**TECHNICAL REPORT**

**PRAKTIKUM JARINGAN KOMPUTER**

**MODUL 8**



**Disusun Oleh :**

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| TGL. PRAKTIKUM : 22 April 2021  NAMA : Achmad Farid Alfa Waid  NIM : 190411100073  KELOMPOK : 1  DOSEN : Yoga Dwitya Pramudita S.Kom.  ASPRAK : Rizal Abul Fata |



**LABORATORIUM COMMON COMPUTING**

**JURUSAN TEKNIK INFORMATIKA**

**FAKULTAS TEKNIK**

**UNIVERSITAS TRUNOJOYO MADURA**

**2020**

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

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| **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 |

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

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| **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 |

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

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| **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 |

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

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| **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 |

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

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| **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 |

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

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| **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 |

1. **Soal dalam modul**
2. 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.