

PENGANTAR TEKNOLOGI LAYANAN JARINGAN



XII TKJ

PENGERTIAN BRIKER



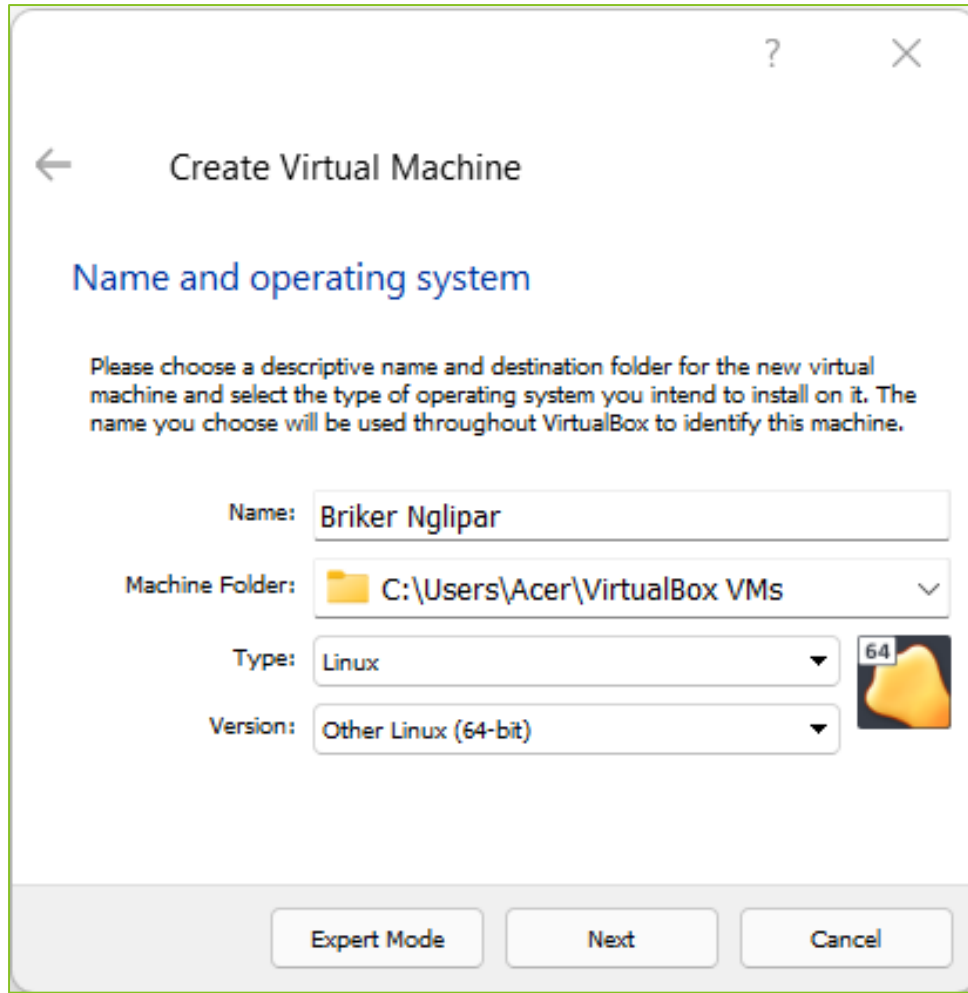
Briker adalah aplikasi yang memungkinkan pengguna linux menjadi server dalam layanan VoIP dan membangun sentral telephone sendiri.

PENGERTIAN IPBX



IP PBX atau Internet Protocol Private Branch Exchange adalah PABX yang menggunakan teknologi IP. IP PBX adalah perangkat switching komunikasi telepon dan data berbasis teknologi Internet Protocol yang mengendalikan ekstension telepon analog maupun ekstension IP Phone.

KONFIGURASI VIRTUAL BOX



Window: Create Virtual Machine

← Name and operating system

Please choose a descriptive name and destination folder for the new virtual machine and select the type of operating system you intend to install on it. The name you choose will be used throughout VirtualBox to identify this machine.

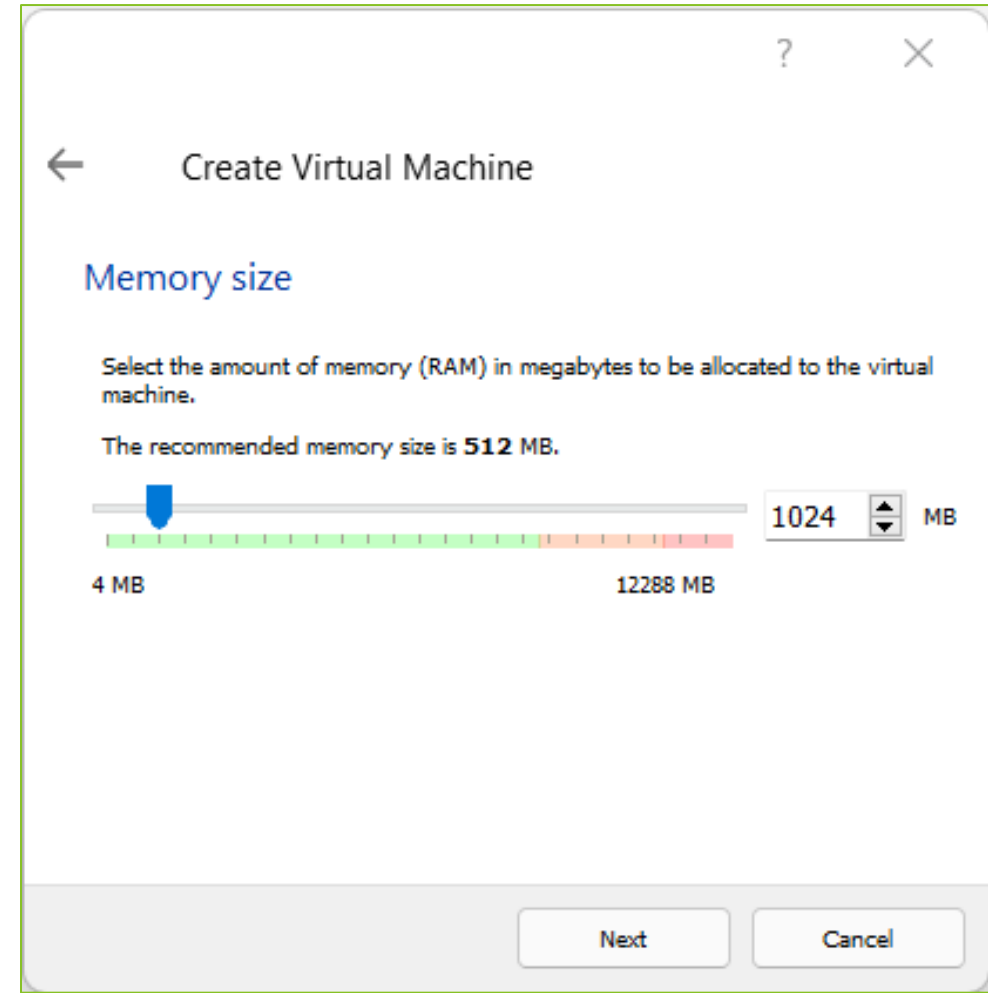
Name:

Machine Folder:

Type: 

Version:

Expert Mode Next Cancel

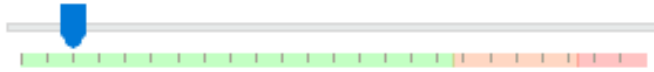


Window: Create Virtual Machine

← Memory size

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

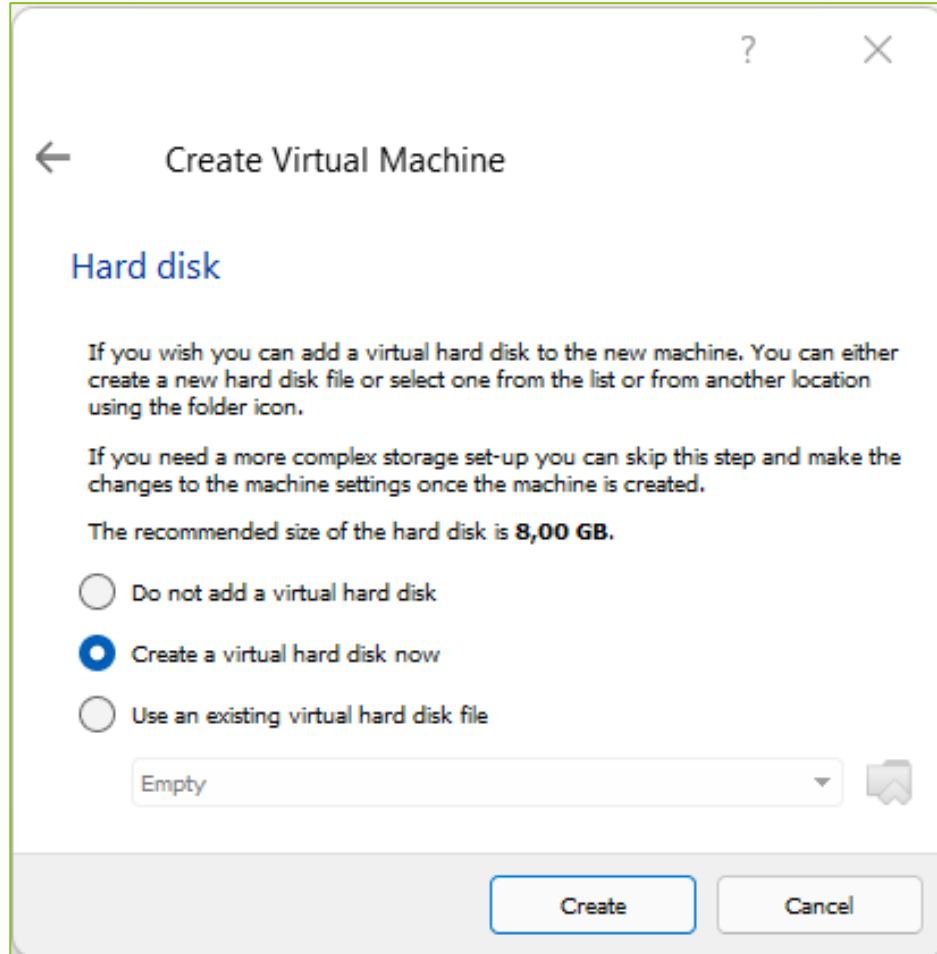
The recommended memory size is 512 MB.

