

Installed Applications (WHITE SCREEN=CentOS BLACK SCREEN=Fedora)

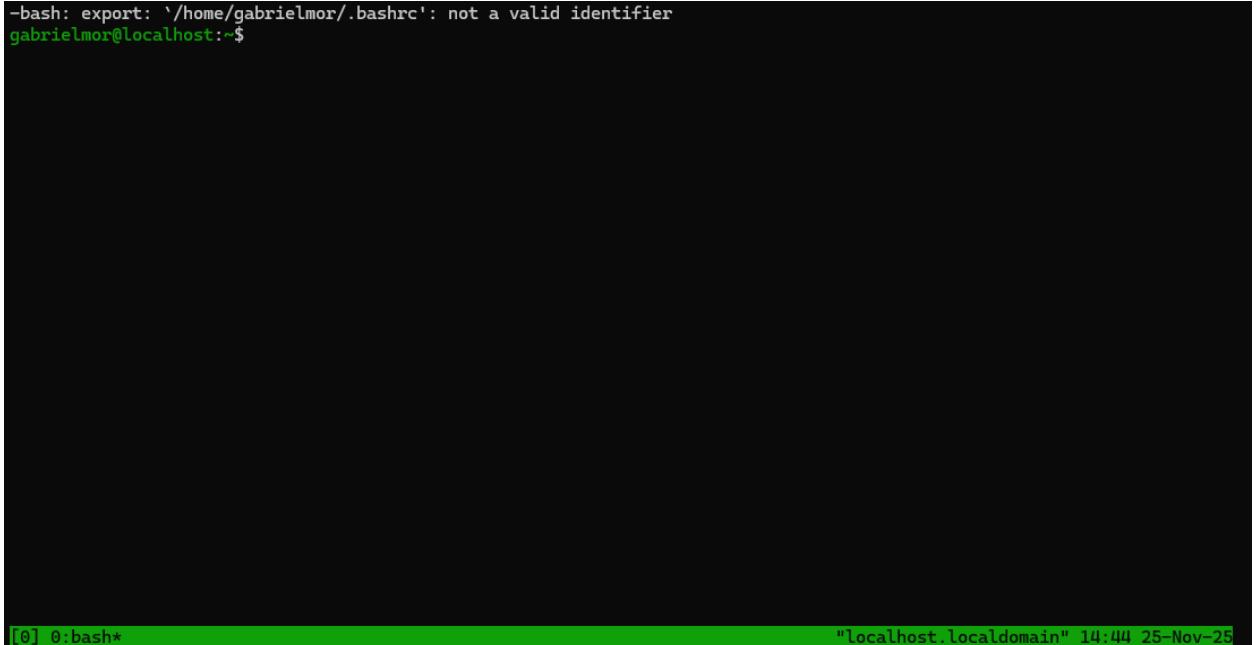
TMUX to verify - **use tmux -V**

```
gabrielmor@localhost:~$ tmux -V  
tmux next-3.4
```

```
gabe@localhost:~$ tmux -V  
tmux 3.5a
```

To use tmux you need to put **tmux** into terminal and you will get this screen

```
-bash: export: '/home/gabrielmor/.bashrc': not a valid identifier
gabrielmor@localhost:~$
```



