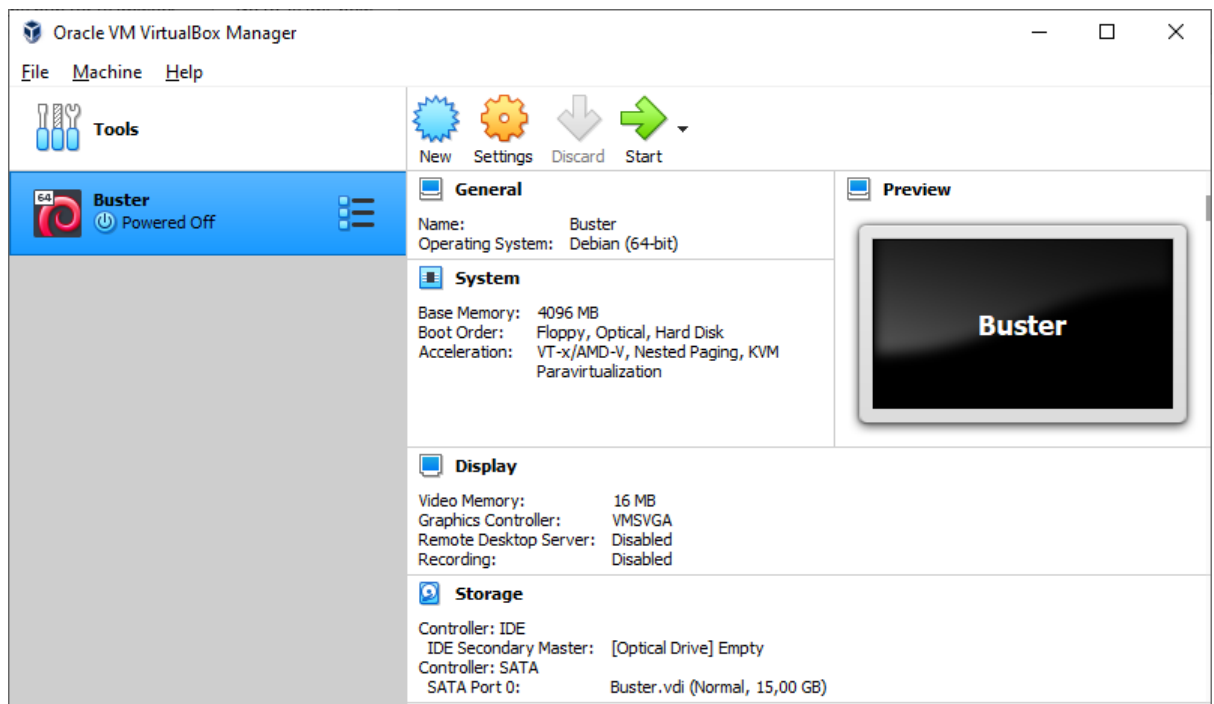
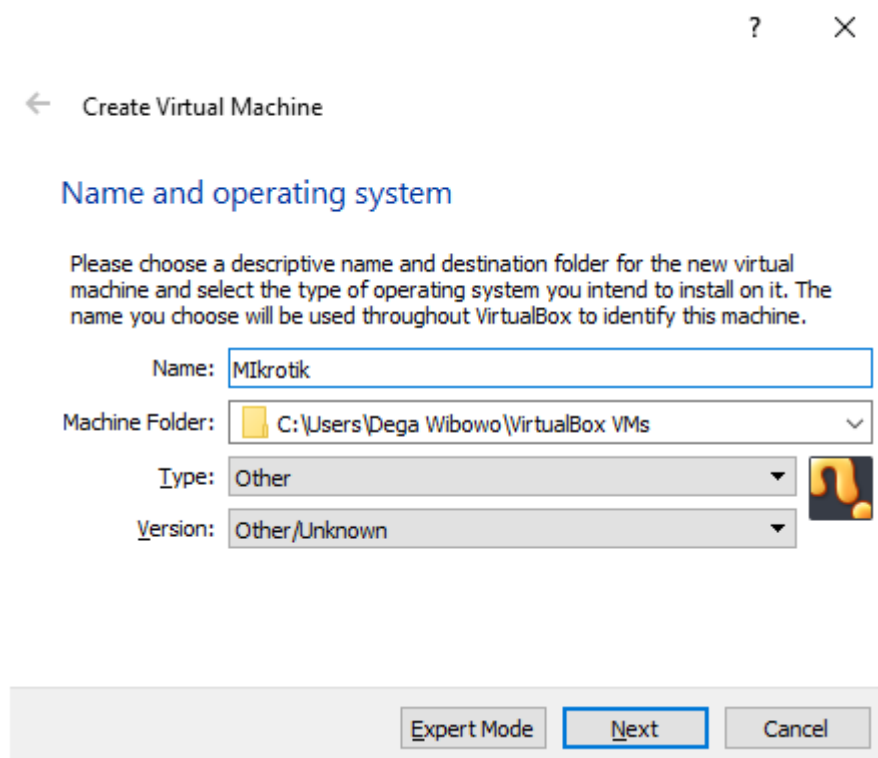


Instalasi Mikrotik 5.20 Pada VirtualBox

1. Download Os mikrotik Dulu
2. Download VirtualBox dan Install
3. Buka VirtualBox



4. Pilih New, Isikan Sesuai Gambar, Kemudian Next



5. Isikan Ram yang diinginkan, Kemudian Next (pakai RAM Minimal Saja)

?

×

← Create Virtual Machine

Memory size

Select the amount of memory (RAM) in megabytes to be allocated to the virtual machine.

The recommended memory size is **64 MB**.

4 MB 16384 MB

64 MB

Next Cancel

6. Create Virtual Harddisk Now, Pilih Next

?

×

← Create Virtual Machine

Hard disk

If you wish you can add a virtual hard disk to the new machine. You can either create a new hard disk file or select one from the list or from another location using the folder icon.

If you need a more complex storage set-up you can skip this step and make the changes to the machine settings once the machine is created.

The recommended size of the hard disk is **2,00 GB**.

