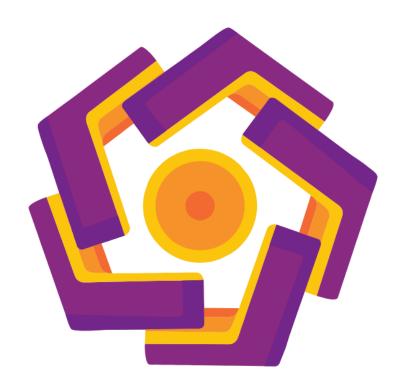
LAPORAN PRAKTIKUM OS SERVER & SISTEM ADMIN

MINGGU KE-2
INSTALLASI SSH SERVER CENTOS



Disusun Oleh:

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PROGRAM STUDI S1 - TEKNIK KOMPUTER
FAKULTAS ILMU KOMPUTER
UNIVERSITAS AMIKOM YOGYAKARTA
2023

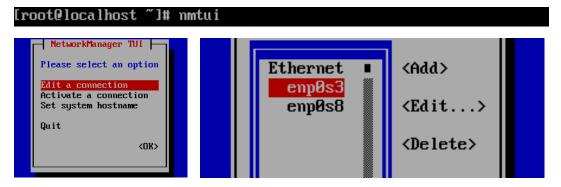
1. Identifikasi terlebih dahulu adapter yang akan digunakan. Disini ada 2 adapter yakni NAT dan Host-only.



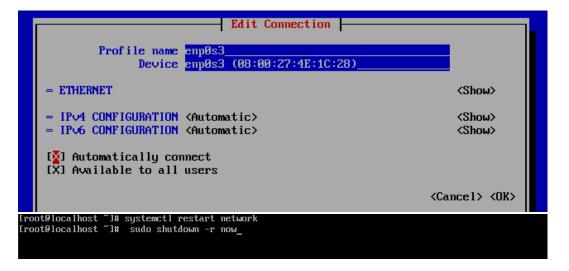
Tertampil juga 2 adapter pada centos yang belum memiliki IP Address.

```
Iroot@localhost ~1# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00 brd 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: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1
000
    link/ether 08:00:27:4e:1c:28 brd ff:ff:ff:ff
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1
000
    link/ether 08:00:27:a5:24:12 brd ff:ff:ff:ff
Iroot@localhost ~1#
```

2. Disini centos pada virtualbox dikoneksikan dengan internet agar dapat menginstall paket yang dibutuhkan nantinya. Pada centos perintah nmtui digunakan untuk mengatur jaringan pada sistem operasi.



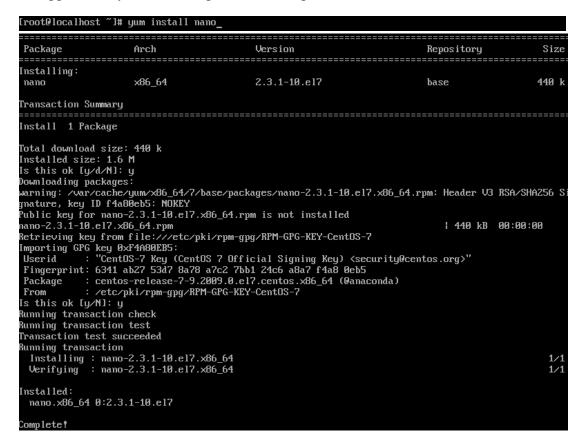
Aktifkan automatically connect pada adapter NAT. kemudian keluar dan lakukan restart network serta reboot.



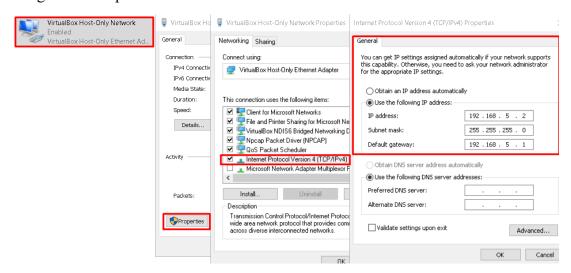
3. Setelah itu dilakukan percobaan ping ke alamat google.com dan hasilnya terhubung makan centos telah terkoneksi dengan internet.

```
[root@localhost ~ ]# ping google.com
PING google.com (74.125.68.138) 56(84) bytes of data.
64 bytes from sc-in-f138.1e100.net (74.125.68.138): icmp_seq=1 ttl=105 time=41.8 ms
64 bytes from sc-in-f138.1e100.net (74.125.68.138): icmp_seq=2 ttl=105 time=39.6 ms
64 bytes from sc-in-f138.1e100.net (74.125.68.138): icmp_seq=3 ttl=105 time=39.9 ms
64 bytes from sc-in-f138.1e100.net (74.125.68.138): icmp_seq=4 ttl=105 time=39.8 ms
```

4. Paket yang diinstall yaitu nano, karena pada perintah-perintah selanjutkan kita akan menggunakannya untuk mengedit file konfigurasi.