 1024 MB

4 MB 12288 MB

Next Cancel

KONFIGURASI VIRTUAL BOX



?

← 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 **8,00 GB**.

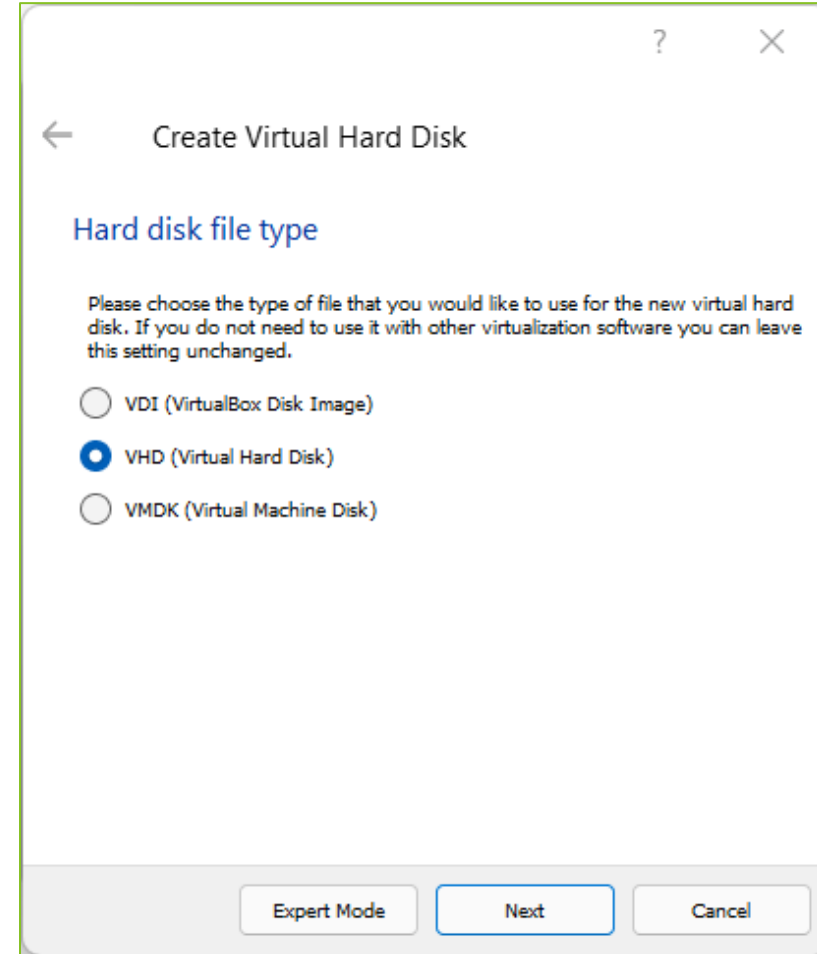
☐ Do not add a virtual hard disk

☒ Create a virtual hard disk now

☐ Use an existing virtual hard disk file

Empty

Create Cancel



?

← Create Virtual Hard Disk

Hard disk file type

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.

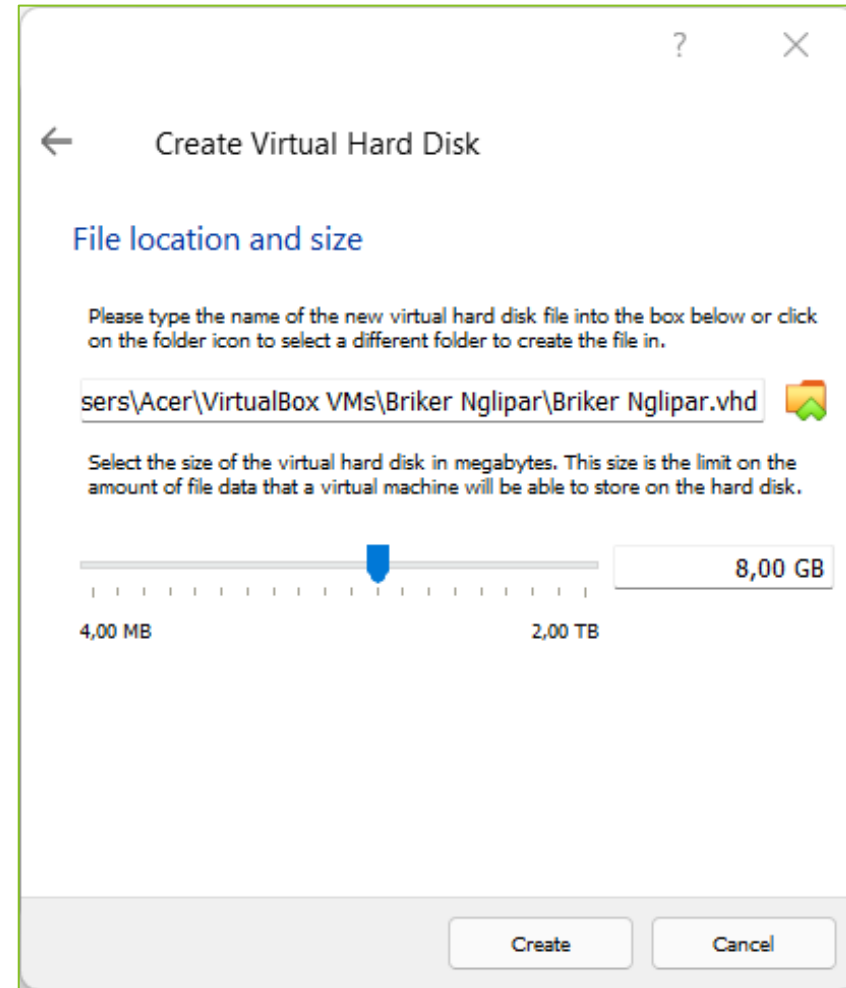
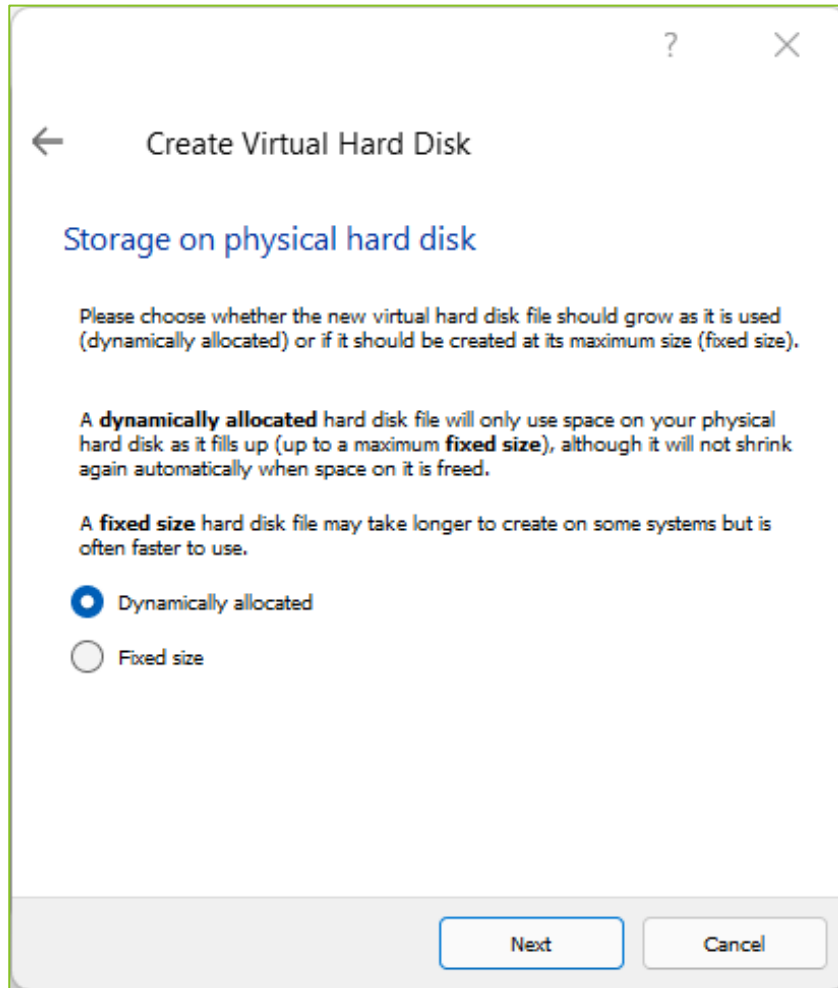
☐ VDI (VirtualBox Disk Image)

☒ VHD (Virtual Hard Disk)

