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New wiki for new addon tmux

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New wiki for new addon tmux

by ummeegge January 2nd, 2015, 1:50 pm
Hi all,
I wanted to introduce a new wiki for the upcoming release of core 87 which contains also a new addon called tmux.
In here --> http://wiki.ipfire.org/en/addons/tmux/start the english wiki can be found.
In here --> http://wiki.ipfire.org/de/addons/tmux/start the german wiki can be found.
It might be great if someone can take a look over it for potential corrections or enhancements.
Greetings,
UE
EDIT(s):
- Changed Core version since security updates needed Core 86
--> Add in here the current state of the development in this thread -->
In- and uninstaller for an example tmux configuration and a pane, window and session arranger script. Installer offers also a Bash prompt modification so a time stamp will be also seen in the prompt and do not need to be integrated into tmux statusbar (more space in 1). Installer differs a little to this one --> https://forum.ipfire.org/viewtopic.php? ... =15#p80773 but is in general the same.
In- and Uninstaller script:
CODE:SELECT ALL
#!/bin/bash -
#
Script checks for /root/.tmux.conf file and installs it if not present.
Integrates tmux bash script for pane and window structure.
Special layout of tmux will be executed by the script,
which will be placed under /usr/bin with the name "tmux".
Uninstaller is meanwhile also available.
Modification of the Bash prompt will also be provided by the script
#
ummeegge 13.02.2015
#####
mtr, iftop, bwm-ng and iptraf-ng and tmux will be used by the script,

ummeegge Community Developer
Posts: 482
Joined: October 9th, 2010, 10:00 am

don't forget to make the script executable with a chmod +x (scriptname). You can execute it than with a ./(scriptname).

EDIT: The mouse options seems to do not work with the tmux-2.3 so i deleted it
- Added HTTPS provider to investigate external IP.

Re: New wiki for new addon tmux

by bloater99 January 2nd, 2015, 10:16 pm
The English version is very understandable. I don't see any critical changes that need to be made. Looks like a nice added feature!

bloater99 Community Developer
Posts: 482
Joined: October 13th, 2014, 3:47 pm

Re: New wiki for new addon tmux

by ummeegge January 5th, 2015, 4:32 pm
Thanks bloater99 for checking this out. I have added now an english manpage for tmux cause there was only an german howto from Ubuntu wiki in the english section which i forgot to edit appropriately. Think this should be enough for the wiki, will see :D
Greetings,
UE

ummeegge Community Developer
Posts: 5001
Joined: October 9th, 2010, 10:00 am

Re: New wiki for new addon tmux

by XerXes January 6th, 2015, 5:49 am
Is it may be possible to add the config-file for the example screenshot to the wiki?
I think it makes it allot easier to edit an existing config-file than to start from scratch.

XerXes
Posts: 157
Joined: February 19th, 2011, 3:11 pm
Location: Germany

Re: New wiki for new addon tmux

by ummeegge January 6th, 2015, 8:09 pm
Hi XerXes,
XerXes wrote:
Is it may be possible to add the config-file for the example screenshot to the wiki?
I think it makes it allot easier to edit an existing config-file than to start from scratch.

ummeegge Community Developer
Posts: 5001
Joined: October 9th, 2010, 10:00 am

good idea. I'am currently on the move but if i'am back home i can add one to the wiki as an example, or may if you got one you can add it too ?

UE

Re: New wiki for new addon tmux

by ummeegge January 14th, 2015, 3:12 pm
Hi all,
I have arranged a smaller config file now for tmux, this could be now a next step to make things a little more handy for people which needs to start from scratch with tmux and if you find this might be a good idea we could go for further steps with the possibility to bring it may also into the wiki.

Tmux configuration file takes place in ~/.tmux.conf:

```
CODE:SELECT ALL
# tmux configuration file
# should takes place under ~/ as .tmux.conf
#####
# ummeegge 04.01.2014
#
# set defaults
set-option -g default-shell "/bin/bash"
set-option -g default-command "bash -l"
set-option -g default-terminal "screen-256color"
#
# pemag prefix to Control + a
set -a pemagEx_Co...
```

ummeegge Community Developer
Posts: 5001
Joined: October 9th, 2010, 10:00 am

Current config state with an example:

