**Praktikum Internet dan Aplikasinya**

**Tugas 11: Web Server**

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**PROGRAM STUDI INFORMATIKA**

**FAKULTAS SAINS DAN TEKNOLOGI**

**UNIVERSITAS SANATA DHARMA**

**YOGYAKARTA**

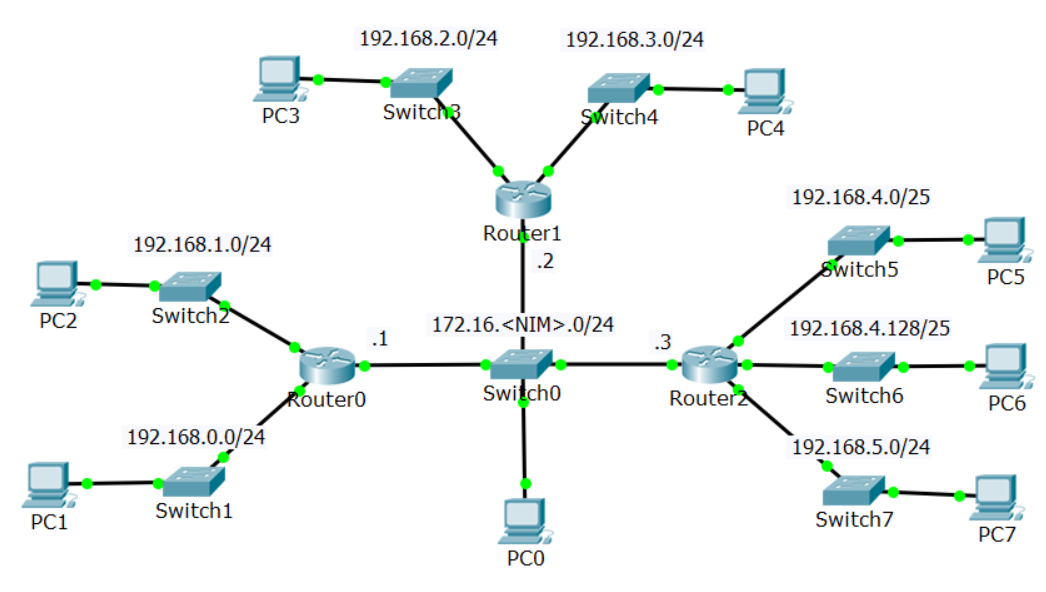
**2022**

**Tujuan**

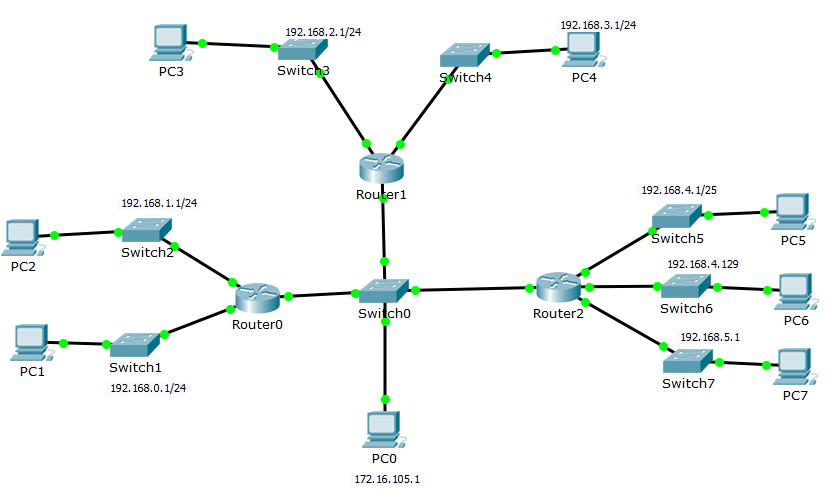
Mahasiswa dapat mengetahui cara kerja packet forwarding dan tabel routing serta men-setup statik routing untuk topologi sederhana

**TUGAS**

1. Buat topologi seperti dibawah ini
2. Pilih Router Tipe Generik ROUTER-PT-EMPTY (yang paling kanan). Matikan dulu Router, tambahkan 5 modul Ethernet PT-ROUTER-NM-1CFE (No. 3 dari atas).
3. Buat / lengkapi rancangan IP (tuliskan label pada topologi), kemudian implementasikan. Jangan lupa memasang default gateway pada masing-masing PC.
4. Pastikan dari tiap-tiap PC bisa terkoneksi dengan Router (ping dari PC ke Router)
5. Rancangan Tabel routing dan tuangkan dalam bentuk tabel seperti dibawah.
6. Implementasikan Routing Static pada masing-masing router berdasarkan tabel yang anda buat
7. Pastikan antar PC di seluruh topologi terkoneksi dengan perintah ping