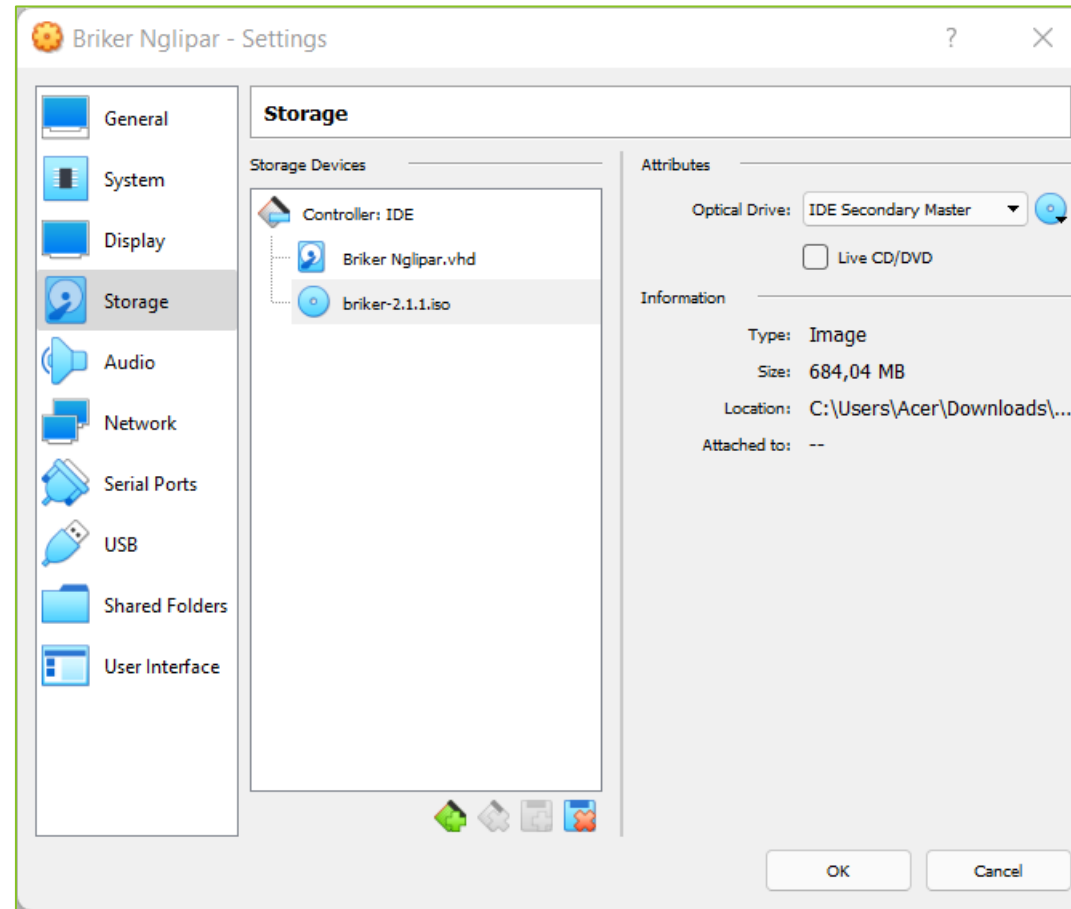
☐ VMDK (Virtual Machine Disk)