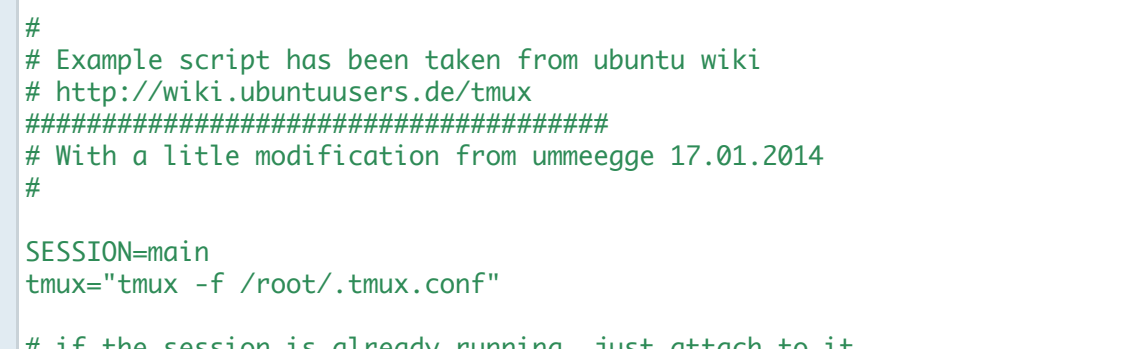
```
@ipfire ~$ cat ~/.tmux.conf
# ummeegge 04.01.2014
#####
# set defaults
set-option -g default-shell "/bin/bash"
set-option -g default-command "bash -l"
set-option -g default-terminal "screen-256color"
#
# pemag prefix to Control + a
set -a pemagEx_Co...
#
# tmux configuration file
# should takes place under ~/ as .tmux.conf
#####
# ummeegge 04.01.2014
#
# set defaults
set-option -g default-shell "/bin/bash"
set-option -g default-command "bash -l"
set-option -g default-terminal "screen-256color"
#
# pemag prefix to Control + a
set -a pemagEx_Co...
#
# tmux configuration file
# should takes place under ~/ as .tmux.conf
#####
# ummeegge 04.01.2014
#
# set defaults
set-option -g default-shell "/bin/bash"
set-option -g default-command "bash -l"
set-option -g default-terminal "screen-256color"
#
# pemag prefix to Control + a
set -a pemagEx_Co...
```

Fast explanation:
- Left the window configuration section for the first empty cause this could also be done over an bash script (nevertheless also possible over the config file), so the configuration is more clear. A potential shell script can call on every execution also the configuration file to check if there are some possible changes and it can attach the session to possible existing ones. Furthermore individual pane settings might be more clear to overview in a separated section ?
- tmux uses Bash.
- 256 colors are default in the terminal.
- The bind key is now Screen-like and has been changed from [CTRL]-b to [CTRL]-a
- "[CTRL]-a r" can reload the config also while a session.
- UTF-8 will be used.
- Activity alert should be monitored.
- The history are extended to 10000 lines.
- A little more color and design stuff.

Take a look into it and improve it if you find some more/better things.
Will post also a script, but it might be good to hear from you which addons/software/panes could be a nice idea /concept for IPFire

Greetings,
UE
EDIT(s):
- Wrote accidently in german have changed it to english :D
- Added config file a little and added a different status bar.
- Added mouse integration for scrolling, pane selection and resizing panes.
- Checks now WAN IP and logged in users (from uptime).
- Actualize statusbar infos every 15 seconds.
- Changed uptime command to who command for investigate logged on users to cut down "," delimiter for cut do not work after restart

Last edited by ummeegge on January 21st, 2015, 7:02 am, edited 1 time in total.



Re: New wiki for new addon tmux

by ummeegge January 17th, 2015, 12:37 pm
A script example with inspiration from ubuntu Wiki:
CODE:SELECT ALL
#!/bin/bash -
#
Example script has been taken from ubuntu wiki
http://wiki.ubuntuusers.de/tmux
#####
With a little modification from ummeegge 17.01.2014
#
SESSION=main
tmux="tmux -f /root/.tmux.conf"
if the session is already running, just attach to it.
\$tmux has-session -t \$SESSION

ummeegge Community Developer
Posts: 5001
Joined: October 9th, 2010, 10:00 am

The above posted tmux.conf file are included by the script. There are now 4 windows with different Pane structures, feel free to extend the script and the config file.

UE

Re: New wiki for new addon tmux

by ummeegge February 4th, 2015, 2:43 pm
Some infos for mouse integration on OS X systems and the usage of terminal.app:
To scroll, resize window and switch between the panes with the mouse (or even the trackpad) there is need to install MouseTerm and SIMBL --> https://bitheap.org/mousterm/ to make this work. Have added also