☐ Do not add a virtual hard disk

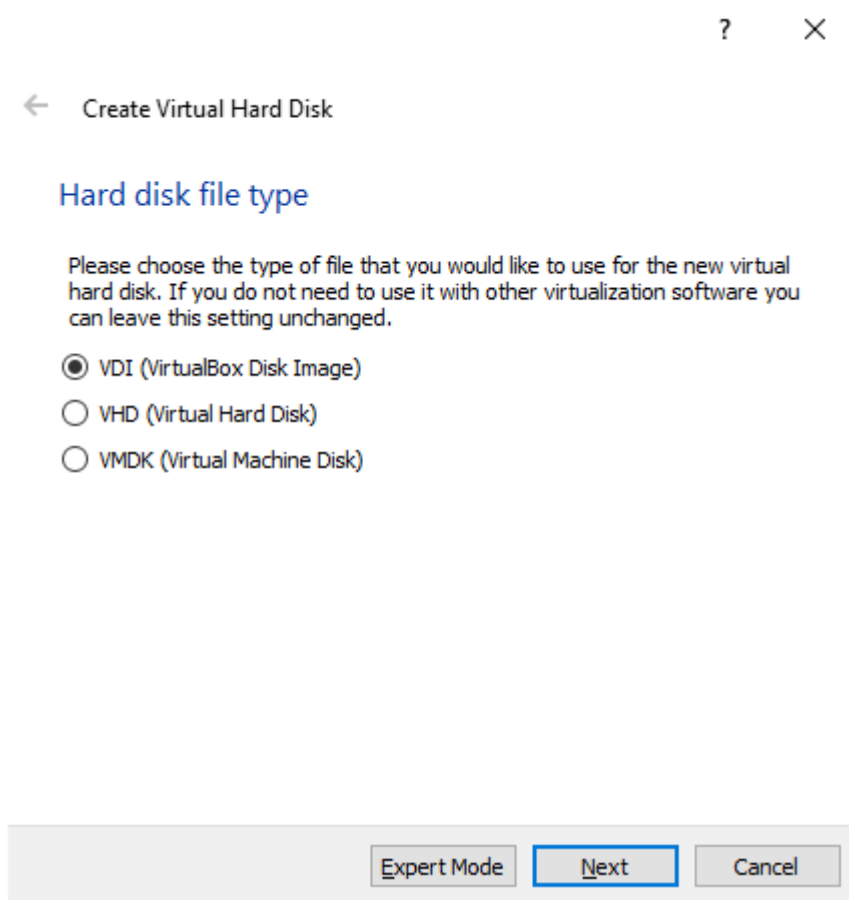
☒ Create a virtual hard disk now

☐ Use an existing virtual hard disk file

Buster.vdi (Normal, 15,00 GB)

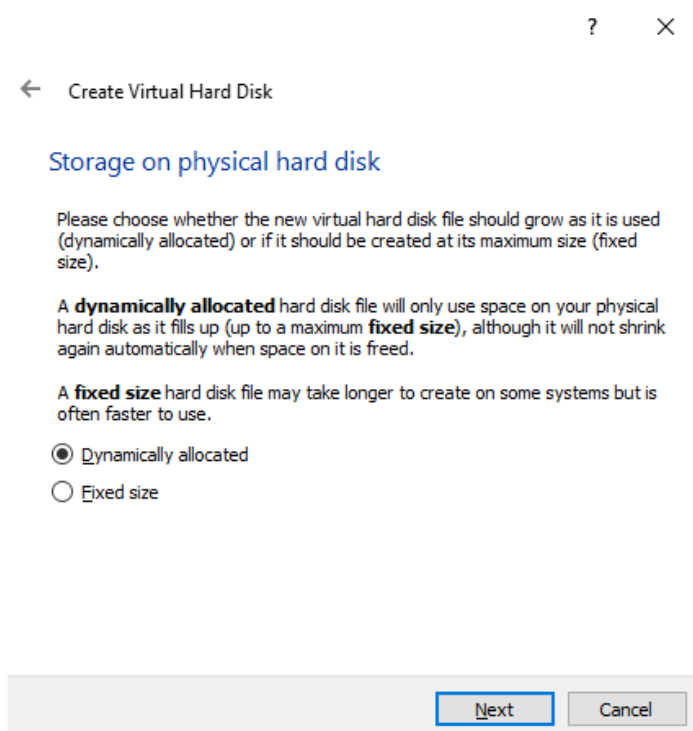
Create Cancel

7. Pilih VDI (Virtual Disk Image), Kemudian Next



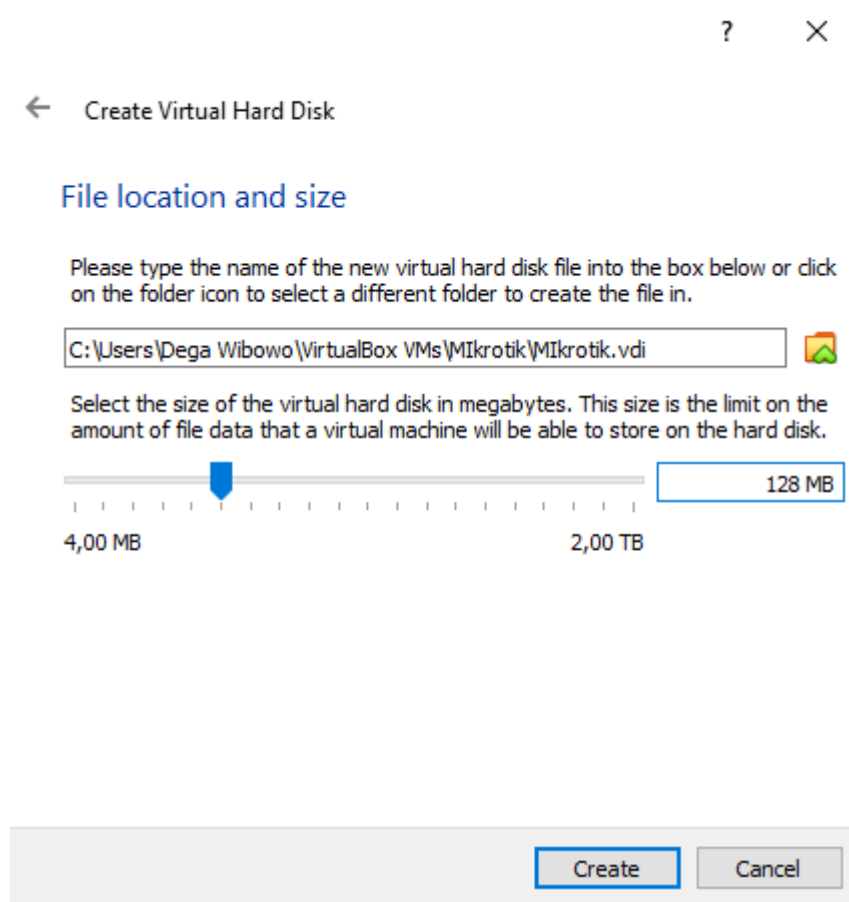
The screenshot shows a window titled "Create Virtual Hard Disk" with a back arrow and a close button (X). The main heading is "Hard disk file type". Below it, a text box explains: "Please choose the type of file that you would like to use for the new virtual hard disk. If you do not need to use it with other virtualization software you can leave this setting unchanged." There are three radio button options: "VDI (VirtualBox Disk Image)" (selected), "VHD (Virtual Hard Disk)", and "VMDK (Virtual Machine Disk)". At the bottom, there are three buttons: "Expert Mode", "Next" (highlighted with a blue border), and "Cancel".