Expert Mode Next Cancel

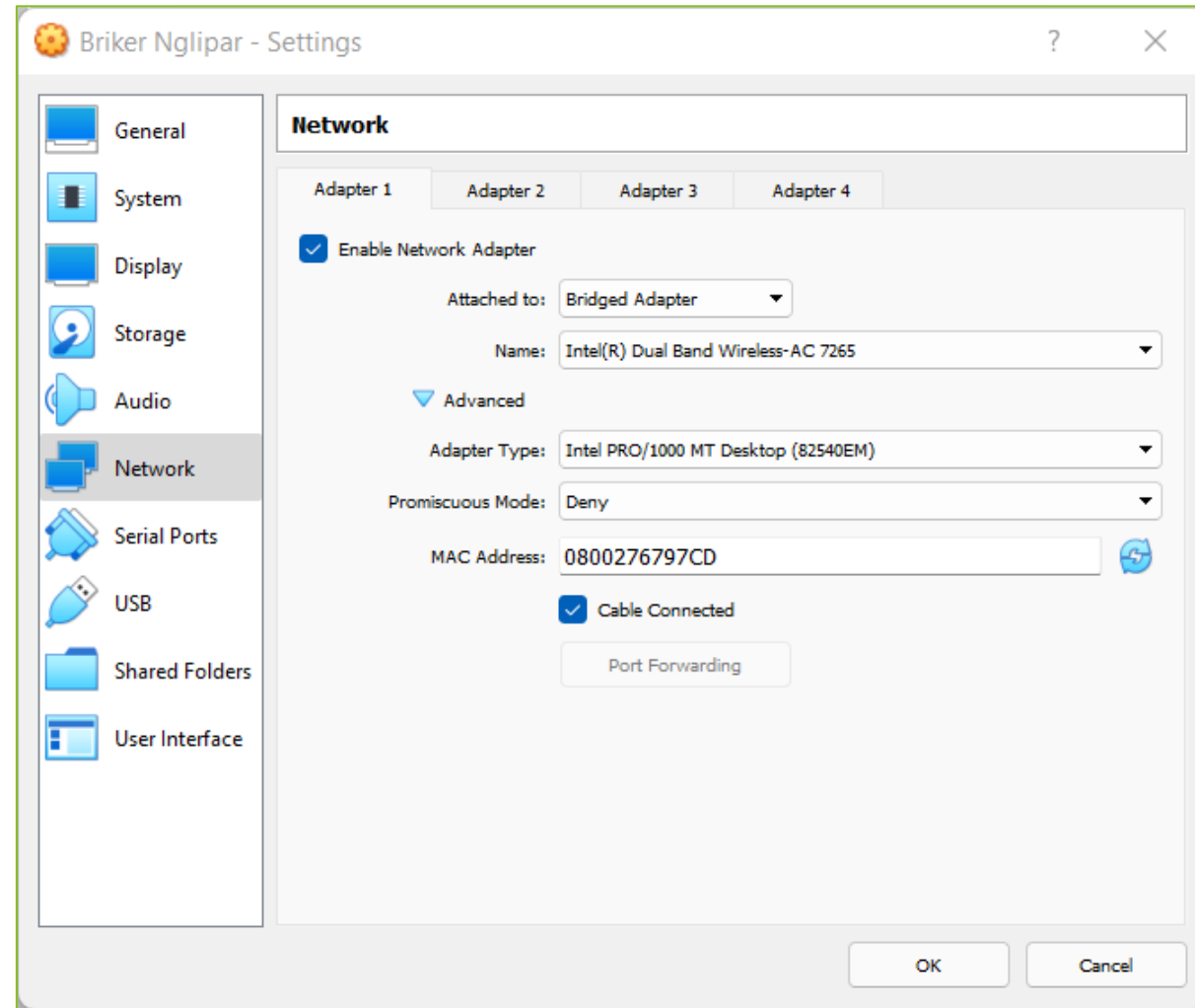
KONFIGURASI VIRTUAL BOX



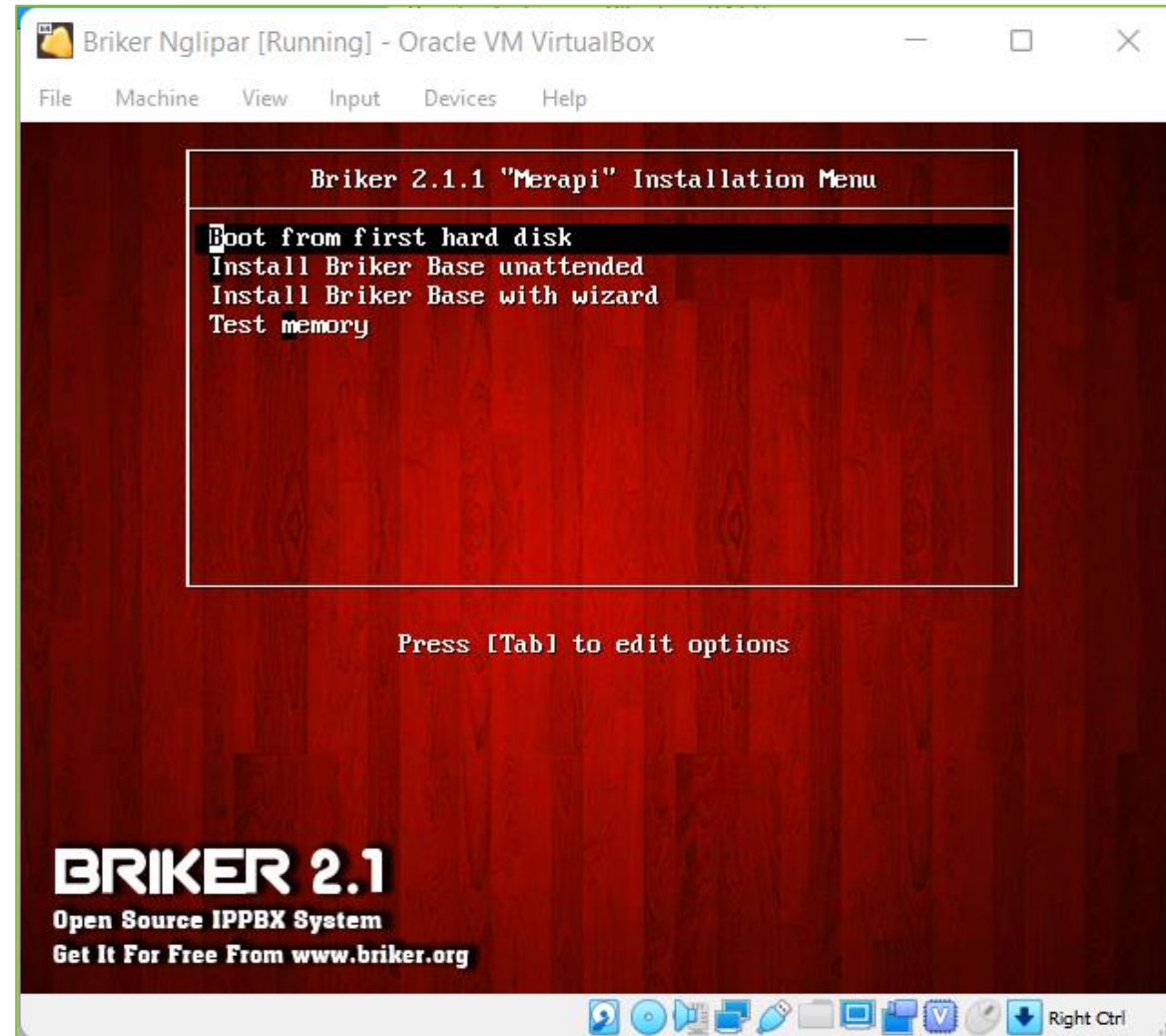
KONFIGURASI VIRTUAL BOX



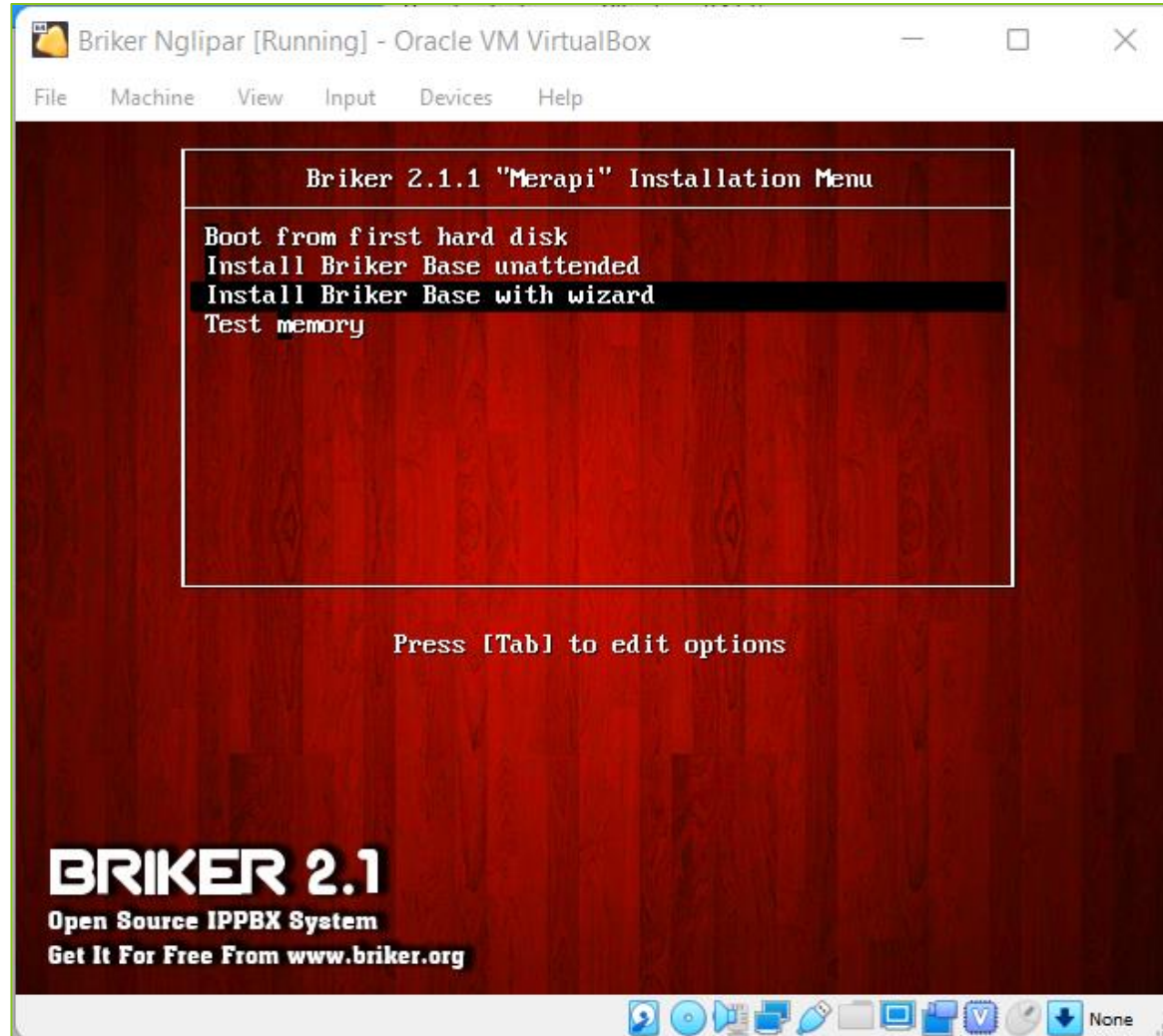
KONFIGURASI VIRTUAL BOX



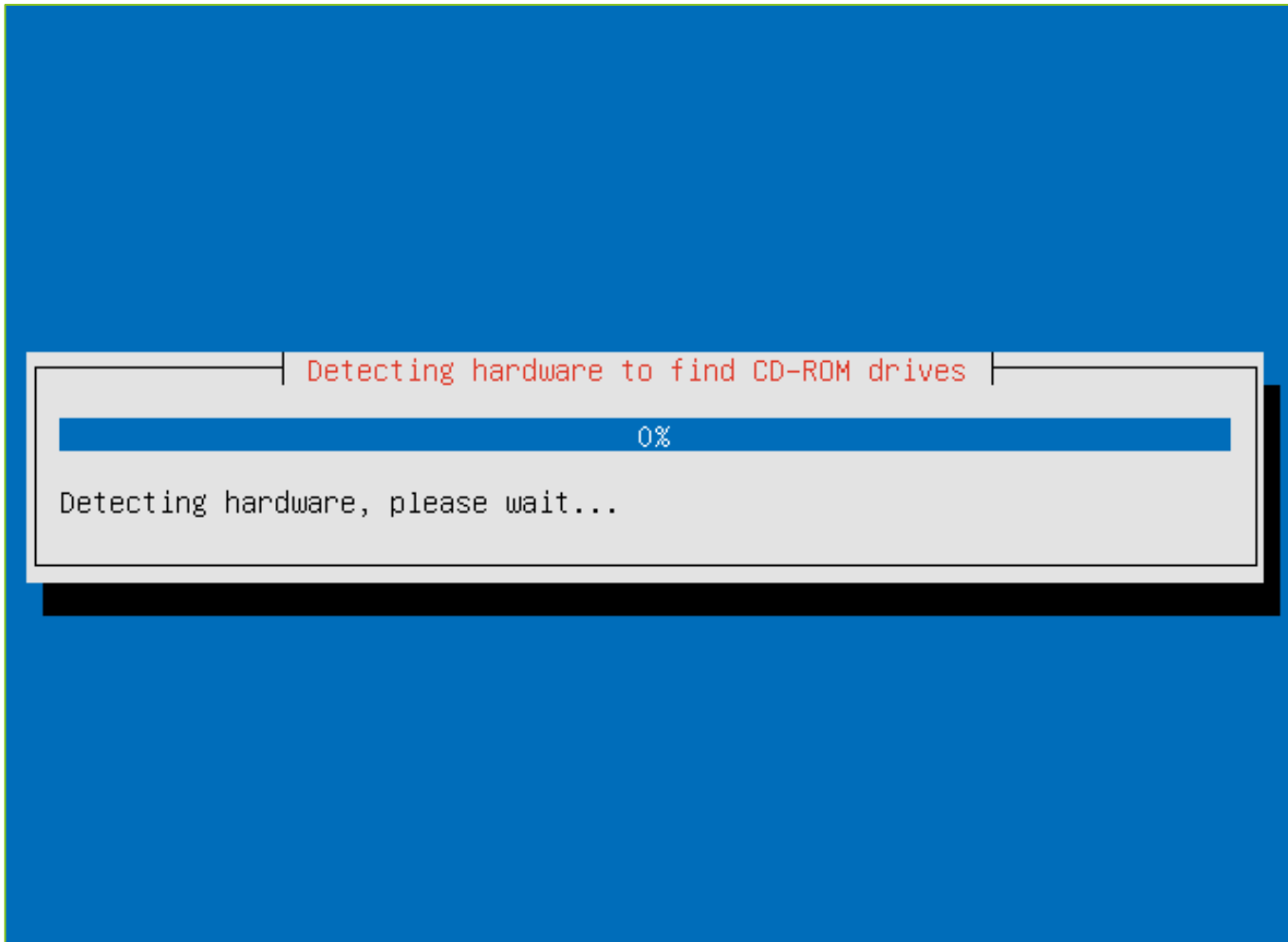
KONFIGURASI BRIKER



KONFIGURASI BRIKER



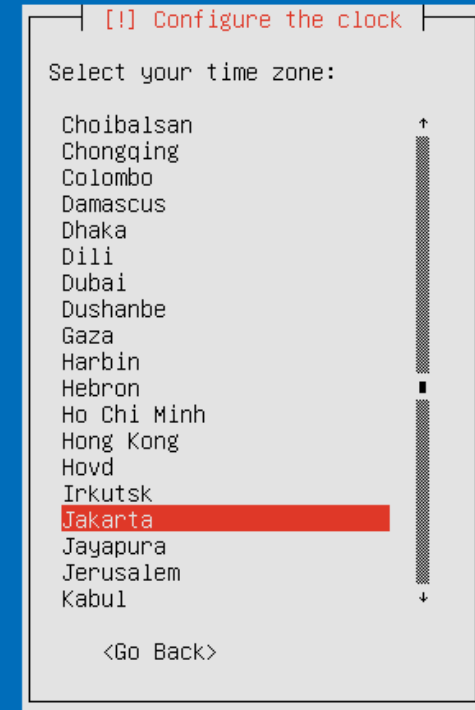
KONFIGURASI BRIKER



KONFIGURASI BRIKER



KONFIGURASI BRIKER



Tab> moves: <Space> selects: <Enter> activates buttons

KONFIGURASI BRIKER

[[!]] Partition disks

The installer can guide you through partitioning a disk (using different standard schemes) or, if you prefer, you can do it manually. With guided partitioning you will still have a chance later to review and customise the results.