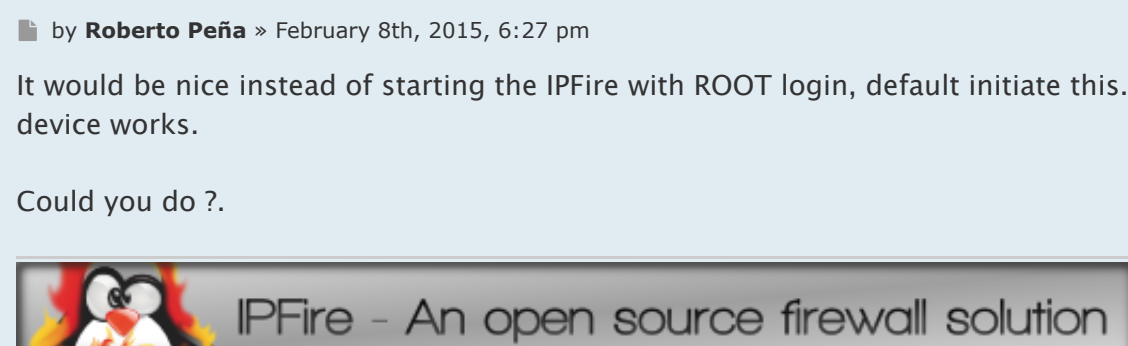
ummeegge Community Developer
Posts: 5001
Joined: October 9th, 2010, 10:00 am

```
CODE:SELECT ALL
# Scroll, resize window and switch between the panes with the mouse
# The terminal.app in OS X needs simbl und MouseTerm
set-option -g mouse-utf8 on
set-option -g mouse-select-pane on
set-option -g mouse-select-window on
set-option -g mouse-resize-pane on
set-window-option -g mode-mouse on
#
```

into ~/.tmux.conf which is now also integrated in the config above --> viewtopic.php?f=52&p=80334#p79315. To change into scroll mode use [ctrl-a] [alt-5] (for "T") and 'q' to switch it off again.

Some more nice infos about this topic and more can be found in here --> http://floriancrouzat.net/2010/07/comp..._minal-app/ .

UE

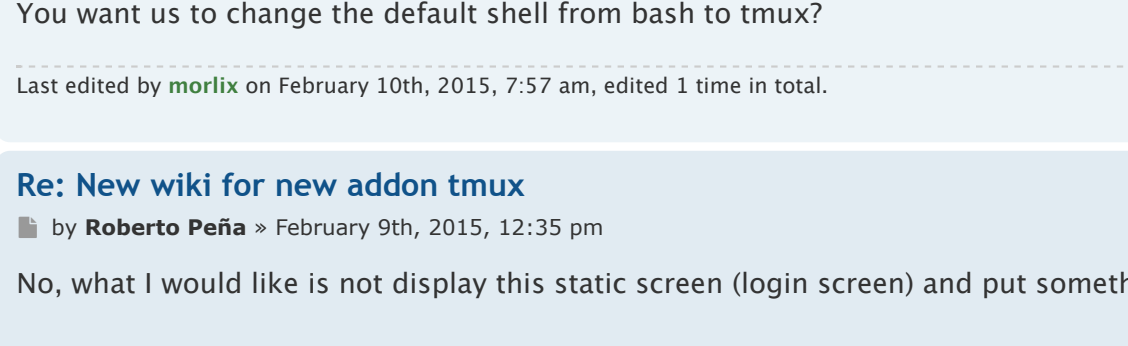


Re: New wiki for new addon tmux

by Roberto Peña February 8th, 2015, 6:27 pm
It would be nice instead of starting the IPFire with ROOT login, default initiate this. So, if we put a KVM monitor, you can see that the device works.

Roberto Peña
Posts: 761
Joined: July 16th, 2014, 3:56 pm
Location: Bilbao (España)
Contact: [icon]

Could you do ?



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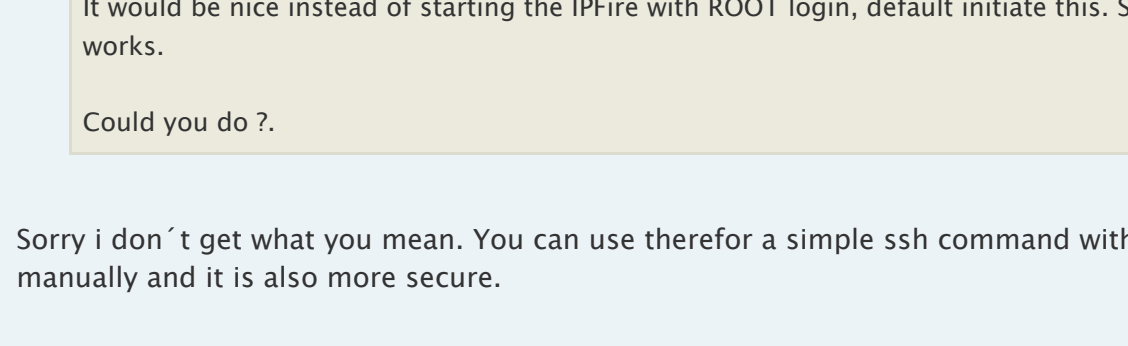
Re: New wiki for new addon tmux
by morlix February 9th, 2015, 12:04 pm
Do i understand you right?
You want us to change the default shell from bash to tmux?
Last edited by morlix on February 10th, 2015, 7:57 am, edited 1 time in total.

morlix Community Developer
Posts: 175
Joined: July 18th, 2011, 10:08 am
Location: Stuttgart

Re: New wiki for new addon tmux

by Roberto Peña February 9th, 2015, 12:35 pm
No, what I would like is not display this static screen (login screen) and put something more dynamic. Iftop eg.

