

[Learn > tmux](#)

# tmux

Learn to use tmux, one of the most powerful multi-tasking tools on linux!

Easy 20 min

[Start AttackBox](#)[Help](#)[Save Room](#)[👍 1196](#)[Options](#)

## Target Machine Information

Title	Target IP Address	Expires
DVWA	10.10.12.117	49min 9s
<a href="#">?</a>	<a href="#">Add 1 hour</a>	<a href="#">Terminate</a>

Task 1 Screens wishes it was this cool.



# tmux

[▶ Start Machine](#)

tmux, the terminal multiplexer, is easily one of the most used tools by the Linux community (and not just pentesters!). While not a malicious tool, tmux makes running simultaneous tasks

throughout a pentest incredibly easy. In this primer room, we'll walk through the process of installing and using some of the most common key combinations used in tmux. (Note, the installation process in this is geared towards Kali/Ubuntu.)

*You can do this room either via the AttackBox/Kali machine provided by TryHackMe or with your own Kali machine! All of the commands for the questions will be done on your machine. The machine attached to this room is purely for scanning/demo purposes. - Dark*

[tmux sessions] linuxacademy.local		[tmux windows] linuxacademy.local	
<p><b>_ new sessions</b></p> <pre>tmux tmux new tmux new-session tmux new -s sessionname</pre> <p><b>_ attach sessions</b></p> <pre>tmux a tmux att tmux attach tmux attach-session tmux a -t sessionname</pre>	<p><b>_ remove sessions</b></p> <pre>tmux kill-ses tmux kill-session -t sessionname</pre> <p><b>_ key bindings</b></p> <pre>Ctrl + B \$ rename session Ctrl + B D detach session Ctrl + B ) next session Ctrl + B ( previous session</pre>	<p><b>_ windows</b> are like tabs in a browser. Windows exist in sessions and occupy the space of a session screen.</p> <p><b>_ key bindings</b></p> <pre>Ctrl + B C create window Ctrl + B N move to next window Ctrl + B P move to previous window Ctrl + B L move to window last used</pre>	<pre>Ctrl + B 0..9 select window by number Ctrl + B , select window by name Ctrl + B . change window number Ctrl + B , rename window Ctrl + B F search windows Ctrl + B &amp; kill window Ctrl + B W list windows</pre>
[tmux panes] linuxacademy.local		[tmux copy mode] linuxacademy.com	
<p><b>_ panes</b> are sections of windows that have been split into different screens – just like the panes of a real window!</p> <p><b>_ key bindings</b></p> <pre>Ctrl + B % vertical split Ctrl + B % horizontal split Ctrl + B + move to pane to the right Ctrl + B + move to pane to the left</pre>	<pre>Ctrl + B ↑ move up to pane Ctrl + B ↓ move down to pane Ctrl + B O go to next pane Ctrl + B ; go to last active pane Ctrl + B } move pane right Ctrl + B { move pane left Ctrl + B ! convert pane to window Ctrl + B X kill pane</pre>	<p><b>_ key bindings</b></p> <pre>Ctrl + B [ enter copy mode Ctrl + B ] paste from buffer</pre> <p><b>_ copy mode commands</b></p> <pre>space start selection enter copy selection Esc clear selection g go to top</pre>	<pre>G go to bottom h move cursor left j move cursor down k move cursor up l move cursor right / search # list paste buffers q quit</pre>

Link to the above cheat sheet: [Link](#)

Original credit for the cheat sheet goes to [Linux Academy](#)

For another excellent resource on learning tmux, check out lppSec's video: [Link](#)

Enjoy the room! For future rooms and write-ups, follow [@darkstar7471](#) on Twitter.

Answer the questions below

First things first, let's go ahead and install tmux. This can be done on Ubuntu/Kali with the command: apt-get install tmux

☒ Correct Answer☐ Hint

Once tmux is installed, let's launch a new session. What command do we use to launch a new session without a custom name?

☒ Correct Answer☐ Hint

All tmux commands start with a keyboard button combination. What is the first key in this combination?

☒ Correct Answer☐ Hint

How about the second key? Note, these keys must be pressed at the same time and released before pressing the next target key in the combination.

☒ Correct Answer☐ Hint

Lets go ahead and detach from our newly created tmux session. What key do we need to add to the combo in order to detach?

☒ Correct Answer☐ Hint

Well shoot, we've detached from our session. How do we list all of our sessions?

☒ Correct Answer☐ Hint

What did our session name default to when we created one without a set name?

☒ Correct Answer☐ Hint

Now that we've found the name of our session, how do we attach to it?

☒ Correct Answer☐ Hint

Let's go ahead and make a new window in this session. What key do we add to the combo in order to do this?

Seems like we have plenty of windows and nothing to fill them up with. Let's remedy that problem by deploying the VM above and running an nmap scan against it. Deploy the VM now.

Run the following scan against the VM: `nmap -sV -vv -sC TARGET_IP`

Whew! Plenty of output to work with now! If you work with a relatively small terminal like me, this output might not all fit on screen at once. To fix that, let's enter 'copy mode'. What key do we add to the combo to enter copy mode?

Copy mode is very similar to 'less' and allows us to scroll up and down using the arrow keys. What if we want to go up to the very top?

How about the bottom?

What key do we press to exit 'copy mode'?

This window we're working in is nice and all but I think we need an upgrade. What key do we add to the combo to split the window vertically?


How about horizontally?

We can now move between these panes using the key combo and arrow keys, try it out!


No answer needed

✓ Correct Answer


We can also resize these panes by holding down the key combo and pressing the arrow keys




Access Machines



2

1 



Wait a minute, we've forgotten about our original window! We can go back it using the key combo and the number of the session! Try going back to this original window and then returning to our new one!

No answer needed

✓ Correct Answer

Say one of these newly minted panes becomes unresponsive or we're just done working in it, what key do we add to the combo to 'kill' the pane?

X

✓ Correct Answer

 Hint

Now that's we've finished out work, what can we type to close the session?

exit

✓ Correct Answer

 Hint

Last but not least, how do we spawn a named tmux session named 'neat'?

tmux new -s neat

✓ Correct Answer

 Hint

Created by

 [DarkStar7471](#)

Room Type	Users in Room	Created
Free Room. Anyone can deploy virtual machines in the room (without being subscribed)!	30,863	1559 days ago

Copyright TryHackMe 2018-2024

