

Server Setup continued- Installation section

FEDORA-

Update your system using “**sudo yum update**” it might take a while so after you respond with “y” to confirm the update wait until this message

```
Complete!  
gabe@localhost:~$
```

After install Tmux use “**sudo dnf install tmx**” confirm with y

```
gabe@localhost:~$ sudo dnf install tmux  
Updating and loading repositories:  
Repositories loaded.  
Package Arch Version  
Installing:  
tmux x86_64 3.5a-4.fc42  
Installing dependencies:  
libutempter x86_64 1.2.1-17.fc42  
  
Transaction Summary:  
Installing: 2 packages  
  
Total size of inbound packages is 560 KiB. Need to download 560 KiB.  
After this operation, 1 MiB extra will be used (install 1 MiB, remove 0 B).  
Is this ok [y/N]: y  
[1/2] libutempter-0:1.2.1-17.fc42.x86_64  
[2/2] tmux-0:3.5a-4.fc42.x86_64  
-----  
[2/2] Total  
Running transaction  
[1/4] Verify package files  
[2/4] Prepare transaction  
[3/4] Installing libutempter-0:1.2.1-17.fc42.x86_64  
[4/4] Installing tmux-0:3.5a-4.fc42.x86_64  
Complete!
```

After to install Emacs use the “**sudo dnf install emacs**” confirm by typing y and wait until you see this message (type **emacs** after the complete message to confirm if you wish)

```
Transaction Summary:  
Installing: 239 packages  
  
Total size of inbound packages is 285 MiB. Need to download 285 MiB.  
After this operation, 993 MiB extra will be used (install 993 MiB, remove 0 B).  
Is this ok [y/N]: _  
  
Complete!  
gabe@localhost:~$
```

install fail2ban by “**sudo yum install fail2ban**”

```
gabe@localhost:~$ sudo yum install fail2ban
Updating and loading repositories:
Repositories loaded.
Package Arch Version
Installing:
fail2ban noarch 1.1.0-7.fc42
Installing dependencies:
esmtplib x86_64 1.2-29.fc42
fail2ban-firewalld noarch 1.1.0-7.fc42
fail2ban-selinux noarch 1.1.0-7.fc42
fail2ban-sendmail noarch 1.1.0-7.fc42
fail2ban-server noarch 1.1.0-7.fc42
libesmtplib x86_64 1.0.6-33.fc42
liblockfile x86_64 1.17-10.fc42
python3-pyasynchat noarch 1.0.4-1.fc42
python3-pyasyncore noarch 1.0.4-1.fc42

Transaction Summary:
Installing: 10 packages

Total size of inbound packages is 877 KiB. Need to download 877 KiB.
After this operation, 2 MiB extra will be used (install 2 MiB, remove 0 B).
Is this ok [y/N]:
```

To enable fail2ban run the command “**sudo systemctl enable --now fail2ban**”

```
gabe@localhost:~$ sudo systemctl enable --now fail2ban
Created symlink '/etc/systemd/system/multi-user.target.wants/fail2ban.service' → '/usr/lib/systemd/system/fail2ban.service'.
```

To use fail2ban to protect against a ssh log in run “**sudo nano /etc/fail2ban/jail.local**” and enter this for after 10 unsuccessful password entries to ban the user for 5 mins.

```
[sshd]
enabled = true
port = ssh
filter = sshd
logpath = /var/log/secure
maxretry = 10
bantime = 300
```

To download cowsay use the “**sudo yum install cowsay -y**” command it will download a lot and then give you this message

```
[53/62] Installing perl-Carp-0:1.54-512.fc42.noarch
[54/62] Installing perl-Exporter-0:5.78-512.fc42.noarch
[55/62] Installing perl-DynaLoader-0:1.56-519.fc42.x86_64
[56/62] Installing perl-Encode-4:3.21-512.fc42.x86_64
[57/62] Installing perl-PathTools-0:3.91-513.fc42.x86_64
[58/62] Installing perl-libs-4:5.40.3-519.fc42.x86_64
[59/62] Installing perl-interpreter-4:5.40.3-519.fc42.x86_64
[60/62] Installing perl-File-Find-0:1.44-519.fc42.noarch
[61/62] Installing cowsay-0:3.8.4-2.fc42.noarch
[62/62] Installing perl-NDBM_File-0:1.17-519.fc42.x86_64
Complete!
gabe@localhost:~$
```

To download lolcat use **sudo yum instal lolcat -y**

```
gabe@localhost:~$ sudo yum install lolcat -y
Updating and loading repositories:
Repositories loaded.
Package Arch Version Repository
Installing:
lolcat x86_64 1.5-3.fc42 fedora

Transaction Summary:
Installing: 1 package

Total size of inbound packages is 21 KiB. Need to download 21 KiB.
After this operation, 33 KiB extra will be used (install 33 KiB, remove 0 B).
[1/1] lolcat-0:1.5-3.fc42.x86_64 100% |
-----
[1/1] Total 100% |
Running transaction
[1/3] Verify package files 100% |
[2/3] Prepare transaction 100% |
[3/3] Installing lolcat-0:1.5-3.fc42.x86_64 100% |
Complete!
```

To update vi to vim use “**sudo dnf update -y**” if needed, in my case it was not. After use “**sudo yum install vim**”

```
gabe@localhost:~$ sudo dnf update -y
Updating and loading repositories:
Repositories loaded.
Nothing to do.
gabe@localhost:~$ sudo install vim
install: missing destination file operand after 'vim'
Try 'install --help' for more information.
gabe@localhost:~$ sudo yum install vim
Updating and loading repositories:
Repositories loaded.
Package Arch Version Repository
Installing:
vim-enhanced x86_64 2:9.1.1818-1.fc42 updates
Installing dependencies:
gpm-libs x86_64 1.20.7-51.fc42 fedora
vim-common x86_64 2:9.1.1818-1.fc42 updates
vimfilesystem noarch 2:9.1.1818-1.fc42 updates
xxd x86_64 2:9.1.1818-1.fc42 updates

Transaction Summary:
Installing: 5 packages

Total size of inbound packages is 10 MiB. Need to download 10 MiB.
After this operation, 41 MiB extra will be used (install 41 MiB, remove 0 B).
Is this ok [y/N]: y
[1/5] gpm-libs-0:1.20.7-51.fc42.x86_64 100% |
[2/5] vimfilesystem-2:9.1.1818-1.fc42.noarch 100% |
[3/5] xxd-2:9.1.1818-1.fc42.x86_64 100% |
[4/5] vim-enhanced-2:9.1.1818-1.fc42.x86_64 100% |
[5/5] vim-common-2:9.1.1818-1.fc42.x86_64 100% |
-----
[5/5] Total 100% |
Running transaction
[1/7] Verify package files 100% |
[2/7] Prepare transaction 100% |
[3/7] Installing xxd-2:9.1.1818-1.fc42.x86_64 100% |
[4/7] Installing vimfilesystem-2:9.1.1818-1.fc42.noarch 100% |
[5/7] Installing vim-common-2:9.1.1818-1.fc42.x86_64 100% |
[6/7] Installing gpm-libs-0:1.20.7-51.fc42.x86_64 100% |
[7/7] Installing vim-enhanced-2:9.1.1818-1.fc42.x86_64 100% |
Complete!
```