"localhost.localdomain" 14:44 25-NOV-25

[^][11;rgb:0c0c/0c0c/0c0c^[\gabekl@localhost:~\$ 11;rgb:0c0c/0c0c/0c0c



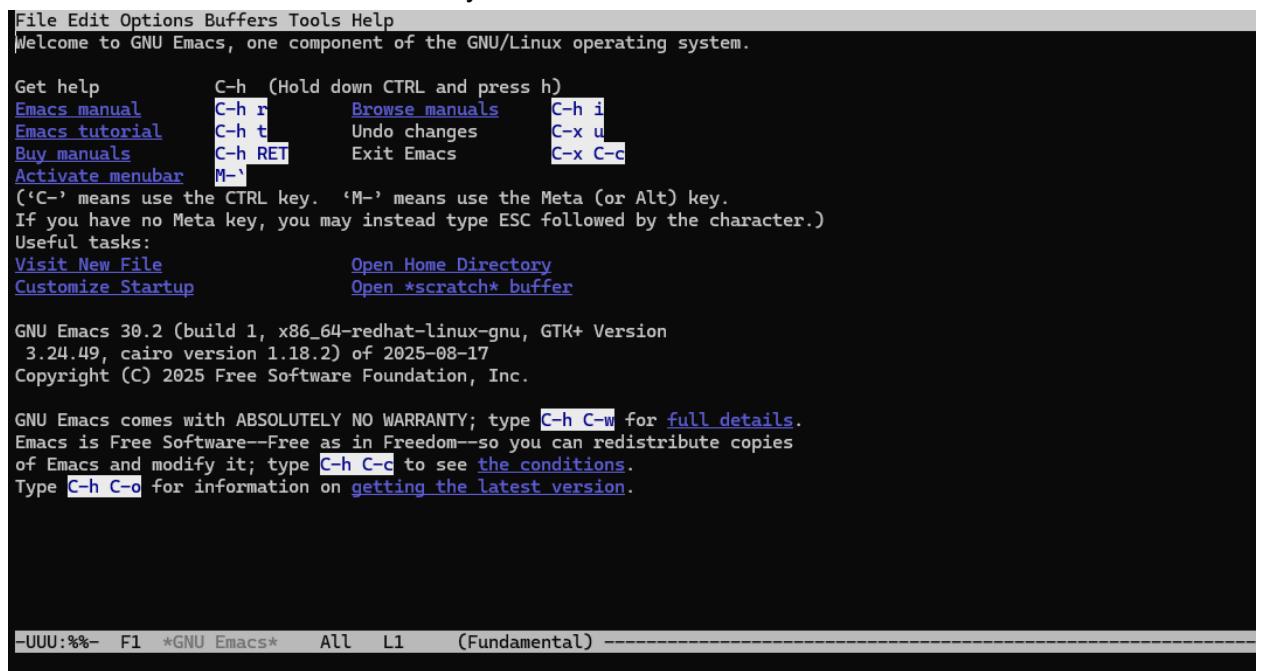
USing Tmux you are able to have more than one windows of terminal open at the same time, to open a new window simply just click **ctrl+b & then click c** and to switchen in between each windows use **ctrl+b and click n** and to exit Tmux simply do **ctrl+d**

EMACS to verify use **emacs --version**

```
gabrielmor@localhost:~$ emacs --version
GNU Emacs 29.4
Copyright (C) 2024 Free Software Foundation, Inc.
GNU Emacs comes with ABSOLUTELY NO WARRANTY.
You may redistribute copies of GNU Emacs
under the terms of the GNU General Public License.
For more information about these matters, see the file named COPYING.
```

```
gabe@localhost:~$ emacs --version
GNU Emacs 30.2
Copyright (C) 2025 Free Software Foundation, Inc.
GNU Emacs comes with ABSOLUTELY NO WARRANTY.
You may redistribute copies of GNU Emacs
under the terms of the GNU General Public License.
For more information about these matters, see the file named COPYING.
```

To enter emacs use the command **emacs** and you will be presented with this screen, emacs is used as a text editor and using the commands listed below you can modify text and got through the tutorial and manual. To exit use **ctrl+z** and you will be exited out of this screen



Fail2ban to verify use **sudo systemctl status fail2ban**
(USAGE OF FAIL2BAN IN EACH INSTALLATION DOCS)

```
gabrielmor@localhost:~$ sudo systemctl status fail2ban
[sudo] password for gabrielmor:
● fail2ban.service - Fail2Ban Service
  Loaded: loaded (/usr/lib/systemd/system/fail2ban.service; enabled; preset: disabled)
  Active: active (running) since Sun 2025-10-26 17:05:40 EDT; 50min ago
```

```
gabe@localhost:~$ sudo systemctl status fail2ban
[sudo] password for gabe:
● fail2ban.service - Fail2Ban Service
  Loaded: loaded (/usr/lib/systemd/system/fail2ban.service; enabled; preset: disabled)
  Drop-In: /usr/lib/systemd/system/service.d
            └─10-timeout-abort.conf
  Active: active (running) since Mon 2025-10-27 16:20:47 EDT; 15min ago
```