Roberto Peña
Posts: 761
Joined: July 16th, 2014, 3:56 pm
Location: Bilbao (España)
Contact: [icon]



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Re: New wiki for new addon tmux
by ummeegge February 9th, 2015, 4:36 pm
Hi all,
Roberto Peña wrote:
It would be nice instead of starting the IPFire with ROOT login, default initiate this. So, if we put a KVM monitor, you can see that the device works.
Could you do ?

ummeegge Community Developer
Posts: 5001
Joined: October 9th, 2010, 10:00 am

Sorry i don't get what you mean. You can use therefor a simple ssh command with Pubkey authentication so you don't need to logon manually and it is also more secure.

Roberto Peña wrote:
No, what I would like is not display this static screen (login screen) and put something more dynamic. Iftop eg.

In here the same, with a little shell script like this

```
CODE:SELECT ALL
#!/bin/bash -
ssh -p222 -t root@[IP-IPFire]
```

on your admin machine you will get iftop by doubleclick.

tmux is a terminal multiplexer. In here --> http://en.wikipedia.org/wiki/Tmux you can find a fast explanation of what it is.

If i didn't get you, try a step by step explanation, thanks.

Greetings,
UE
EDIT: In here --> http://wiki.ipfire.org/en/optimization/... info/start you can find also an howto for this and may a little more :D



Re: New wiki for new addon tmux
by Roberto Peña February 9th, 2015, 6:44 pm
Hi Roberto Peña,
did you tried the above posted bash script and config file ? If yes, what do you think about the allocation ?
This question,

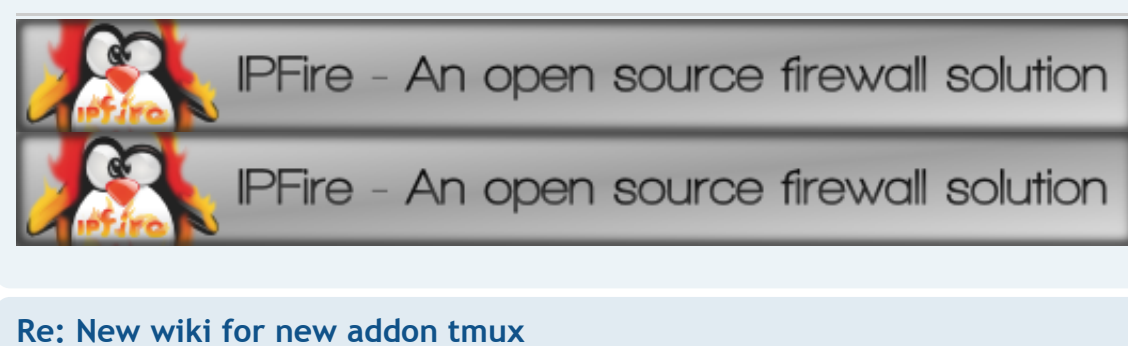
ummeegge Community Developer
Posts: 5001
Joined: October 9th, 2010, 10:00 am

ummeegge wrote:
Will post also may a script, but it might be good to hear from you which addons/software/panes could be a nice idea/concept for IPFire

might also be a silly question but there is the need to install possibly additional software which is a matter of taste so the question again,

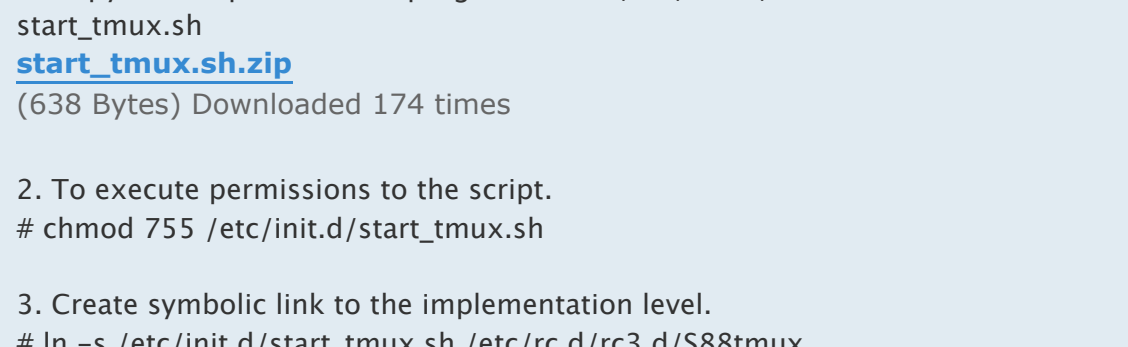
What is a nice idea/concept to visualize an IPFire template for tmux ?