If you choose guided partitioning for an entire disk, you will next be asked which disk should be used.

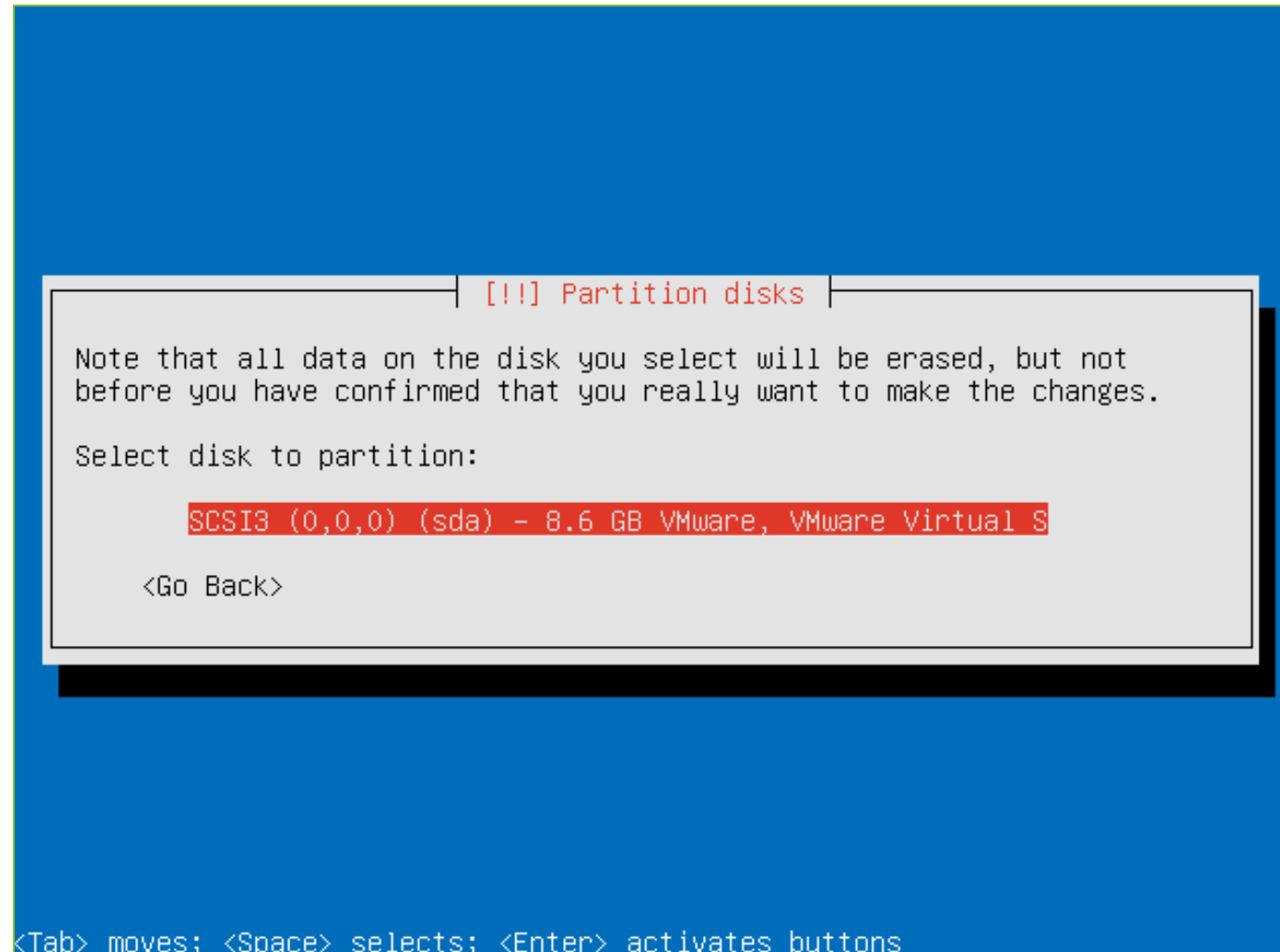
Partitioning method:

- Guided - use entire disk
- Guided - use entire disk and set up LVM
- Guided - use entire disk and set up encrypted LVM
- Manual

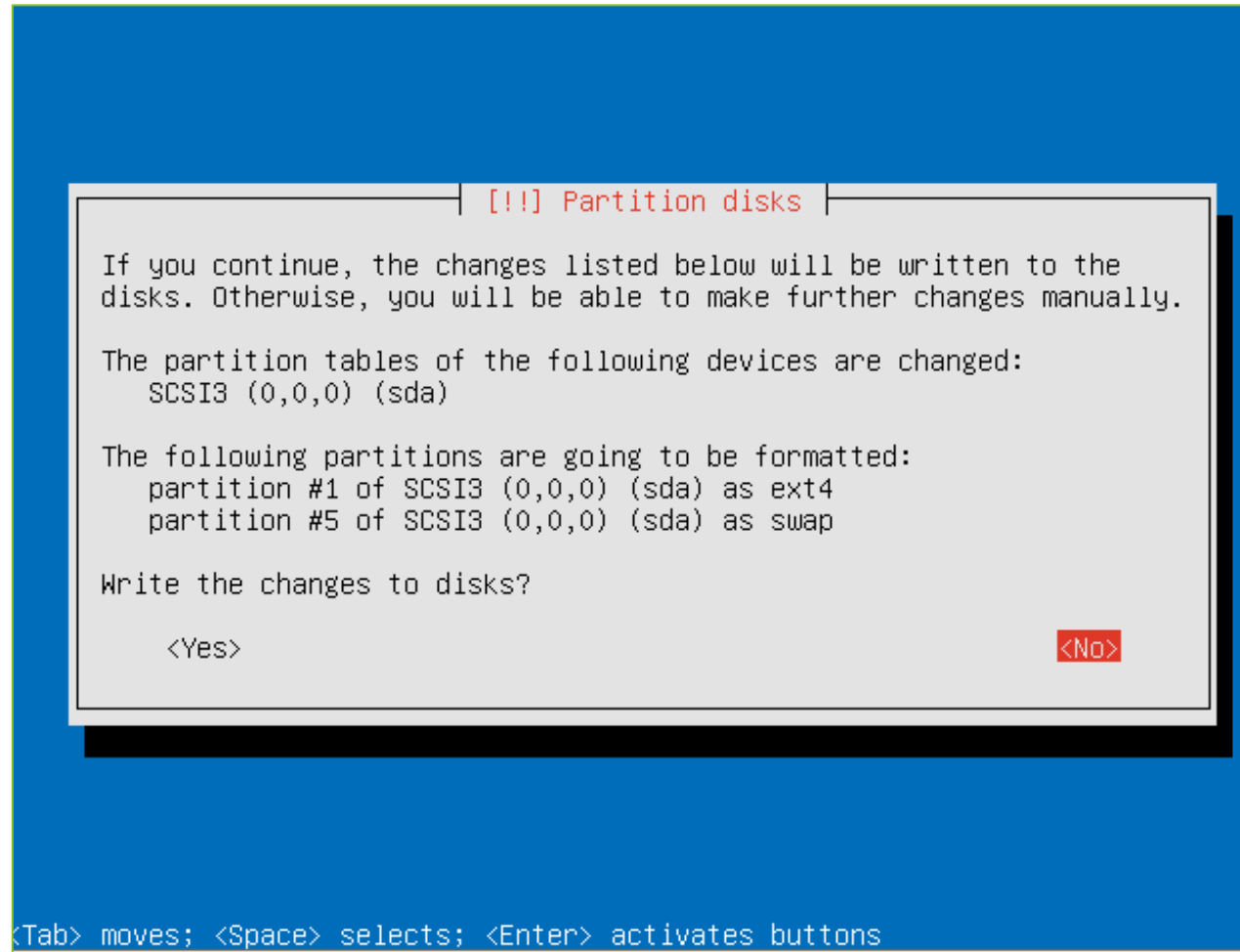
<Go Back>

<Tab> moves; <Space> selects; <Enter> activates buttons

KONFIGURASI BRIKER



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[!!] Partition disks

If you continue, the changes listed below will be written to the disks. Otherwise, you will be able to make further changes manually.

