module_e18.5.0+895+a459eca8.x86_64
  Running scriptlet: python36-3.6.8-38.module_e18.5.0+895+a459eca8.x86_64
                                                                                                                 1/8
 Installing : failZban-server-0.11.2-1.el8.noarch
Running scriptlet: failZban-server-0.11.2-1.el8.noarch
Installing : failZban-firewalld.0.44.3.1
                      : fail2ban-firewalld-0.11.2-1.el8.noarch
  Installing
                      : libesmtp-1.0.6-18.e18.x86_64
  Installing : esmtp-1.2-15.el8.x86_64
Running scriptlet: esmtp-1.2-15.el8.x86_64
                                                                                                                 6/8
                                                                                                                 6/8
                      : fail2ban-sendmail-0.11.2-1.el8.noarch
  Installing
  Installing
                      : fail2ban-0.11.2-1.el8.noarch
                                                                                                                 8/8
  Running scriptlet: failZban-0.11.2-1.el8.noarch
                                                                                                                 8/8
                     : python3-pip-9.0.3-22.el8.noarch
: python36-3.6.8-38.module_el8.5.0+895+a459eca8.x86_64
: esmtp-1.2-15.el8.x86_64
  Verifying
                                                                                                                 1/8
 Verifying
Verifying
                                                                                                                 3/8
                      : fail2ban-0.11.2-1.el8.noarch
  Verifying
                      : fail2ban-firewalld-0.11.2-1.el8.noarch
  Verifying
  Verifying
                      : failZban-sendmail-0.11.2-1.el8.noarch
                                                                                                                 6/8
                      : fail2ban-server-0.11.2-1.el8.noarch
 Verifying
  Verifying
                      : libesmtp-1.0.6-18.e18.x86_64
                                                                                                                 8/8
Installed:
  esmtp-1.2-15.e18.x86_64
                                                   fail2ban-0.11.2-1.el8.noarch
  fail2ban-firewalld-0.11.2-1.el8.noarch
                                                   fail2ban-sendmail-0.11.2-1.el8.noarch
  fail2ban-server-0.11.2-1.el8.noarch
                                                   libesmtp-1.0.6-18.e18.x86_64
  python3-pip-9.0.3-22.e18.noarch
                                                   python36-3.6.8-38.module_e18.5.0+895+a459eca8.x86_64
Complete!
[miles@localhost ~1$
```

3. Just for fun, install cowsay and lolcat. (Yes I know these are silly, the point is that i know they aren't there already.)

#### **Ubuntu:**

# Cowsay:

Install coway by entering \*sudo apt-get install cowsay

```
miles@ubuntuserver:~$ sudo apt-get install cowsay
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Suggested packages:
   filters cowsay-off
The following NEW packages will be installed:
        cowsay

        0 upgraded, 1 newly installed, 0 to remove and 48 not upgraded.
Need to get 18.6 kB of archives.
After this operation, 93.2 kB of additional disk space will be used.
Get:1 http://us.archive.ubuntu.com/ubuntu jammy/universe amd64 cowsay all 3.03+dfsg2-8 [18.6 kB]
Fetched 18.6 kB in 0s (177 kB/s)
Selecting previously unselected package cowsay.
(Reading database ... 93708 files and directories currently installed.)
Preparing to unpack .../cowsay_3.03+dfsg2-8_all.deb ...
Unpacking cowsay (3.03+dfsg2-8) ...
Setting up cowsay (3.03+dfsg2-8) ...
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Scanning linux images...
```

I also installed fortune which outputed a quote in the cows text bubble.

#### lolcat:

To install lolcat first install ruby by entering sudo \*apt-get install ruby\*, then enter sudo apt-get install lolcat

```
Unpacking ruby-paint (2.2.0-1) ...

Selecting previously unselected package lolcat.

Preparing to unpack .../16-lolcat_100.0.1-3_all.deb ...

Unpacking lolcat (100.0.1-3) ...

Setting up javascript-common (11+nmu1) ...

Setting up fonts-lato (2.0-2.1) ...

Setting up rubyjems-integration (1.18) ...

Setting up ruby-paint (2.2.0-1) ...

Setting up ruby-paint (2.2.0-1) ...

Setting up ruby-optimist (3.0.0-2) ...

Setting up ruby-met-telnet (0.1.1-2) ...

Setting up ruby-webrick (1.7.0-3) ...

Setting up libjs-jquery (3.6.0+dfsg+~3.5.13-1) ...

Setting up ruby-xmlrpc (0.3.2-1ubuntu0.1) ...

Setting up rake (13.0.6-2) ...

Setting up ruby-rubygems (3.3.5-2) ...

Setting up ruby-y-valygems (3.3.5-2) ...

Setting up ruby (1:3.0~exp1) ...

Setting up ruby (1:3.0~exp1) ...

Setting up lolcat (100.0.1-3) ...

Processing triggers for fontconfig (2.13.1-4.2ubuntu5) ...

Processing triggers for man-db (2.10.2-1) ...

Scanning processes...

Scanning linux images...
```

### One of the things you can do with lolcat.

