TECHNICAL REPORT

PRAKTIKUM JARINGAN KOMPUTER

MODUL 8

Disusun Oleh :

TGL. PRAKTIKUM	: 22 April 2021
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LABORATORIUM COMMON COMPUTING

JURUSAN TEKNIK INFORMATIKA

FAKULTAS TEKNIK

UNIVERSITAS TRUNOJOYO MADURA

2020

1.

Diberikan:	
Host IP Address:	192.168.200.139
Original Subnet Mask:	255.255.255.0
New Subnet Mask:	255.255.255.224

Carilah:	
Number of Subnets Bits	3
Number of Subnets Created	8
Number of Host Bits per Subnet	5
Number of Hosts per Subnet	30
Network Address of this Subnet	192.168.200.128
IPv4 Address of First Host on this Subnet	192.168.200.129
IPv4 Address of Last Host on this Subnet	192.168.200.158
IPv4 Broadcast Address on this Subnet	192.168.200.159

2.

Diberikan:	
Host IP Address:	10.101.99.228
Original Subnet Mask:	255.0.0.0
New Subnet Mask:	255.255.128.0

Carilah:	
Number of Subnets Bits	9
Number of Subnets Created	512
Number of Host Bits per Subnet	15
Number of Hosts per Subnet	32766
Network Address of this Subnet	10.101.0.0
IPv4 Address of First Host on this Subnet	10.101.0.1
IPv4 Address of Last Host on this Subnet	10.101.127.254
IPv4 Broadcast Address on this Subnet	10.101.127.255

3.

Diberikan:	
Host IP Address:	172.22.32.12
Original Subnet Mask:	255.255.0.0
New Subnet Mask:	255.255.224.0

Carilah:	
Number of Subnets Bits	3
Number of Subnets Created	8
Number of Host Bits per Subnet	13
Number of Hosts per Subnet	8190
Network Address of this Subnet	172.22.32.0
IPv4 Address of First Host on this Subnet	172.22.32.1
IPv4 Address of Last Host on this Subnet	172.22.63.254
IPv4 Broadcast Address on this Subnet	172.22.63.255

4.

Diberikan:	
Host IP Address:	192.168.1.245
Original Subnet Mask:	255.255.255.0
New Subnet Mask:	255.255.255.252

Carilah:	
Number of Subnets Bits	6
Number of Subnets Created	64
Number of Host Bits per Subnet	2
Number of Hosts per Subnet	2
Network Address of this Subnet	192.168.1.244
IPv4 Address of First Host on this Subnet	192.168.1.245
IPv4 Address of Last Host on this Subnet	192.168.1.246
IPv4 Broadcast Address on this Subnet	192.168.1.247

5.

Diberikan:	
Host IP Address:	128.107.0.55
Original Subnet Mask:	255.255.0.0
New Subnet Mask:	255.255.255.0

Carilah:	
Number of Subnets Bits	8
Number of Subnets Created	256
Number of Host Bits per Subnet	8
Number of Hosts per Subnet	254
Network Address of this Subnet	128.107.0.0
IPv4 Address of First Host on this Subnet	128.107.0.1
IPv4 Address of Last Host on this Subnet	128.107.0.254
IPv4 Broadcast Address on this Subnet	128.107.0.255

6.

Diberikan:	
Host IP Address:	192.135.250.180
Original Subnet Mask:	255.255.255.0
New Subnet Mask:	255.255.224.248

Carilah:	
Number of Subnets Bits	5
Number of Subnets Created	32
Number of Host Bits per Subnet	3
Number of Hosts per Subnet	6
Network Address of this Subnet	192.135.250.176
IPv4 Address of First Host on this Subnet	192.135.250.177
IPv4 Address of Last Host on this Subnet	192.135.250.182
IPv4 Broadcast Address on this Subnet	192.135.250.183

A. Soal dalam modul

1. Mengapa subnet mask sangat penting pada saat menganalisis suatu IPv4 address?

Jawaban :

1. Karena subnet mask berfungsi untuk menentukan segala sesuatu terkait alamat jaringan, jumlah bit host, jumlah host dan alamat broadcast. Dengan adanya sebunet mask kita dapat membedakan antara Network ID dengan Host ID dan menentukan alamat tujuan paket data apakah local atau remote.