

10/3/2024

JARINGAN KOMPUTER LANJUT

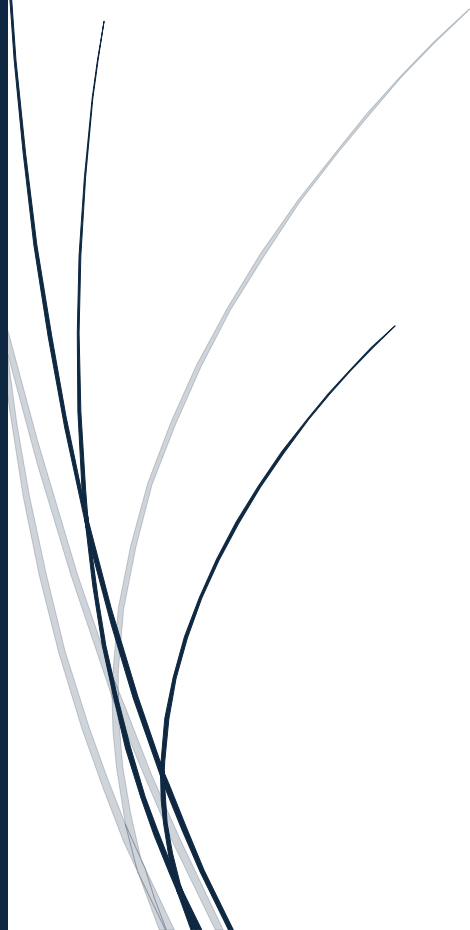
PERTEMUAN V



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KELAS: TI – 23 – PA (LAB 2)



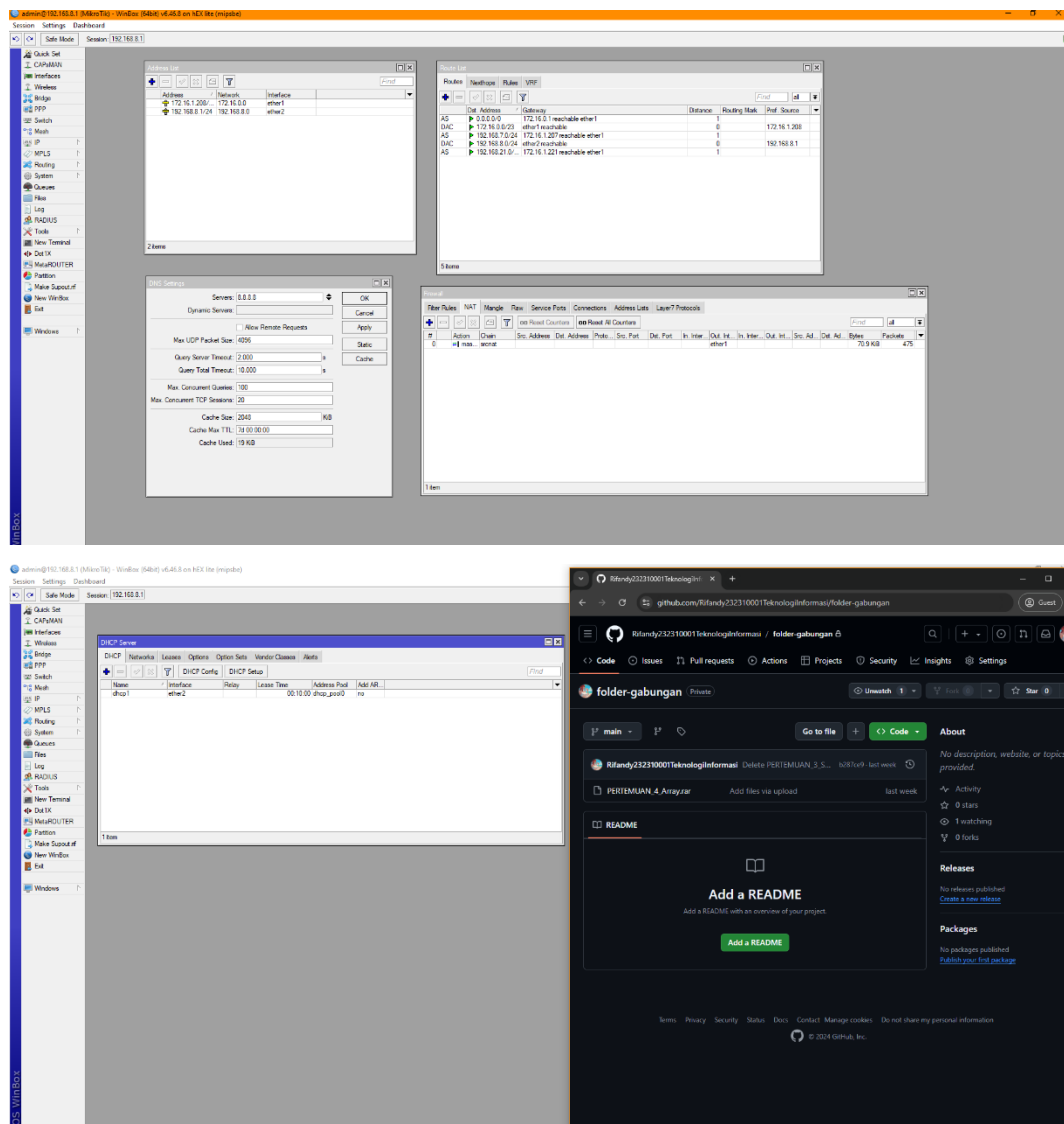
Tugas Pertemuan Ke-5
ROUTING STATIC

PEMBAHASAN

Github:

https://github.com/Rifandy232310001TeknologiInformasi/Jaringan_Komputer_Lanjut-Lab

