

Forum:[Hack Forums](#)

Thread: [Network adapter to Kali VM issue](#)

megadropbox12 - January 29, 2024, 12:56 am

Hello

I'm having a problem connecting a network adapter to Kali VM.
Here is some information:

Virtualization: VirtualBox Version 7.0.14

OS: Kali 2023.4

Network adapter: Alfa AWUS036ACM (MediaTek MT7612U chipset)

Alfa is saying that this adapter should be plug&play in Kali, however it isn't (at least for me).

3.0 USB controller in Virtualbox is enabled, MediaTek Inc. Wireless [0100] added to USB filter.
Kali VM sees and recognizes the adapter: Bus 002 Device 002: ID 0e8d:7612 MediaTek Inc. MT7612U 802.11a/b/g/n/ac Wireless Adapter
However it doesn't appear as network adapter in ip a.

Drivers installed on VM:

lsmod | grep mt76

```
mt76x2u          32768  1
mt76x2_common    32768  1 mt76x2u
mt76x02_usb      24576  1 mt76x2u
mt76_usb         49152  2 mt76x02_usb,mt76x2u
mt76x02_lib      106496  3 mt76x02_usb,mt76x2u,mt76x2_common
mt76             131072  5 mt76_usb,mt76x02_lib,mt76x02_usb,mt76x2u,mt76x2_common
mac80211         1396736  4 mt76,mt76x02_lib,mt76x02_usb,mt76x2u
cfg80211         1339392  5 mt76,mt76x02_lib,mac80211,mt76x02_usb,mt76x2_common
usbcore          409600  6 xhci_hcd,usbhid,mt76_usb,xhci_pci,mt76x02_usb,mt76x2u
```

Does anyone know how to resolve this issue?

chormet - January 29, 2024, 1:22 am

do you see any error when restart network?
also check error log and paste here.

Riggs - January 29, 2024, 2:00 am

Have you tried switching to USB 2.0? Or sudo systemctl restart networkmanager

ZeroTraces - January 30, 2024, 2:56 am

I would say from my experience and knowledge its best to dual boot into a live version of the distro you're using.

I have the exact same issue, with the exact same device and i'm receiving a 128gigs usb in the mail today, so ill keep you updated on how the dual booting process goes and if the wifi adapter will finally work.

There's a big difference between a VM and hosting the actual operating system.

megadropbox12 - January 30, 2024, 4:20 am

Guys, just after 3 days of troubleshooting, restarting, driver reinstalling and playing with different configurations it magically started working. Today I booted my VM to get the error log you asked for and surprisingly the adapter is shown as expected. The only thing I might have done differently today is plugging the adapter after a few minutes after the VM fully booted up. Maybe I was too fast to plug it in before that.

blackrose_x0x0 - January 30, 2024, 12:19 pm

(Jan 30, 2024 05:20 AM)megadropbox12 Wrote: [\[CITE\]](#) Guys, just after 3 days of troubleshooting, restarting, driver reinstalling and playing with different configurations it magically started working. Today I booted my VM to get the error log you asked for and surprisingly the adapter is shown as expected. The only thing I might have done differently today is plugging the adapter after a few minutes after the VM fully booted up. Maybe I was too fast to plug it in before that.

Glad to hear you got it up and working. I had a similar issue with an Alfa network card with Kali back in 2021 so I know it can sometimes be a little wonky. I had all of the correct drivers installed, and settings were correct in VMWare (or VirtualBox I don't remember what I was using then) but kept having issues. I ended up spinning up a new Kali VM and it has worked ever since.

Document what worked and didn't in case you have similar issues arise in the future like plugging the adapter in after the VM is fully booted, as you mentioned.