8. Pilih Dynamic Allocated, Kemudian Next



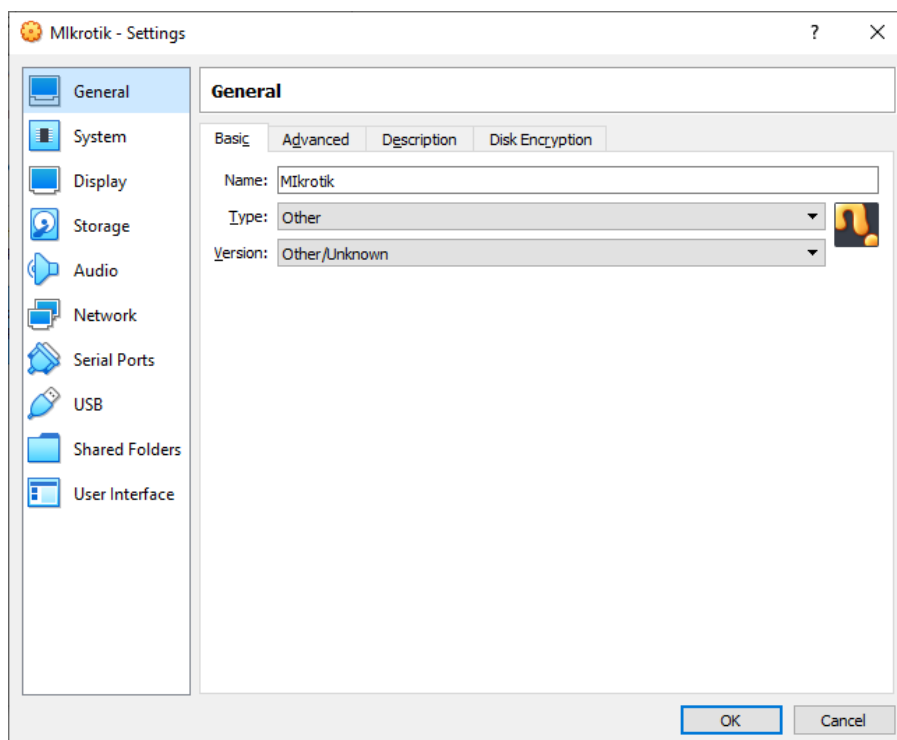
The screenshot shows a window titled "Create Virtual Hard Disk" with a back arrow and a close button (X). The main heading is "Storage on physical hard disk". Below it, a text box explains: "Please choose whether the new virtual hard disk file should grow as it is used (dynamically allocated) or if it should be created at its maximum size (fixed size)." There are two paragraphs of explanatory text. The first paragraph describes a "dynamically allocated" hard disk file, noting it will only use space as it fills up (up to a maximum "fixed size") and will not shrink again automatically. The second paragraph describes a "fixed size" hard disk file, noting it may take longer to create but is often faster to use. There are two radio button options: "Dynamically allocated" (selected) and "Fixed size". At the bottom, there are two buttons: "Next" (highlighted with a blue border) and "Cancel".

