

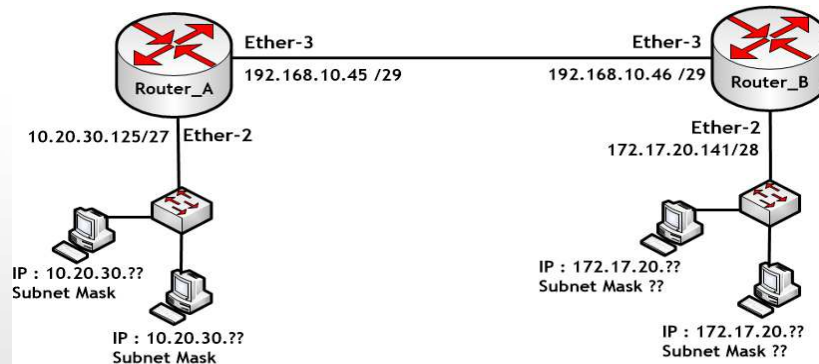
Jaringan Komputer 2 - STI4433 || 3 SKS



Review Pembahasan Materi Routing 2-3 Router



Latihan contoh kasus routing Static



Review Pembahasan Materi Routing

Router_A

Ether-2: 10.20.30.125/27

Ether-3: 192.168.10.45 /29

Host: IP : 10.20.30.??
Subnet Mask

Host: IP : 10.20.30.??
Subnet Mask

Maximum Bit IP Ver.4 => 32 Diket Prefix Subnet /29 =>
Network Address
Maka $32 - 29 = 3$ $2^3 = 8$ Desimal Subnet Mask $256 - 8 = 248$

Sehingga [Router_A]:
IP Network Ether-3 **192.168.10.40**
IP Host **192.168.10.41 - 192.168.10.46**
IP Broadcast = **192.168.10.47**

192.168.10. 0
192.168.10. 8
192.168.10. 16
192.168.10. 24
192.168.10. 32
192.168.10.40
192.168.10. 48
192.168.10. 56

Maximum Bit IP Ver.4 => 32 Diket Prefix Subnet /27 =>
Network Address
Maka $32 - 27 = 5$ $2^5 = 32$ Desimal Subnet Mask $256 - 32 = 224$

Sehingga [Router_A]:
IP Network Ether-2 **10.20.30.96**
IP Host **10.20.30.97 - 10.20.30.126**
IP Broadcast = **10.20.30.127**

10.20.30. 0
10.20.30. 32
10.20.30. 64
10.20.30. 96
10.20.30. 128
10.20.30. 160

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Review Pembahasan Materi Routing Sesi 2/3

Maximum BIT IP Ver.4 => 32 Diket Prefix Subnet /28 =>
Network Address
Maka $32 - 28 = 4$ $2^4 = 16$
Desimal Subnet Mask $256 - 16 = 240$

172.17.20. 0
172.17.20. 16
172.17.20. 32
172.17.20. 48
172.17.20. 64
172.17.20. 80
172.17.20. 96
172.17.20. 112
172.17.20. 128
172.17.20. 144

Sehingga [Router_B]:
IP Network Ether-2 **172.17.20.128**
IP Host **172.17.20.129 - 172.17.20.142**
IP Broadcast = **172.17.20.143**

Router_B

Ether-2: 172.17.20.141/28

Ether-3: 192.168.10.46 /29

Host: IP : 172.17.20.??
Subnet Mask ??

Host: IP : 172.17.20.??
Subnet Mask ??

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Review Pembahasan Materi Routing Sesi 2/3

Router_A: Ether-3 (192.168.10.45 /29), Ether-2 (10.20.30.125/27)

Router_B: Ether-3 (192.168.10.46 /29), Ether-2 (172.17.20.141/28)

PCs under Router_A: IP : 10.20.30.??, Subnet Mask

PCs under Router_B: IP : 172.17.20.??, Subnet Mask ??

```
#Setting IP Route - Router-A menuju Router_B
[indra@Router_A]> ip route add dst-address 172.17.20.128/27 gateway=192.168.10.46

#Setting IP Route - Router-B menuju Router_A
[indra@Router_A]> ip route add dst-address 10.20.30.96/27 gateway=192.168.10.45
```

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Review / Pembahasan Soal Latihan Routing

Soal Kasus Topologi [3 Router] Static Routing

Router-A: Ether1 (172.20.20.dd*/29), Ether4 (10.10.mm.7/28)

Router-B: Ether1 (172.20.20.dd*/29), Ether2 (172.30.dd.62/29), Ether4 (10.20.mm.33/29)

Router-C: Ether2 (172.30.dd.7/29), Ether4 (10.30.mm.7/27)

PCs: IP Address : 10.10.mm.78/28, IP Address : 10.20.mm.38/29, IP Address : 10.30.mm.126/27

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Soal Kasus Topologi [3 Router] Router A & B

Manual .. !!
10.10.10.0
10.10.10.16
10.10.10.32
10.10.10.48
10.10.10.64
10.10.10.80

Menentukan IP Net [Cara Lain] Jika diketahui suatu IP
 Ex : 10.10.10.78 /28 bit host = 4 [32-28] 2^4 Jumlah IP = 16
 Maka IP Net = [IP diketahui / Jumlah IP] ==> 78/16 = 4.875 pembulatan = 4 , maka : $4 * 16 = 64$

Sehingga IP Net adalah = 10.10.10.64

IP Host [16-2] = 10.10.10.65 - 10.10.10.78 [range IP]
 IP Broadcast = [IP Net + 15] 10.10.10.79

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Soal Kasus Topologi [3 Router] Router A & B

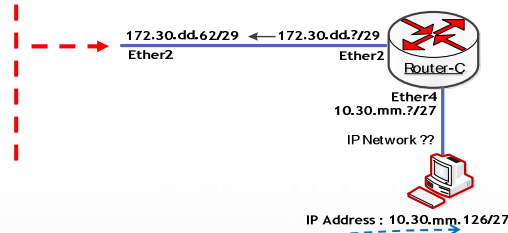
Menentukan IP Net [Cara Lain] Jika diketahui suatu IP
 Ex : 10.20.10.38 / 29 bit host = 3 [32-29] 2^3 Jumlah IP = 8
 Maka IP Net = [IP diketahui / Jumlah IP] ==> 38/8 = 4.75 pembulatan = 4 , maka : $4 * 8 = 32$

Sehingga IP Net adalah = 10.20.10.32

IP Host [8-2] = 10.20.10.33 - 10.20.10.38 [range IP]
 IP Broadcast = [IP Net + 7] 10.10.10.39

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Soal Kasus Topologi [3 Router] Router C [lanjutan ...]



Menentukan IP Net [Cara Lain] Jika diketahui suatu IP

Ex : 10.30.10.126 / 27 bit host = 5 [32-27] 2^5 Jumlah IP = 32

Maka IP Net = [IP diketahui / Jumlah IP] ==> 126/32 = 3.9375 pembulatan = 3 , maka : $3 * 32 = 96$

Sehingga IP Net adalah = 10.30.10.96

IP Host [32-2] = 10.30.10.97 - 10.30.10.126 [range IP]

IP Broadcast = [IP Net + 31] 10.30.10.127

Contoh Kasus Topologi [3 Router] A,B & C