Greetings,
UE



Re: New wiki for new addon tmux
by Roberto Peña February 10th, 2015, 8:02 am
I mean a thing, more or less, certainly to implement. (It should put the ".tmux.conf" of ummeegge)
1. Copy the script to run, the program to the /etc/init.d/, start_tmux.sh
start_tmux.sh.zip (638 Bytes) Downloaded 174 times
2. To execute permissions to the script.
chmod 755 /etc/init.d/start_tmux.sh
3. Create symbolic link to the implementation level.
ln -s /etc/init.d/start_tmux.sh /etc/rc.d/rc3.d/S88tmux
4. Reboot and check operation.

Roberto Peña
Posts: 761
Joined: July 16th, 2014, 3:56 pm
Location: Bilbao (España)
Contact: [icon]



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New wiki for new addon tmux

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Re: New wiki for new addon tmux

by morlix • February 10th, 2015, 8:04 am

The homescreen Login seems very static and IT managers will have swith one screen or KVM and if any more dynamic screen would give them some assurance that everything works fine.

Normally you should have setup a system monitoring tool like icinga for this. So all you have to do is to look at your icinga system overview. It isn't practical to look at the screen of every system to get a feeling if everything is ok.

The problem is that every day I put it to restart the IPFire at 03:00 am and if I have to login every day to start the iftop ... would be nice to default appeared something that shows activity.

Why do you restart ipfire every night?

He had thought if we could split the screen in half horizontally. The top that showed some activity IPFire and inner display is the login TMux style, but by default.

This is possible, but surely nothing we built into ipfire directly. But you can customize the system, so that it uses tmux as login shell and always opens a tmux session which then shows the output of tools like iftop on the first window and a login prompt on the second or third window.

If you need something like this, we can support you to achieve this, but i also want you to create a howto out of this and write a wiki article about it.

One more question: do you want to see this on the physical monitor or from within a pseudo terminal like ssh or putty?

Kind regards,

morlix

User profile for morlix: Posts: 175, Joined: July 18th, 2011, 10:08 am, Location: Stuttgart

Re: New wiki for new addon tmux

by ummeegge • February 10th, 2015, 12:36 pm

Hi all, have made now an installeerscript for .tmux.conf and a bash script which opens 3 different windows with different pane structur.

What does the script do?

- bwm-ng, iftop, mtr and iptraf-ng will be used by the Bash script, so the installer checks whether these Addons are installed, if not the installer will do this with you.
- A check if /root/.tmux.conf is present will be executed. If it isn't the script will place one there with this content --> viewtopic.php?f=52&t=12239#p79315
- but changed right statusbar info from date to how much RAM is free, but left also old entry outcommented in.
- A Bash script named 'mux' will be placed under /usr/bin which opens 3 different windows. You get a list of the windows by typing [CTRL-a] - w' and you can chose there also in which one you want to work.

- The first window offers iftop, bwm-ng and mtr.
The second window was quartered and waits for your commands.
The third offers iptraf-ng.

After installation you can call the Bash script by simply typing mux into the console.

The installer script is an example and should work as an idea which should be lead to more progression, please add and communicate your own ideas:

```
CODE: SELECT ALL
#!/bin/bash -
#
# Script checks for /root/.tmux.conf file and installs it if not present.
# Integrates tmux bash script for pane and window structure.
# Special layout of tmux will be executed by the script,
# which will be placed under /usr/bin with the name 'mux'.
#
# ummeegge 10.02.2015
#####
# mtr, iftop, bwm-ng and iptraf-ng and tmux will be used by the script,
# and will be installed if they are not present.
# 3 windows with different structur and content will be created.
```

User profile for ummeegge: Posts: 5001, Joined: October 9th, 2010, 10:00 am

Roberto Peña wrote: The problem is that every day I put it to restart the IPFire at 03:00 am and if I have to login every day to start the iftop ... would be nice to default appeared something that shows activity.