Cowsay- to verify and test use **cowsay “moo”** and **“cowsay –version”**

```
gabrielmor@localhost:~$ cowsay "moo"
<-----
< moo >
-----
 \  ^__^
  (oo)\_____
   (__)\       )\/\
    ||----w |
     ||     ||
```

```
gabe@localhost:~$ cowsay --version
/usr/bin/cowsay version 3.8.4 calling Getopt::Std::getopts (version 1.14),
running under Perl version 5.40.3.
gabe@localhost:~$ cowsay "moo"
```

```
<-----
< moo >
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 \  ^__^
  (oo)\_____
   (__)\       )\/\
    ||----w |
     ||     ||
```

Snapd- to verify use **systemctl status snapd.socket**

```
gabrielmor@localhost:~$ systemctl status snapd.socket
● snapd.socket - Socket activation for snappy daemon
  Loaded: loaded (/usr/lib/systemd/system/snapd.socket; enabled; preset: enabled)
  Active: active (running) since Sun 2025-10-26 17:27:45 EDT; 22h ago
```

Lolcat to use and verify **echo “test” | lolcat** and **lolcat –version**

```
gabrielmor@localhost:~$ echo "test" | lolcat
test
```

```
gabe@localhost:~$ lolcat --version
lolcat version 1.5, (c) 2024 jaseg
gabe@localhost:~$ echo "test" | lolcat
test
gabe@localhost:~$
```

```
gabrielmor@localhost:~/Downloads$ echo "test" | lolcat
test
```

Vim- to verify use **vim -version**

```
gabrielmor@localhost:~$ vim --version
VIM - Vi IMproved 9.1 (2024 Jan 02, compiled Jan 27 2025 00:00:00)
Included patches: 1-83
Modified by <bugzilla@redhat.com>
Compiled by <bugzilla@redhat.com>
Huge version without GUI. Features included (+) or not (-):
+acl          +file_in_path      +mouse_urxvt      -tag_any_white
+arabic       +find_in_path      +mouse_xterm      -tcl
+autocmd      +float           +multi_byte       +termguiccolors
+autochdir    +folding          +multi_lang        +terminal
-autoservername -footer          -mzscheme         +terminfo
-balloon_eval   +fork()          +netbeans_intg    +termresponse
+balloon_eval_term +gettext         +num64            +textobjects
+browse        -hangul_input     +packages          +textprop
++builtin_terms +iconv           +path_extra        +timers
+byte_offset    +insert_expand    +perl_dyn         +title
+channel       +ipv6             +persistent_undo -toolbar
+cindent        +job              +popupwin         +user_commands
-clientserver   +jumplist         +postscript        +vartabs
-clipboard      +keymap          +printer          +vertsplit
+cmdline_compl +lambda           +profile          +vim9script
+cmdline_hist   +langmap          -python           +viminfo
+cmdline_info   +libcall          +python3_dyn      +virtualedit
+comments       +linebreak        +quickfix         +visual
+conceal        +lispendent       +reltime          +visualextra
+cryptv         +listcmds         +rightleft        +vreplace
+cscope         +localmap         +ruby_dyn         +wildignore
+cursorbind     +lua_dyn          +scrollbind       +wildmenu
+cursorshape    +menu             +signs            +windows
+dialog_con     +mksession        +smartindent      +writebackup
+diff          +modify_fname     -sodium           -X11
+digraphs       +mouse            -sound            +xattr
-dnd            -mouseshape       +spell             -xfontset
-ebcdic         +mouse_dec        +startuptime      -xim
+emacs_tags     -mouse_gpm        +statusline       -xpm
+eval           -mouse_jsbterm    -sun_workshop     -xsmp
+ex_extra       +mouse_neterm    +syntax           -xterm_clipboard
+extra_search   +mouse_sgr        +tag_binary       -xterm_save
-farsi          -mouse_sysmouse -tag_old_static
```

Vim –version

To use this use the **vim** and foran example for the .txt use **vim.txt** command and this will open a text document and simply pressing the letter **i** will allow you to insert text of choice

```
hello this is a test|
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```

after this to save the file and leave vim click **esc** and type **wq!** And press **enter** and you will see this screen

```
gabrielmor@localhost:~/Downloads$ vim vim.txt
gabrielmor@localhost:~/Downloads$ cat vim.txt
hello this is a test

gabe@localhost:~$ vim vim.txt
gabe@localhost:~$ cat vim.txt
hello this is a test on fedora
```

To find these use:

Tmux: whereis tmux

Emacs: `whereis emacs`

Fail2ban: whereis fail2ban

Cowsay: where is cowsay

Lolcat: where is lolcat

Vim: **whereis vim**