1. Berikut ini adalah *screenshot* hasil praktikum!



```
Terminal <1>
MMM      MMM      KKK      TTTTTTTTTT      KKK
MMMM     MMMM     KKK      TTTTTTTTTT      KKK
MMM MMMM MMM III  KKK  KKK  RRRRRR  OOOOOO  TTT  III  KKK  KKK
MMM MM  MMM  III  KKKKK  RRR  RRR  OOO  OOO  TTT  III  KKKKK
MMM     MMM  III  KKK  KKK  RRRRRR  OOO  OOO  TTT  III  KKK  KKK
MMM     MMM  III  KKK  KKK  RRR  RRR  OOOOOO  TTT  III  KKK  KKK

MikroTik RouterOS 6.46.8 (c) 1999-2020      http://www.mikrotik.com/

[?]          Gives the list of available commands
command [?]  Gives help on the command and list of arguments

[Tab]        Completes the command/word. If the input is ambiguous,
              a second [Tab] gives possible options

/            Move up to base level
..          Move up one level
/command     Use command at the base level
[admin@MikroTik] > ping 192.168.7.1
  SEQ HOST                                SIZE TTL TIME  STATUS
    0 192.168.7.1                          56  64 0ms
    1 192.168.7.1                          56  64 0ms
    2 192.168.7.1                          56  64 0ms

[admin@MikroTik] > ping 192.168.21.1
  SEQ HOST                                SIZE TTL TIME  STATUS
    0 192.168.21.1                          56  64 0ms
    1 192.168.21.1                          56  64 0ms
    2 192.168.21.1                          56  64 0ms
    3 192.168.21.1                          56  64 0ms
    4 192.168.21.1                          56  64 0ms
    5 192.168.21.1                          56  64 0ms
    6 192.168.21.1                          56  64 0ms
    7 192.168.21.1                          56  64 0ms
    8 192.168.21.1                          56  64 0ms
    9 192.168.21.1                          56  64 0ms
   10 192.168.21.1                          56  64 0ms
   11 192.168.21.1                          56  64 0ms
   12 192.168.21.1                          56  64 0ms
```

```
C:\ Command Prompt
Microsoft Windows [Version 10.0.19045.4894]
(c) Microsoft Corporation. All rights reserved.

C:\Users\User>ping 192.168.7.1

Pinging 192.168.7.1 with 32 bytes of data:
Reply from 192.168.7.1: bytes=32 time<1ms TTL=63
Reply from 192.168.7.1: bytes=32 time<1ms TTL=63
Reply from 192.168.7.1: bytes=32 time<1ms TTL=63
Reply from 192.168.7.1: bytes=32 time<1ms TTL=63

Ping statistics for 192.168.7.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Users\User>ping 192.168.21.1

Pinging 192.168.21.1 with 32 bytes of data:
Reply from 192.168.21.1: bytes=32 time<1ms TTL=63
Reply from 192.168.21.1: bytes=32 time<1ms TTL=63
Reply from 192.168.21.1: bytes=32 time<1ms TTL=63
Reply from 192.168.21.1: bytes=32 time<1ms TTL=63

Ping statistics for 192.168.21.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
```

2. Langkah-langkah melakukan routing static, antara lain:
 - a) Pasang kabel LAN internet dan kabel LAN 2 ke dalam MikroTik, kemudian tunggu hingga MikroTik tersambung dengan komputer,
 - b) Buka *control panel*, kemudian lakukan **obtain** di jaringan ethernet yang sudah terhubung,
 - c) Pastikan untuk melakukan **disable** pada ethernet, lalu lakukan **enable** pada ethernet,
 - d) Buka aplikasi WinBox dan masuk ke dalam jaringan ethernet,
 - e) Pilih menu IP → Address, kemudian masukkan alamat komputer (contoh 172.16.1.208/23 untuk ether1 dan 192.168.8.1/24 untuk ether2),
 - f) Pilih menu IP → Route, kemudian masukkan alamat komputer pada bagian *gateway*,

- g) Pilih menu IP → DNS, kemudian pada bagian *servers* masukkan 8.8.8.8,
- h) Pilih menu IP → Firewall, kemudian pilih menu NAT dan lakukan konfigurasi,
- i) Pilih menu IP → DHCP Server, kemudian klik *DHCP Setup* dan pilih ether2,
- j) Jaringan sudah bisa diakses, dan
- k) Lakukan ping kepada komputer lain melalui *terminal* atau *command prompt*.