If you'd installed 'mux', you can place a Shell script like this

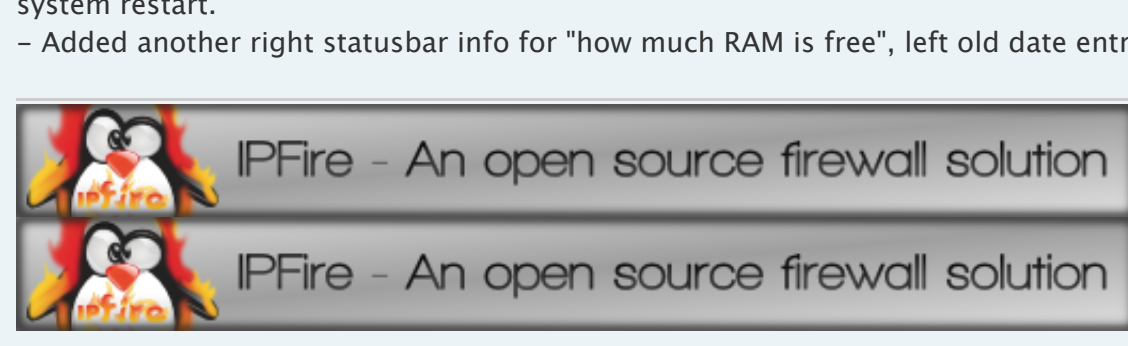
```
CODE: SELECT ALL
#!/bin/bash -
#
# Open mux script on IPFire with
# specialized window and pane structur
#
# ummeegge 10.02.2015
#####
# Login by SSH session
#
ssh -p 222 -t root@[IP-IPFire] mux
## End of mux.sh
```

on your admin machine, make it executable and enter in the 'mux' session by doubleclick it.

Greetings,

UE

- EDIT(s):
- Typos
- To figure out which pane numbers you got in a window use [CTRL-a] - q'.
- Added tmux itself to Addon check.
- Changed uptime command to who command in statusbar to investigate logged on users cause "," delimiter for cut do not work after system restart.
- Added another right statusbar info for "how much RAM is free", left old date entry outcommented but still present.



Re: New wiki for new addon tmux

by Roberto Peña • February 12th, 2015, 6:13 pm

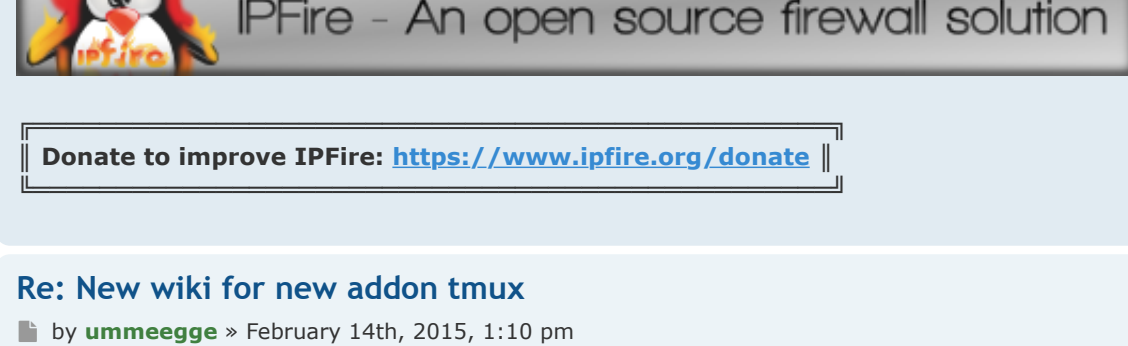
Guauuuu, very good !!!

If the next modification is made, starts at boot automatically without starting IPFire Login.

```
...
# Make script executable
chmod +x ${SCRIPT};
cp /usr/bin/mux /etc/init.d;
ln -s /etc/init.d/mux /etc/rc.d/rc3.d/S88mux
echo "Installer is finished now...";
echo "You can execute the Tmux script by simply typing 'mux' into the console, SSH session or Terminal."
...
```

Thanks for all.

For Morlix: To see this on the physical monitor.



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User profile for Roberto Peña: Posts: 761, Joined: July 16th, 2014, 3:56 pm, Location: Bilbao (España)

Re: New wiki for new addon tmux

by ummeegge • February 14th, 2015, 1:10 pm

Hi all, have changed a couple of things in the config file from the installer above (changes are listed in the EDIT lines) but if I look to the response for some questions, it seems anyway like there is not much interest to develop some IPFire templates or to communicate new ideas or wishes in here ?!

Roberto Peña wrote: Guauuuu, very good !!!