The partition tables of the following devices are changed:
SCSI3 (0,0,0) (sda)

The following partitions are going to be formatted:
partition #1 of SCSI3 (0,0,0) (sda) as ext4
partition #5 of SCSI3 (0,0,0) (sda) as swap

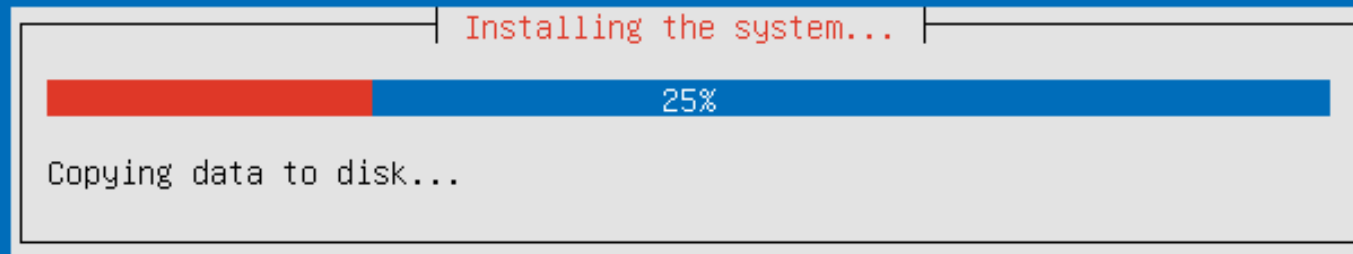
Write the changes to disks?

<Yes>

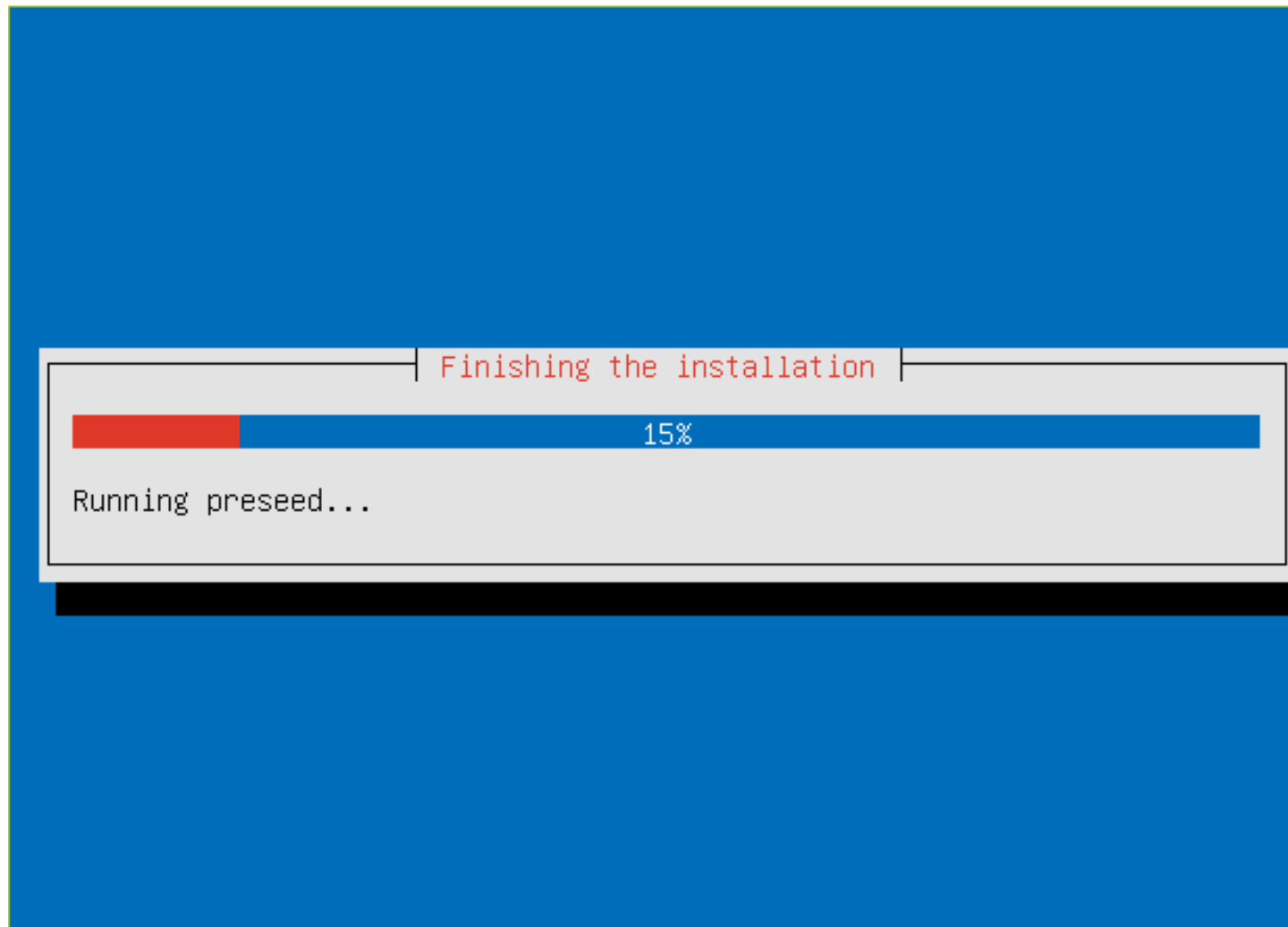
<No>

<Tab> moves; <Space> selects; <Enter> activates buttons

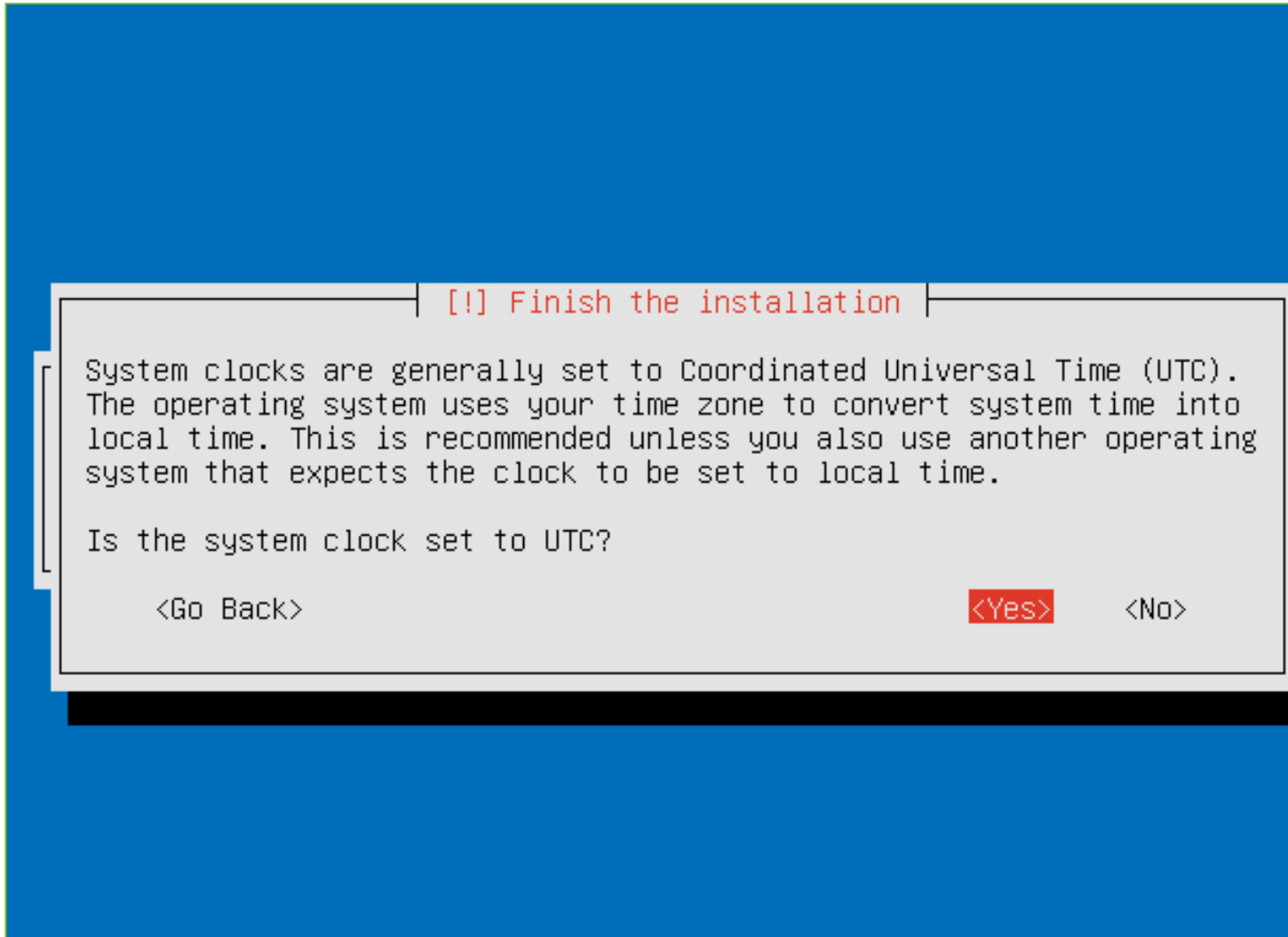
KONFIGURASI BRIKER



KONFIGURASI BRIKER



KONFIGURASI BRIKER



KONFIGURASI BRIKER

```
[ 1.278322] sd 2:0:0:0: [sda] Assuming drive cache: write through
```

[illegible]