5. Tentukan alamat ip yang akan digunakan, pada windows adapter virtualbox host only dengan alamat ip 192.168.5.2.



6. Masuk pada file konfigurasi ip address adapter virtualbox host only dengan perintah nano sesuai dengan perintah pada gambar.

```
[root@localhost ~1# nano /etc/sysconfig/network-scripts/ifcfg-enp@s8
```

Hapus semua isi file kemudian tuliskan konfigurasi dibawah.

```
GNU nano 2.3.1 File: /etc/sysconfig/network-scripts/ifcfg-enp0s8

DEVICE="enp0s8"
BOOTPROTO=static
ONBOOT=yes
IPADDR=192.168.5.5
NETMASK=255.255.255.0
GATEWAY=192.168.5.1
```

7. Kemudian save file konfigurasi dan restart network, setelah itu percobaan untuk ping ke alamat ip virtualbox adapter pada windows.

```
[root@localhost ~]# systemctl restart network
[root@localhost ~]# ping 192.168.5.2
PING 192.168.5.2 (192.168.5.2) 56(84) bytes of data.
64 bytes from 192.168.5.2: icmp_seq=1 ttl=128 time=0.839 ms
64 bytes from 192.168.5.2: icmp_seq=2 ttl=128 time=0.549 ms
64 bytes from 192.168.5.2: icmp_seq=3 ttl=128 time=0.569 ms
64 bytes from 192.168.5.2: icmp_seq=4 ttl=128 time=0.587 ms
^C
--- 192.168.5.2 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3007ms
rtt min/avg/max/mdev = 0.549/0.636/0.839/0.117 ms
[root@localhost ~]#
```

8. Konfigurasikan file sshd_config dengan menghilangkan tanda # untuk mengaktifkan permirroot.

```
[root@localhost
                            "l# nano /etc/ssh/sshd_config
 GNU nano 2.3.1
                                     File: /etc/ssh/sshd_config
                                                                                                     Modified
#AddressFamily any
#ListenAddress 0.0.0.0
#ListenAddress ::
HostKey /etc/ssh/ssh_host_rsa_key
#HostKey /etc/ssh/ssh_host_dsa_key
HostKey /etc/ssh/ssh_host_ecdsa_key
HostKey /etc/ssh/ssh_host_ed25519_key
# Ciphers and keying
#RekeyLimit default none
# Logging
#SyslogFacility AUTH
SyslogFacility AUTHPRIV
#LogLevel INFO
# Authentication:
tLoginGraceTime 2m
PermitRootLogin yes
#StrictModes yes
#MaxAuthTries 6
#MaxSessions 10
```

9. Save file konfigurasi sshd_config kemudian restart sshd serta pastikkan status telah berjalan atau active.

10. Masuk pada cmd windows kemudian ping alamat ip centos yakni 192.158.5.5.

```
Select C:\WINDOWS\system32\cmd.exe

Microsoft Windows [Version 10.0.19045.3324]

(c) Microsoft Corporation. All rights reserved.

C:\Users\RIDHA NURRACHMAT>ping 192.168.5.5

Pinging 192.168.5.5 with 32 bytes of data:
Reply from 192.168.5.5: bytes=32 time<1ms TTL=64
Ping statistics for 192.168.5.5:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

11. Setelah dapat terhubung ping, remote sistem operasi centos menggunakan cmd windows perintah ssh root@(ip centos). Pada gambar ssh remote telah berhasil dan mencoba untuk melihat alamat ip dengan perintah centos dan perintah reboot.

```
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.5.5' (ECDSA) to the list of known hosts.
 oot@192.168.5.5's password:
Last login: Thu Sep 14 02:54:32 2023
[root@localhost ~]# ip a
l: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000 link/ether 08:00:27:4e:1c:28 brd ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global noprefixroute dynamic enp0s3
    valid_lft 85583sec preferred_lft 85583sec inet6 fe80::ad49:d296:abdb:c253/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
 : enp0s8: <BRCADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:a5:24:12 brd ff:ff:ff:ff:ff
    inet 192.168.5.5/24 brd 192.168.5.255 scope global noprefixroute enp0s8
        valid_lft forever preferred_lft foreve
    inet6 fe80::a00:27ff:fea5:2412/64 scope link
valid_lft forever_preferred_lft forever
[root@localhost ~]# reboot
Connection to 192.108.5.5 closed by remote host.
Connection to 192.168.5.5 closed.
```