9. Pilih dan Isikan Sekitar 128 MB, Kemudian Create

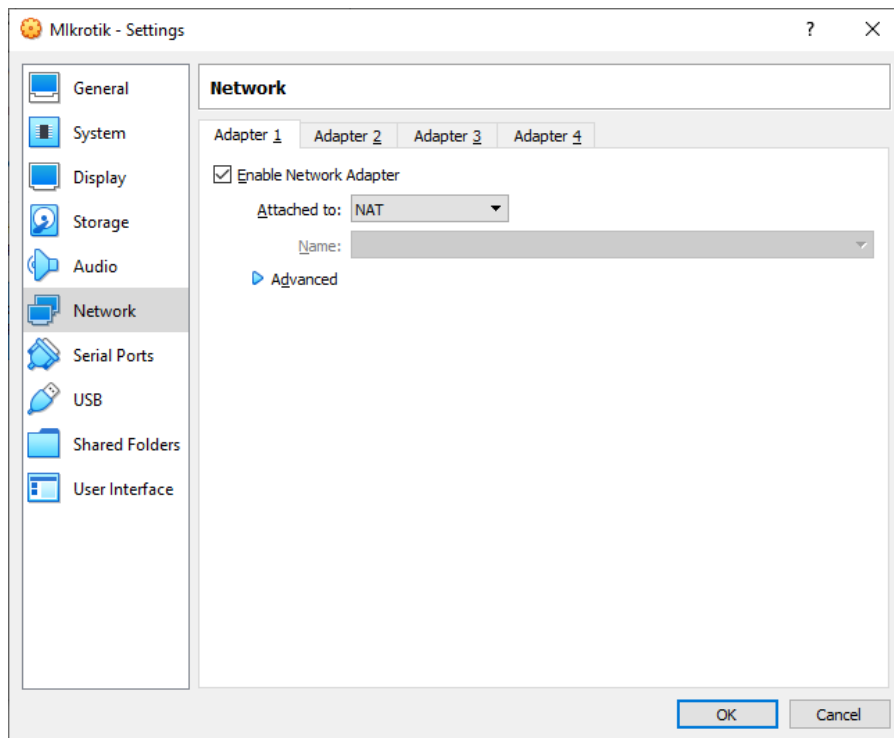


10. Selesai

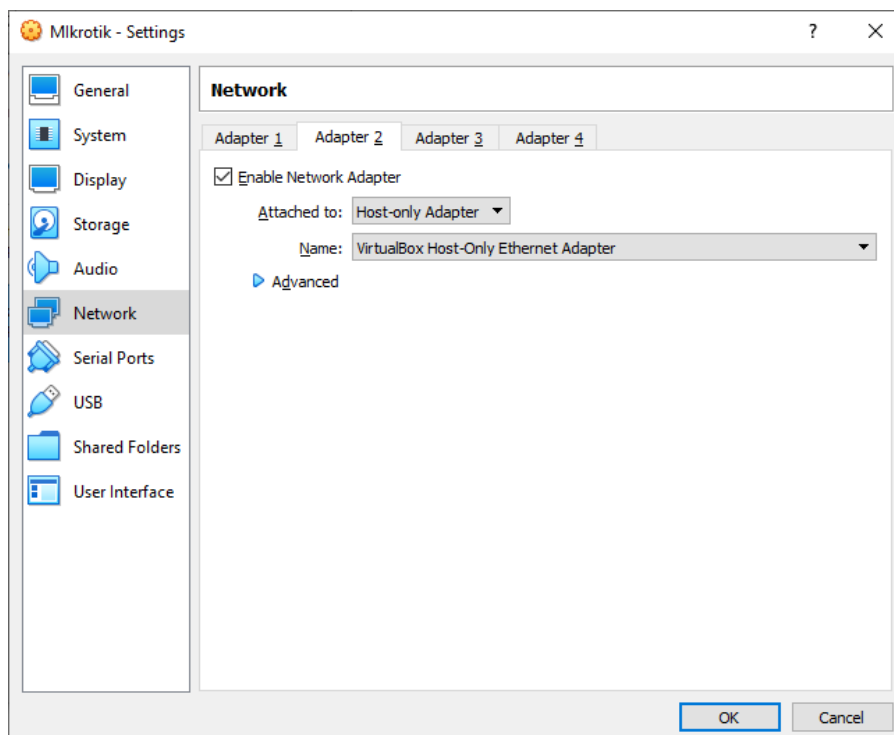
11. Masuk Ke Setting



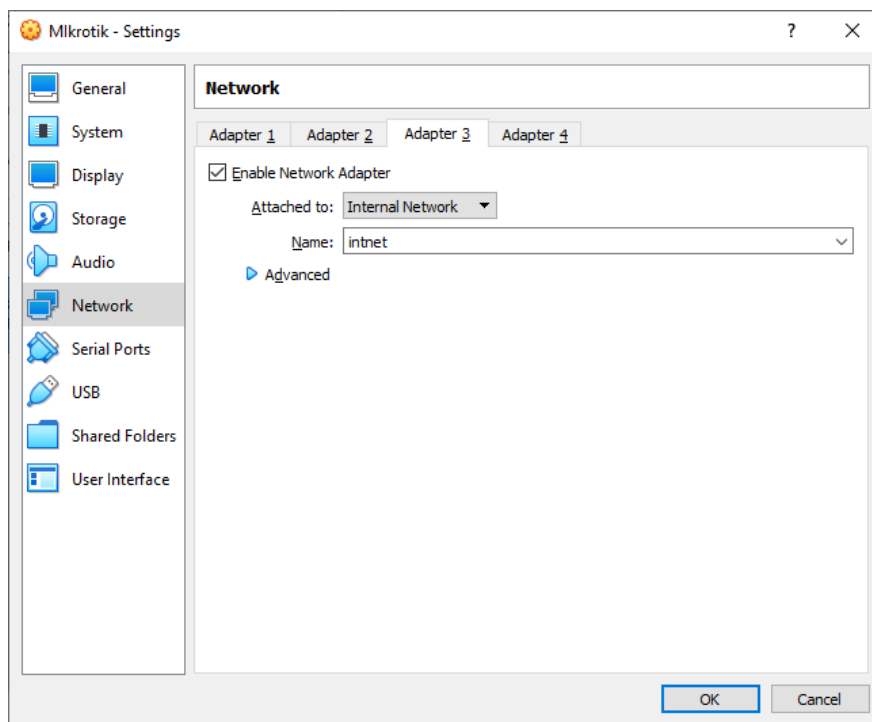
12. Pilih Network, Pilih adapter 1 Set ke NAT/Bridge Adapter