KONFIGURASI BRIKER

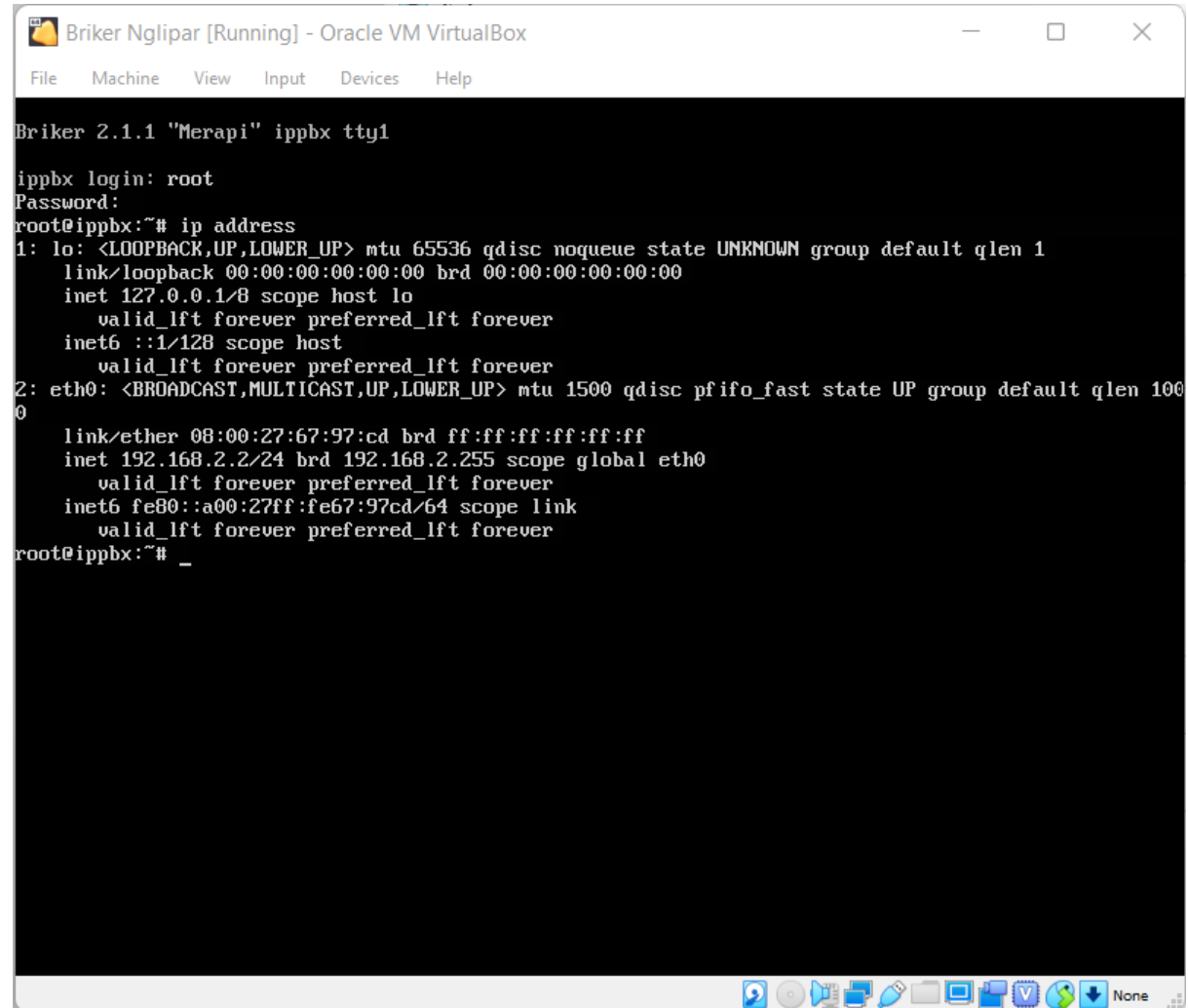
```
Briker 2.1.1 "Merapi" ippbx tty1
```

```
ippbx login:
```

KONFIGURASI BRIKER

```
root@ippbx:~#
```

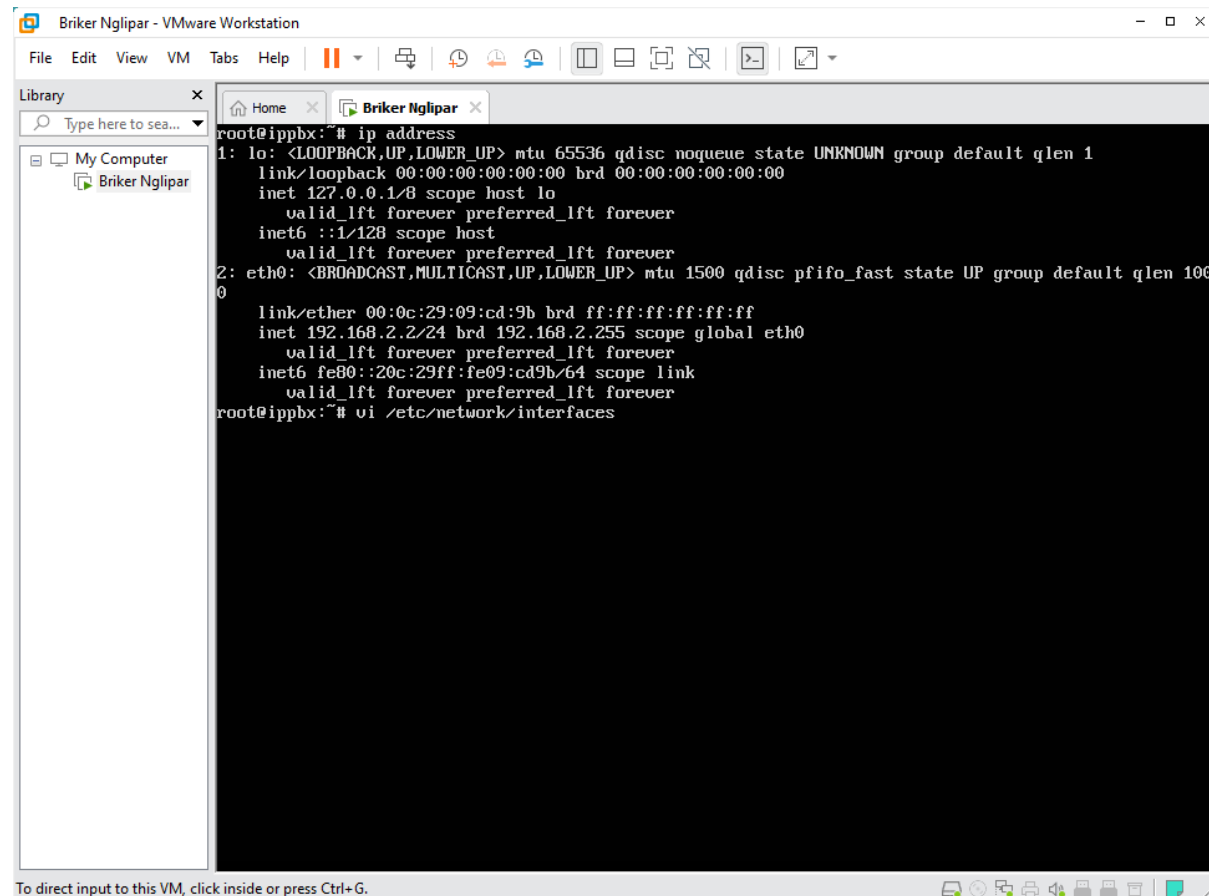

KONFIGURASI BRIKER



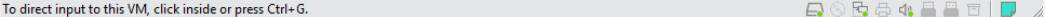
```
Brier 2.1.1 "Merapi" ippbx tty1

ippbx login: root
Password:
root@ippbx:~# ip address
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:67:97:cd brd ff:ff:ff:ff:ff:ff
    inet 192.168.2.2/24 brd 192.168.2.255 scope global eth0
        valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fe67:97cd/64 scope link
        valid_lft forever preferred_lft forever
root@ippbx:~# _
```

KONFIGURASI BRIKER



```
root@ippbx:~# ip address
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 00:0c:29:09:cd:9b brd ff:ff:ff:ff:ff:ff
    inet 192.168.2.2/24 brd 192.168.2.255 scope global eth0
        valid_lft forever preferred_lft forever
    inet6 fe80::20c:29ff:fe09:cd9b/64 scope link
        valid_lft forever preferred_lft forever
root@ippbx:~# vi /etc/network/interfaces
```



To direct input to this VM, click inside or press Ctrl+G.