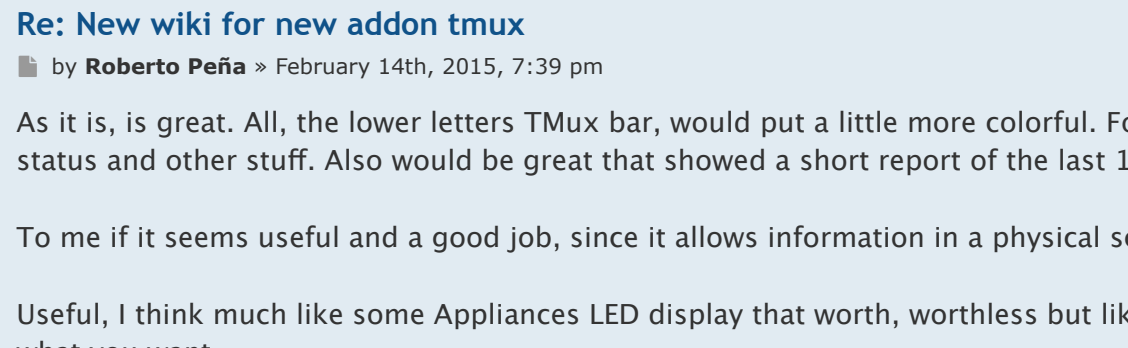
thanks for that feedback, but what do you think e.g. about the statusbar or the whole config file (colors etc.), also you shortened the script in your .zip file to iftop so i can't see really the advantages which Tmux serves in relation to a simple SSH command...

Roberto Peña wrote: # Make script executable
chmod +x \${SCRIPT};
cp /usr/bin/mux /etc/init.d;
ln -s /etc/init.d/mux /etc/rc.d/rc3.d/S88mux
echo "Installer is finished now...";
echo "You can execute the Tmux script by simply typing 'mux' into the console, SSH session or Terminal."
...

Not sure about the benefit of all that, but if you are happy with it....

Greetings,

UE



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User profile for Roberto Peña: Posts: 761, Joined: July 16th, 2014, 3:56 pm, Location: Bilbao (España)

Re: New wiki for new addon tmux

by Roberto Peña • February 14th, 2015, 7:39 pm

As it is, is great. All, the lower letters TMux bar, would put a little more colorful. For example, a yellow and a few sticks of memory status and other stuff. Also would be great that showed a short report of the last 10 detected virus. etc...

To me if it seems useful and a good job, since it allows information in a physical screen.

Useful, I think much like some Appliances LED display that worth, worthless but like her and have her. This at least, can be set to show what you want.

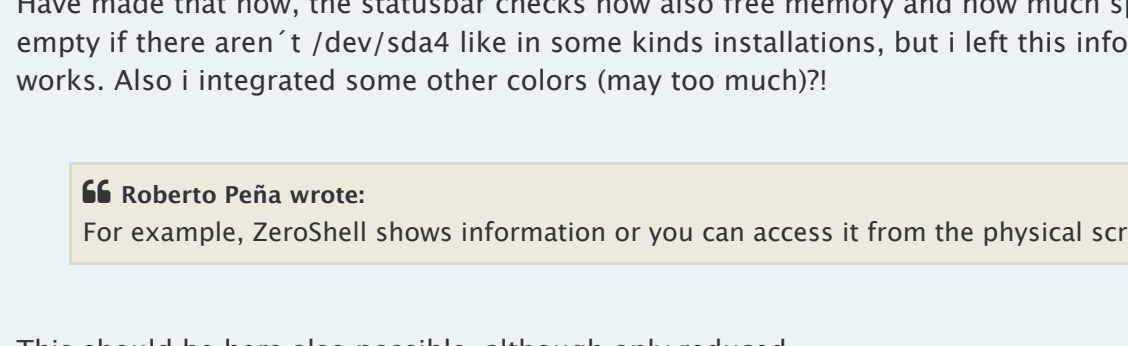
Thanks to the script you've done, it's much easier to implement this is very cool.

For example, ZeroShell shows information or you can access it from the physical screen without having to login as root

It seems to me a good job which lacks the IPFire and thanks to you, we have it.

Sorry for my english, is Google Translator.

Greetings,



Donate to improve IPFire: https://www.ipfire.org/donate

User profile for Roberto Peña: Posts: 761, Joined: July 16th, 2014, 3:56 pm, Location: Bilbao (España)

Re: New wiki for new addon tmux

by ummeegge • February 15th, 2015, 6:38 am

Good morning Roberto Peña, have wrote now an in-uninstaller with some more changes to the above one, but first

Roberto Peña wrote: As it is, is great. All, the lower letters TMux bar, would put a little more colorful. For example, a yellow and a few sticks of memory status and other stuff.

Have made that aren't, the statusbar checks now also free memory and how much space (in percent) is used in /var <-- this will be empty if there aren't /dev/sda4 like in some kinds installations, but i left this info for the first in so everybody can look on how this works. Also i integrated some other colors (may too much)?!

Roberto Peña wrote: For example, ZeroShell shows information or you can access it from the physical screen without having to login as root

This should be here also possible, although only reduced. If you add a new user for example like this:

```
CODE: SELECT ALL
useradd ue -d /home/ue -s /bin/bash -g users -m
passwd ue
```

'ue' is the username, his home is '/home/ue' and a group called 'users' will be created were he is associate to some more infos for that are here --> http://wiki.ipfire.org/en/optimization/..._user/start located) you can work also with Tmux. But for info, users with lowered privileges can't use some Addons (e.g. user iftop or iptraf-ng in our example) or some commands which you need to figure out before.