13. klik tab adapter 2 (Enable-kan), Pilih Host Only adapter / Hanya Host

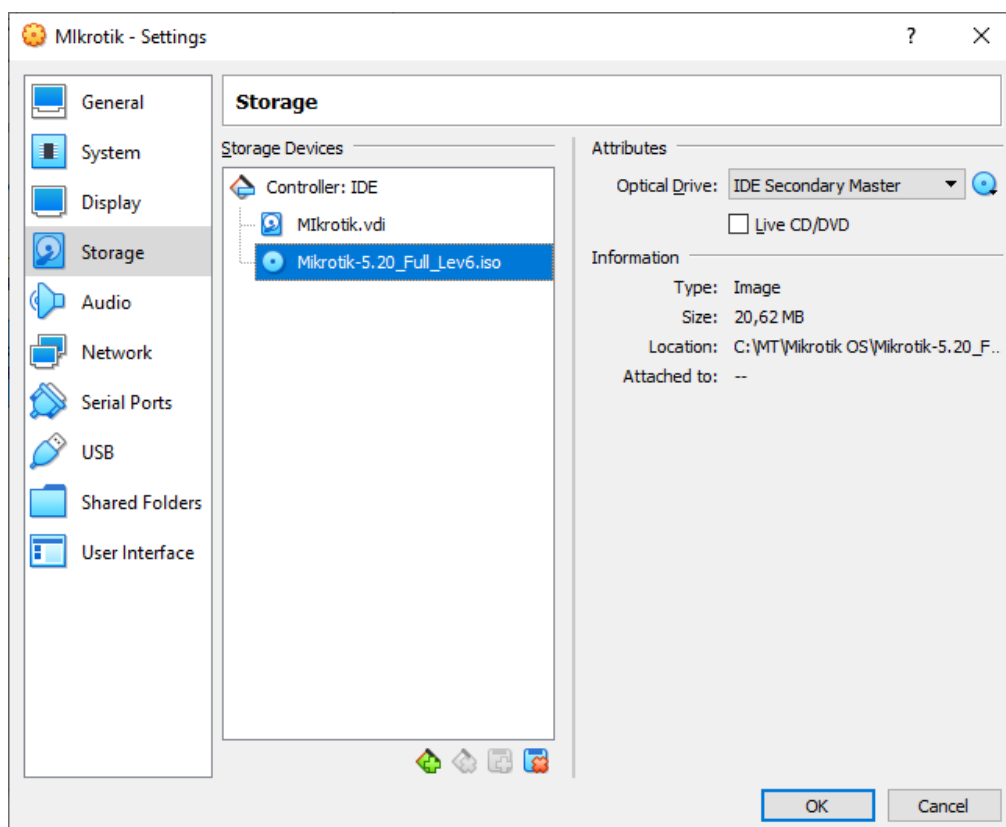


14. Klik tab adapter 3 (Enable-kan), Pilih Internal Network

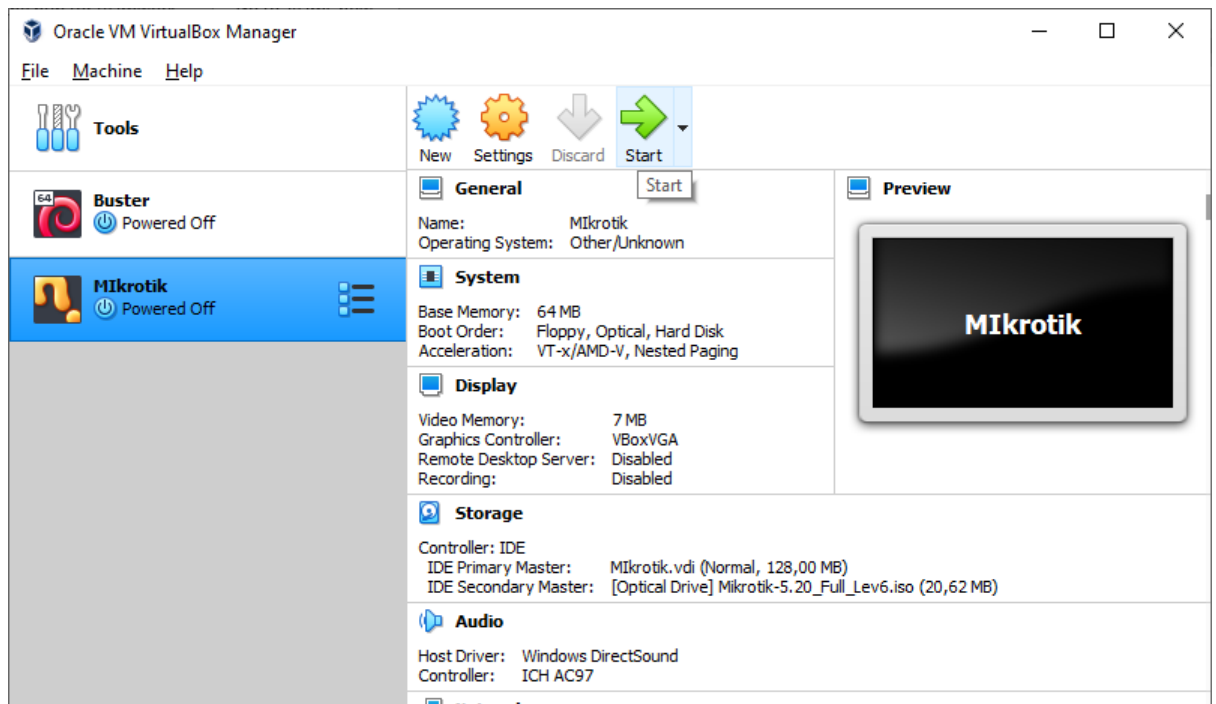


15. Total Harus ada 3 adapter yang aktif

16. Masih disetting Pilih Storage, Pilih CD (Empty/Kosong), Masukan ISO mikrotik yang sudah di download, Klik OK



17. Kemudian Pilih Start



18. Halaman Awal Instalasi,



19. Pilih/Pencet a (Select All)

```

Welcome to MikroTik Router Software installation

Move around menu using 'p' and 'n' or arrow keys, select with 'spacebar'.
Select all with 'a', minimum with 'm'. Press 'i' to install locally or 'q' to
cancel and reboot.

[X] system          [X] ipv6          [X] routerboard
[X] ppp             [X] isdn         [X] routing
[X] dhcp            [X] kvm           [X] security
[X] advanced-tools  [X] lcd           [X] ups
[X] calea           [X] mpls          [X] user-manager
[X] gps             [X] multicast     [X] wireless
[X] hotspot         [X] ntp

system (depends on nothing):
Main package with basic services and drivers
```

20. Kemudian Pencet I (install)

21. Do you want to keep old configuration Pilih y, continue y, kemudian tunggu sebentar

```

[X] dhcp            [X] kvm           [X] security
[X] advanced-tools  [X] lcd           [X] ups