KONFIGURASI BRIKER

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```
Command Prompt
Subnet Mask . . . . . : 255.255.255.0
Default Gateway . . . . . :

Wireless LAN adapter Wi-Fi:

    Connection-specific DNS Suffix  . : 
    Link-local IPv6 Address . . . . . : fe80::25f5:44f6:e7eb:9342%13
    IPv4 Address. . . . . : 192.168.0.109
    Subnet Mask . . . . . : 255.255.255.0
    Default Gateway . . . . . : 192.168.0.1

Ethernet adapter Bluetooth Network Connection:

    Media State . . . . . : Media disconnected
    Connection-specific DNS Suffix  . : 

C:\Users\Acer>ping 192.168.0.23

Pinging 192.168.0.23 with 32 bytes of data:
Reply from 192.168.0.23: bytes=32 time<1ms TTL=64
Reply from 192.168.0.23: bytes=32 time<1ms TTL=64
Reply from 192.168.0.23: bytes=32 time<1ms TTL=64
Reply from 192.168.0.23: bytes=32 time<1ms TTL=64

Ping statistics for 192.168.0.23:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\Acer>
```

KONFIGURASI BRIKER



KONFIGURASI BRIKER

Briker 2.1.1 "Merapi"



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Briker Core © 2008 PT. Infotech Media Nusantara

 IPPBX Login

Username

Password

Login

KONFIGURASI BRIKER

Briker 2.1.1 "Merapi"



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Logged in: administrator

Status: Administrator

- [Home](#)
- [My Account](#)
- [Preferences](#)
- [Administration](#)
- [Logout](#)

Welcome to Briker

[About Briker](#) [Changelog](#) [F.A.Q](#) [License](#)

Briker 2.1.1 "Merapi"

Release date: 190622

Firmware: 210180622001

Briker is an IPPBX software, a softswitch.

Briker will automatically convert your computer into a powerfull PBX machine with IP communication support built-in.

For supports and informations feel free to visit <https://www.briker.org>

Development HQ:

PT. Infotech Media Nusantara
<http://www.itmn.co.id>

KONFIGURASI BRIKER

Browser tabs: Briker, briker DB Error: connect failed - Penelusuran Google, Download_Old_Builds_6_0 - Oracle VM VirtualBox, IPPBX error dan beberapa ekstension tdk bisa diinstall, [FATAL] DB Error: connect failed - General Help, Internet Download Manager: General questions

URL: https://192.168.0.145/?mit=fbc21ab9eed358707a6037658e7c9ba5&miu=admin

Briker 2.1.1 "Merapi"

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IPPBX Administration | Powered by FreePBX 2.4

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Inbound Call Control

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Ring Groups

Time Conditions

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DISA

Misc Applications

Misc Destinations

Music on Hold

PIN Sets

Paging and Intercom

Parking Lot

System Recordings

IPPBX Status

IPPBX Notices

No new notifications show all

IPPBX Statistics

Total active calls	0
Internal calls	0
External calls	0
Total active channels	0
IPPBX Connections	
IP Trunks Online	0

Uptime

System Uptime: 7 minutes
IPPBX Server Uptime: 6 minutes
Last Reload: 6 minutes

System Statistics

Processor	
Load Average	0.06
CPU	0%
Memory	
Mem Memory	63%
Swap	0%
Disks	
/dev	0%
/run	0%
	29%
/sys/fs/cgroup	0%
/run/lock	0%
/run/shm	0%
/run/user	0%
Networks	
eth0 receive	0.00 KB/s
eth0 transmit	0.00 KB/s

Server Status

IPPBX Server	OK
Database Server	OK
Web Server	OK
Remote Shell Server	OK

KONFIGURASI BRIKER

Briker 2.1.1 "Merapi"



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IPPBX Administration | Powered by FreePBX 2.4

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- Day/Night Control
- Follow Me
- IVR
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- Ring Groups
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- DISA
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- Misc Destinations
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Add an Extension

Please select your Device below then click Submit

Device

Device

Submit

[Add Extension](#)

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Add SIP Extension

Add Extension

User Extension

Display Name

CID Num Alias

SIP Alias

Extension Options

Direct DID

DID Alert Info

Music on Hold

Outbound CID

Ring Time

Call Waiting

Emergency CID

Device Options

This device uses sip technology.

calllimit

calltimer

accountcode

secret

dtmfmode

deny

permit

context

disallow

allow

Add Extension

KONFIGURASI BRIKER

Fax Handling

Fax Extension

Fax Email

Fax Detection Type

Pause after answer

Privacy

Privacy Manager

Device Auto Provisioning

Status

MAC Address:

Recording Options

Record Incoming

Record Outgoing

Voicemail & Directory

Status

Voicemail Password

Email Address

Pager Email Address

Email Attachment ☐ yes ☒ no

Play CID ☐ yes ☒ no

Play Envelope ☐ yes ☒ no

Delete Vmail ☐ yes ☒ no

VM Options

VM Context

VmX Locator™

KONFIGURASI BRIKER

Briker 2.1.1 "Merapi"

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Add an Extension

Please select your Device below then click Submit

Device

Device

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IPPBX Administration | Powered by FreePBX 2.4

Apply Configuration Changes

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Add an Extension

Please select your Device below then click Submit

Device

Device Generic SIP Device

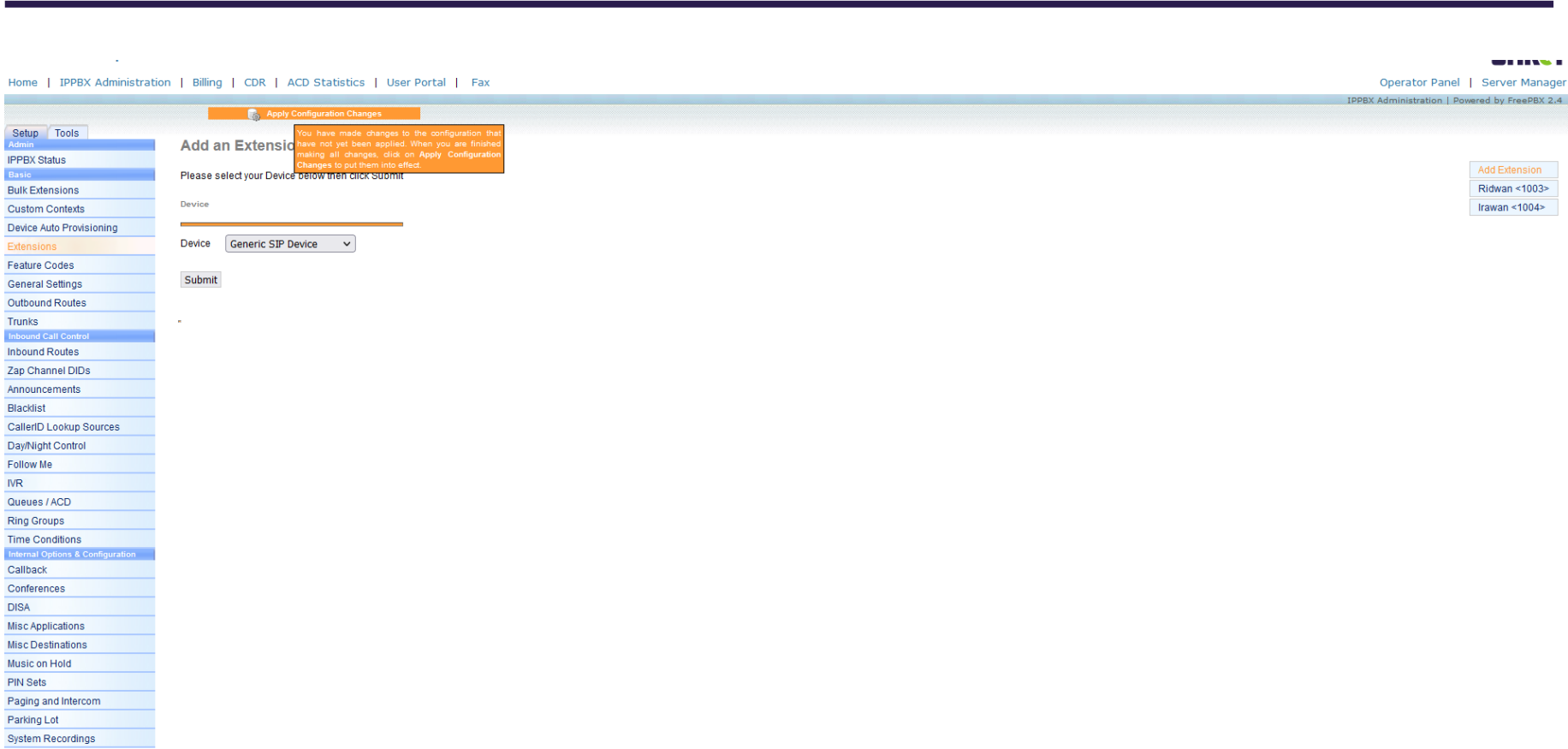
Submit

Add Extension

Ridwan <1003>

Irawan <1004>

KONFIGURASI BRIKER



KONFIGURASI BRIKER

Briker 2.1.1 "Merapi"

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IPPBX Administration | Powered by FreePBX v4.4

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Apply Configuration Changes

Add an Extension

Please select your Device below then click Submit

Device

Device Generic SIP Device

Submit

Add Extension

Ridwan <1003>

Irawan <1004>

Apply Configuration Changes

Reloading will apply all configuration changes made in IPPBX to your PBX engine and make them active.

- Continue with reload
- Cancel reload and go back to editing

KONFIGURASI BRIKER

Briker 2.1.1 "Merapi"

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- Parking Lot
- System Recordings

IPPBX Status

IPPBX Notices

2 extensions/trunks have weak secrets
[show all](#)

IPPBX Statistics

Total active calls	0
Internal calls	0
External calls	0
Total active channels	0
IPPBX Connections	0
IP Phones Online	0

Uptime

System Uptime: 13 minutes
IPPBX Server Uptime: 13 minutes
Last Reload: 10 seconds

System Statistics

Processor	
Load Average	0.00
CPU	0%
Memory	
Mem Memory	65%
Swap	0%
Disks	
/dev	0%
/run	0%
/run	29%
/sys/fs/cgroup	0%
/run/lock	0%
/run/shm	0%
/run/user	0%
Networks	
eth0 receive	0.15 KB/s
eth0 transmit	0.15 KB/s

Server Status

IPPBX Server	OK
Database Server	OK
Web Server	OK
Remote Shell Server	OK



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