```
miles@ubuntuserver:~$ echo miles | lolcat
miles
miles@ubuntuserver:~$ _
```

## centOS:

# Cowsay:

Install coway by entering \*sudo yum install cowsay\*

```
[miles@localhost ~1$ sudo yum install cowsay
[sudo] password for miles:
Last metadata expiration check: 0:13:45 ago on Tue 06 Dec 2022 11:52:44 AM EST.
Dependencies resolved.
··
Package
                  Architecture
                                   Version
                                                             Repository
Installing:
cowsay
                  noarch
                                     3.04-16.el8
                                                                               47 k
Transaction Summary
Install 1 Package
Total download size: 47 k
Installed size: 77 k
Is this ok [y∕N]: y
Downloading Packages:
cowsay-3.04-16.e18.noarch.rpm
                                                         106 kB/s | 47 kB
                                                                           00:00
Total
                                                         72 kB/s I 47 kB
                                                                           00:00
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
 Preparing
            .
: <u>cowsay-3</u>.04-16.e18.noarch
 Installing
 Running scriptlet: cowsay-3.04-16.el8.noarch
            : cowsay-3.04-16.el8.noarch
 Verifying
Installed:
 cowsay-3.04-16.e18.noarch
[miles@localhost ~1$ _
```

#### lolcat:

First you want to install ruby by entering \*yum install ruby\*, then use \*wget <a href="https://github.com/busyloop/lolcat/archive/master.zip">https://github.com/busyloop/lolcat/archive/master.zip</a>\* then enter \*unzip master.zip\*, then enter \*cd lolcat-master/bin\* then enter \*gem install lolcat\*

```
inflating: lolcat-master/README.md
 extracting: lolcat-master/Rakefile
   creating: lolcat-master/ass/
  inflating: lolcat-master/ass/nom.jpg
  inflating: lolcat-master/ass/screenshot.png
   creating: lolcat-master/bin/
  inflating: lolcat-master/bin/lolcat
   creating: lolcat-master/lib/
  inflating: lolcat-master/lib/lolcat.rb
   creating: lolcat-master/lib/lolcat/
  inflating: lolcat-master/lib/lolcat/cat.rb
  inflating: lolcat-master/lib/lolcat/lol.rb
 extracting: lolcat-master/lib/lolcat/version.rb
  inflating: lolcat-master/lolcat.gemspec
   creating: lolcat-master/man/
  inflating: lolcat-master/man/lolcat.6
[miles@localhost ~1$ cd lolcat-master/bin
[miles@localhost bin]$ gem install lolcat
Fetching: manpages-0.6.1.gem (100%)
Successfully installed manpages-0.6.1
Fetching: optimist-3.0.1.gem (100%)
Successfully installed optimist-3.0.1
Fetching: paint-2.3.0.gem (100%)
Successfully installed paint-2.3.0
Fetching: lolcat-100.0.1.gem (100%)
Successfully installed lolcat-100.0.1
Parsing documentation for manpages-0.6.1
Installing ri documentation for manpages-0.6.1
Parsing documentation for optimist-3.0.1
Installing ri documentation for optimist-3.0.1
Parsing documentation for paint-2.3.0
Installing ri documentation for paint-2.3.0
Parsing documentation for lolcat-100.0.1
Installing ri documentation for lolcat-100.0.1
Done installing documentation for manpages, optimist, paint, lolcat after 0 seconds
4 gems installed
[miles@localhost bin]$ _
[miles@localhost bin]$ lolcat -h
```

```
Usage: lolcat [OPTION]... [FILE]...
Concatenate FILE(s), or standard input, to standard output.
With no FILE, or when FILE is -, read standard input.
   -p, --spread=<f>
                                   Rainbow spread (default: 3.0)
                                  Rainbow spread (default: 3.8)

Rainbow frequency (default: 0.1)

Rainbow seed, 0 = random (default: 0)

Enable psychedelics

Animation duration (default: 12)

Animation speed (default: 20.0)
  -F, --freq=\langle f \rangle
  -S, --seed=<i>
  -a, --animate
  -d, --duration=<i>-s, --speed=<f>
                                   Invert fg and bg
24-bit (truecolor)
   -i, --invert
  -t, --truecolor
  -f, --force
                                   Force color even when stdout is not a tty
                                  Print version and exit
Show this message
   -v, --version
  -h, --help
 xamples:
                             Output f's contents, then stdin, then g's contents.
  lolcat
                             Copy standard input to standard output.
  fortune | lolcat Display a rainbow cookie.
Report lolcat bugs to <a href="mailto:khttps://github.com/busyloop/lolcat/issues">khttps://github.com/busyloop/lolcat/issues</a>
lolcat home page: <a href="mailto:khttps://github.com/busyloop/lolcat/">https://github.com/busyloop/lolcat/></a>
Report lolcat translation bugs to <a href="http://speaklolcat.com/">http://speaklolcat.com/>
[miles@localhost bin]$
```

4. Update VI to vim, update your servers if it's needed.

#### **Ubuntu:**

Install vim on ubuntu with \*sudo apt-get install vim\*. I already have it installed.

```
miles@ubuntuserver:~$ sudo apt–get install vim
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
vim is already the newest version (2:8.2.3995–1ubuntu2.1).
vim set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 48 not upgraded.
miles@ubuntuserver:~$ _
```

#### centOS:

Install vim by entering \*sudo yum vim\*. I already have it installed.

```
[miles@localhost bin]$ sudo yum update vim*
[sudo] password for miles:
Last metadata expiration check: 2:03:41 ago on Tue 06 Dec 2022 11:52:44 AM EST.
Dependencies resolved.
Nothing to do.
Complete!
[miles@localhost bin]$ _
```

## References:

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