[X] calea           [X] mpls          [X] user-manager
[X] gps             [X] multicast     [X] wireless
[X] hotspot         [X] ntp

system (depends on nothing):
Main package with basic services and drivers

Do you want to keep old configuration? [y/n]:y
Warning: all data on the disk will be erased!

Continue? [y/n]:y

WARNING: couldn't keep config - current license does not allow that
Creating partition.....
Formatting disk...
```


22. Selesai, Akan minta restart

```
installed system-5.20
installed wireless-5.20
installed user-manager-5.20
installed ups-5.20
installed security-5.20
installed routing-5.20
installed routerboard-5.20
installed ntp-5.20
installed multicast-5.20
installed mpls-5.20
installed lcd-5.20
installed kvm-5.20
installed isdn-5.20
installed ipv6-5.20
installed hotspot-5.20
installed gps-5.20
installed calea-5.20
installed advanced-tools-5.20
installed dhcp-5.20
installed ppp-5.20
Checking disk integrity...

Software installed.
Press ENTER to reboot
```

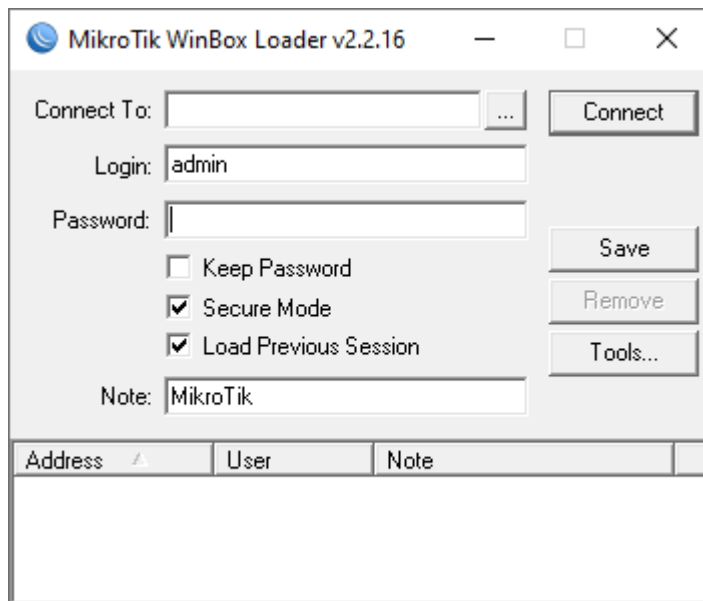
23. Silahkan Restart, jangan lupa remove CD mikrotik dari setting, supaya tidak masuk ke halaman awal instalasi lagi

24. Hasilnya

```
MikroTik 5.20
MikroTik Login:
```

25. Download Aplikasi winbox dari <http://www.mikrotik.co.id/getfile.php?nf=winbox-2.2.16.exe>

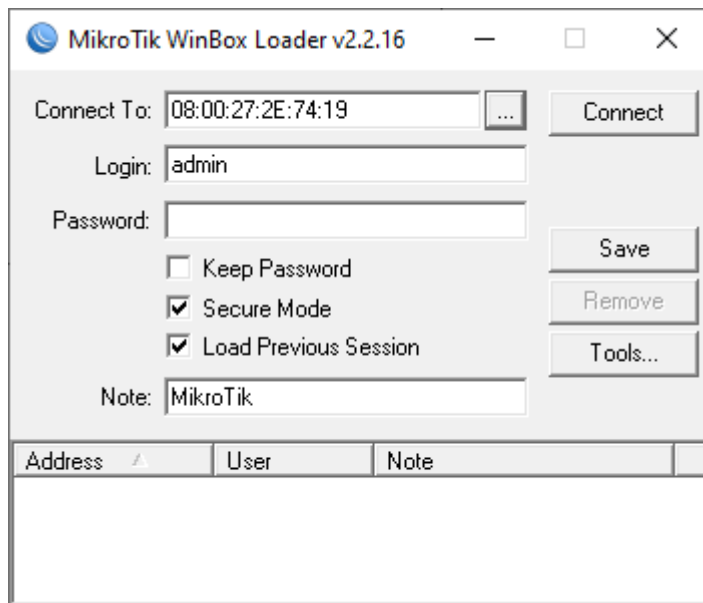
26. Buka Aplikasi Winbox yang baru di Download