In that case it is also important that /tmp have 'drwxrwxrwt' permissions (which should be IPFires default) otherwise you get an

```
CODE: SELECT ALL
open("/usr/lib/gconv/gconv-modules", O_RDONLY) = 3
getcwd("/root", 4096) = 0
access("/bin/bash", X_OK) = 0
access("/home/ue/.tmux.conf", R_OK) = 0
mkdir("/tmp/.tmux-1005", 0700) = -1 EACCES (Permission denied)
can't create socket: Permission denied
+++ exited with 1 +++
```

but otherwise you can use Tmux also with other users then root (e.g. saidar, bwm-ng, mtr, ... works).

Roberto Peña wrote: Thanks to the script you've done, it's much easier to implement this is very cool.

Thanks for the flowers

O.K. here now the new TMux template in-- installer:

```
CODE: SELECT ALL
#!/bin/bash -
#
# Script checks for ~/.tmux.conf file and installs it if not present.
# Integrates tmux bash script for pane and window structure.
# Special layout of tmux will be executed by the script,
# which will be placed under /usr/bin with the name 'mux'.
# Uninstaller is meanwhile also available.
#
# ummeegge 13.02.2015
#####
# mtr, iftop, bwm-ng and iptraf-ng and tmux will be used by the script,
# and will be installed if they are not present.
```

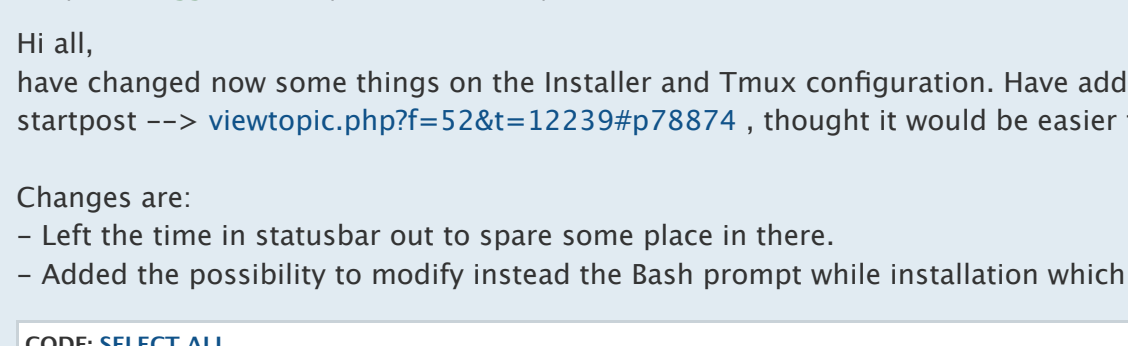
Whats new:

- Installer checks if there are a existing config or mux script, if so he will ask you to back it up or if he should overwrite it.
- Also non root users can use this installer to place the configuration file in their ~ directory. But there are restrictions, no kfire usage, no mux script integration this needs to be done before with root privileges.
- Right statusbar serves now (for test purposes) df -h (only viewable for installations with /dev/sda4) for how much disk space is used in /var and free -m for how much memory is free.
- Separated left and right statusbar sides with an green '|' so the window tabs should be a little better distinguish from the other infos.
- The space for more then one tab in the statusbar (depends also on the length of the window name) will be a little less cause of all the other infos but you can also use the mouse by doubleclicking the arrows '<' or '>'
- There is now also an uninstaller available. Related Addons can also be installed.

Hope i haven't forgot something. Please report bugs and use only testing systems for this.

Greetings,

UE



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User profile for ummeegge: Posts: 5001, Joined: October 9th, 2010, 10:00 am

Re: New wiki for new addon tmux

by ummeegge • February 23rd, 2015, 5:50 pm

Hi all, have changed now some things on the Installer and Tmux configuration. Have added a new section for the current dev state in the startpost --> viewtopic.php?f=52&t=12239#p78874, though it would be easier to find all in one place at the start.

- Changes are:
- Left the time in statusbar out to spare some place in there.
- Added the possibility to modify instead the Bash prompt while installation which shows instead the time and it looks like this,

```
CODE: SELECT ALL
[Mon Feb 23 18:37:55] [root@ipfire-server] ~
->
```

this shurley is a matter of taste (i like it) but first there is no need to install it while the script provides it and second if someone usage no mux script integration this needs to be done before with root privileges.

you need then to logout and login again and the old prompt appears like before.
-- Some other things was changed in the script itself.

Greetings,

UE



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