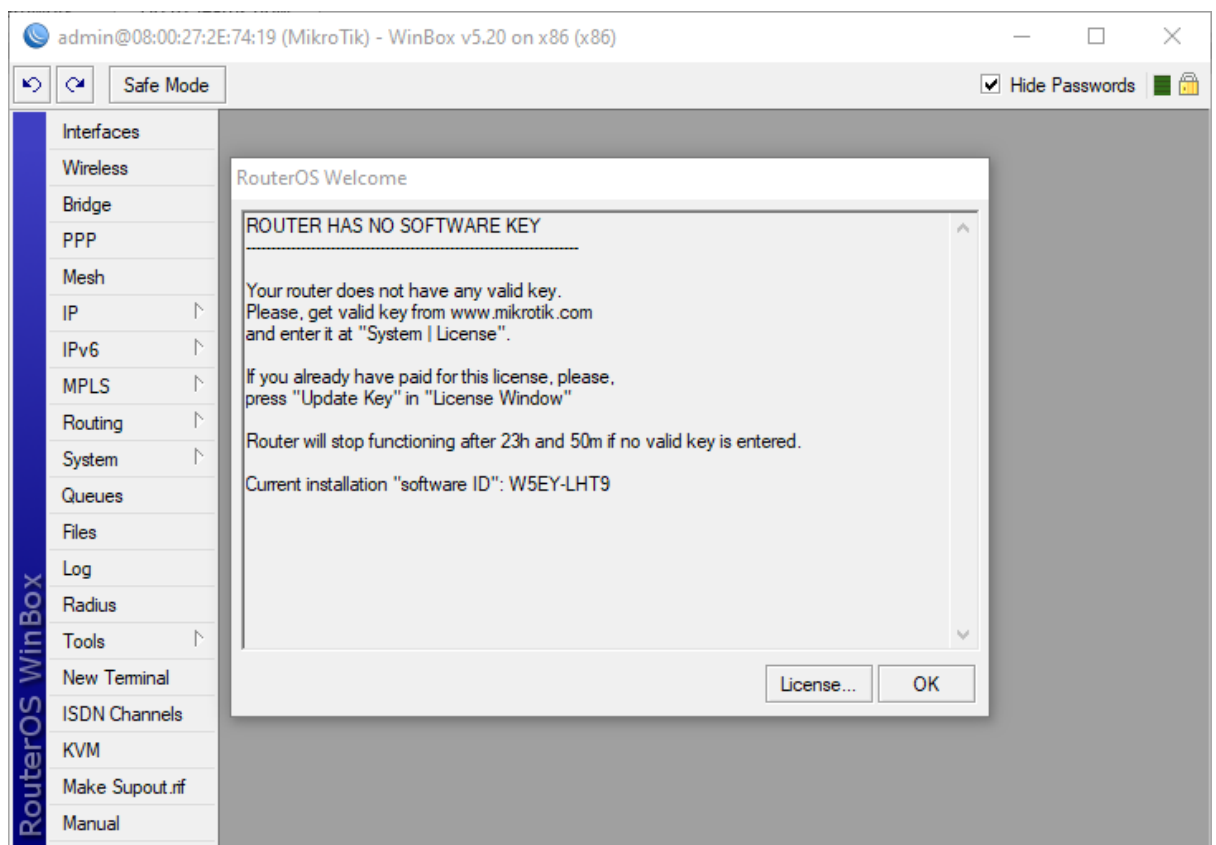
27. Pilih tombol tiga titik, sebelah tombol connect

MAC Address	IP Address	Identity	Version	Board N...	
08:00:27:2E:74:19	0.0.0.0	MikroTik	5.20	x86	
08:00:27:F4:68:F4	192.168.56.1	MikroTik	5.20	x86	

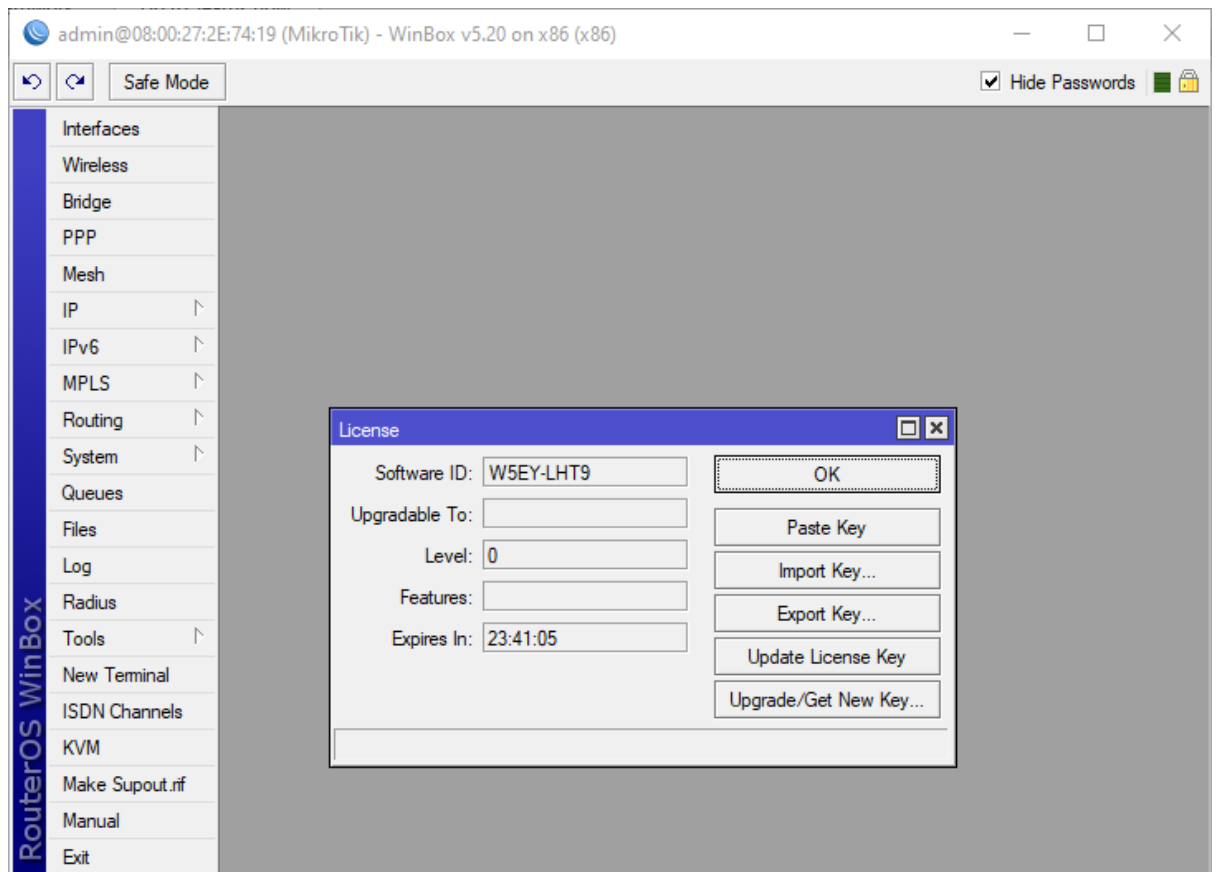
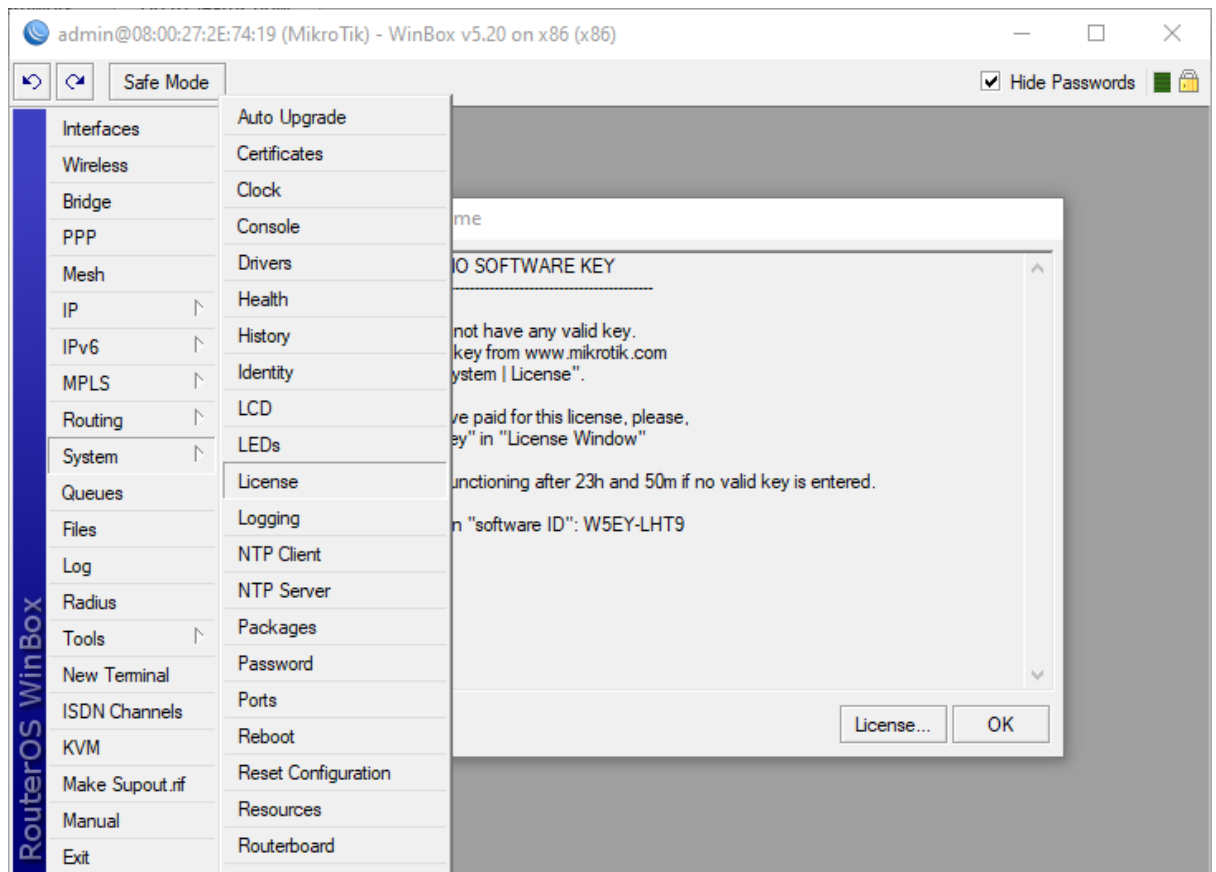
28. Pilih Mac Address salah Satu, Login admin, password dikosongkan, pilih Connect



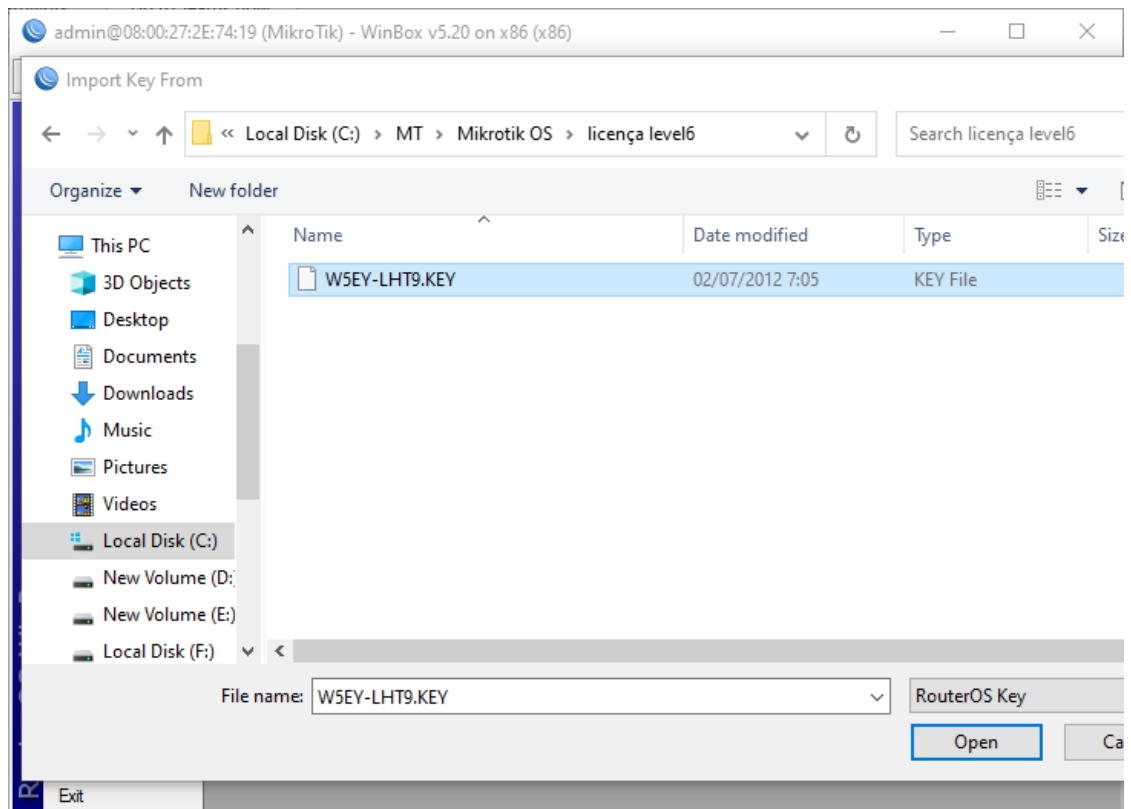
29. Hasilnya



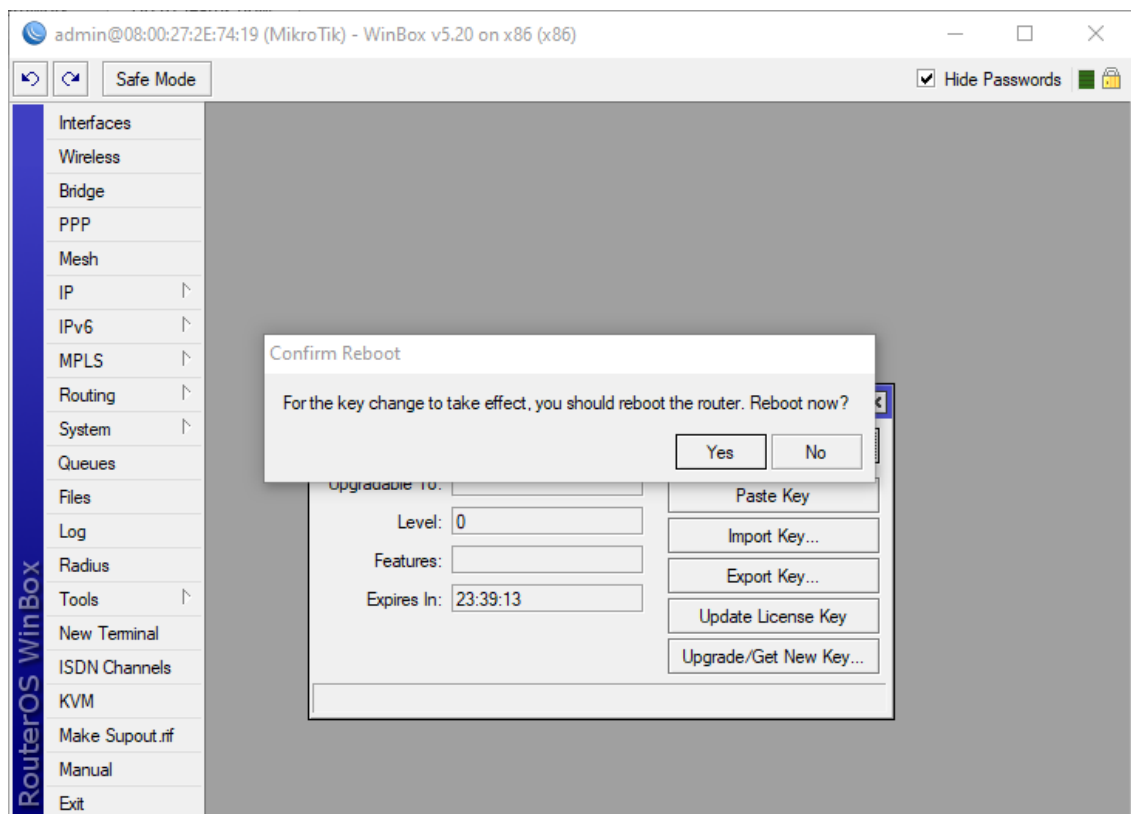
30. Pilih System Kemudian License



31. Pilih Import Key

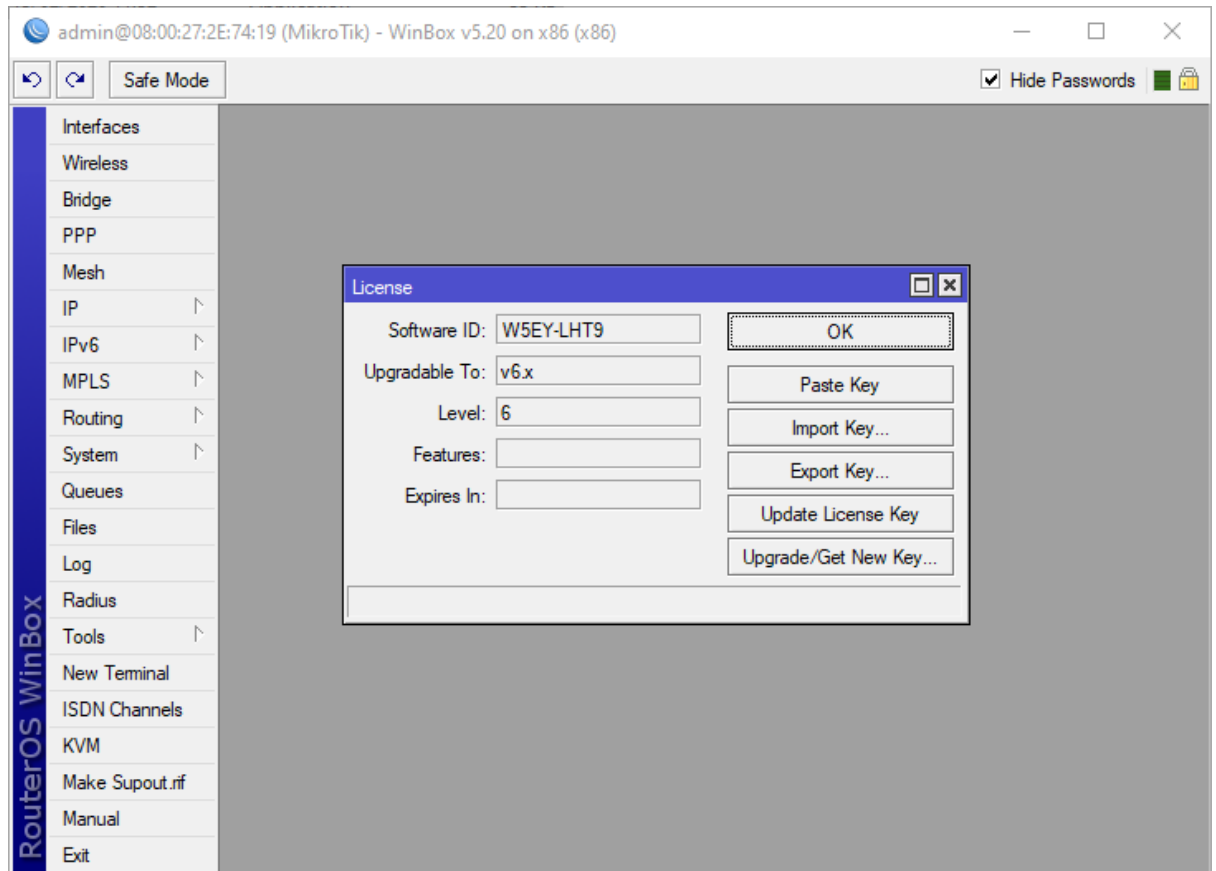


32. Cari Lisensi di folder Mikrotik, kemudian pilih licensinya klik 2 kali, mikrotik minta restart



33. Silahkan Restart

34. Mikrotik Sudah Bisa digunakan, cek license lagi (system – license) harusnya expire in nya sudah tidak ada.



35. Cek pada Interfaces Harusnya muncul 3 ether (ether1, ether2, ether3)

The screenshot shows the Mikrotik WinBox v5.20 interface. The left sidebar contains a menu with the following items: Interfaces, Wireless, Bridge, PPP, Mesh, IP, IPv6, MPLS, Routing, System, Queues, Files, Log, Radius, Tools, New Terminal, ISDN Channels, KVM, Make Supout.tif, Manual, and Exit. The main window displays the 'Interface List' dialog box. The 'Interface' tab is selected, showing a table of three Ethernet interfaces: ether1, ether2, and ether3. The table columns are Name, Type, L2 MTU, Tx, Rx, Tx Pac..., Rx Pac..., and Tx Drops. The status of each interface is indicated by a red lightning bolt icon in the 'Name' column.

	Name	Type	L2 MTU	Tx	Rx	Tx Pac...	Rx Pac...	Tx Drops
R	ether1	Ethernet		0 bps	0 bps	0	0	0
R	ether2	Ethernet		18.4 kbps	1608 bps	3	2	0
R	ether3	Ethernet		0 bps	0 bps	0	0	0

36. Mikrotik Sudah bisa digunakan (SELESAI)