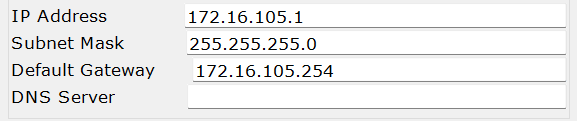
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**A. Screenshot Topologi (lengkapi dengan ip setiap devicenya)**

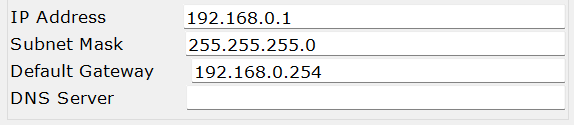
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**B. Screenshot Konfigurasi IP Address**

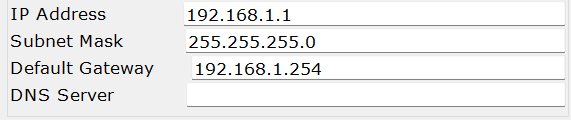
* **PC0**

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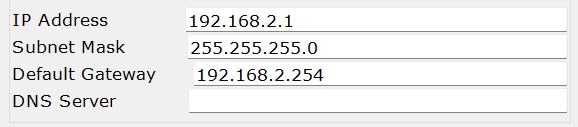
* **PC1**

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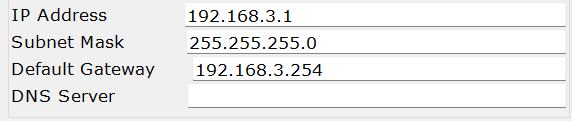
* **PC2**

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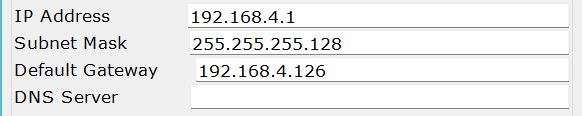
* **PC3**

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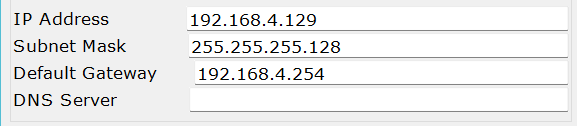
* **PC4**

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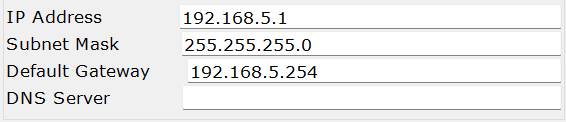
* **PC5**

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* **PC6**

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* **PC7**

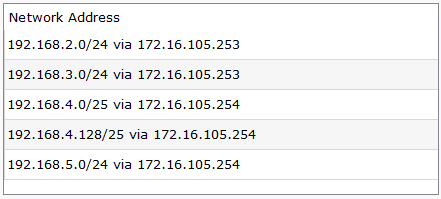
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**C. Tabel Routing Static**

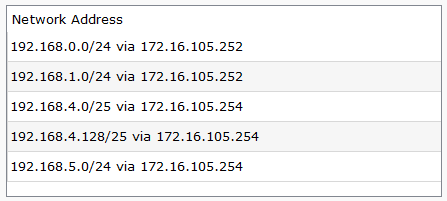
|  |  |  |
| --- | --- | --- |
| **Device** | **Network / Masking** | **Next Hop** |
| **Router 0** | 192.168.2.0/255.255.255.0 | 172.16.105.253 |
|  | 192.168.3.0/255.255.255.0 | 172.16.105.253 |
|  | 192.168.4.0/255.255.255.128 | 172.16.105.254 |
|  | 192.168.4.128/255.255.255.128 | 172.16.105.254 |
|  | 192.168.5.0/255.255.255.0 | 172.16.105.254 |
| **Router 1** | 192.168.0.0/255.255.255.0 | 172.16.105.252 |
|  | 192.168.1.0/255.255.255.0 | 172.16.105.252 |
|  | 192.168.4.0/255.255.255.128 | 172.16.105.254 |
|  | 192.168.4.128/255.255.255.128 | 172.16.105.254 |
|  | 192.168.5.0/255.255.255.0 | 172.16.105.254 |
| **Router 2** | 192.168.0.0/255.255.255.0 | 172.16.105.252 |
|  | 192.168.1.0/255.255.255.0 | 172.16.105.252 |
|  | 192.168.2.0/255.255.255.0 | 172.16.105.253 |
|  | 192.168.3.0/255.255.255.0 | 172.16.105.253 |

**D. Screenshot konfigurasi Static Routing**

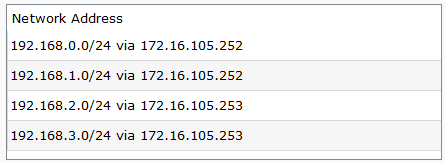
* **ROUTER 0**

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* **ROUTER 1**

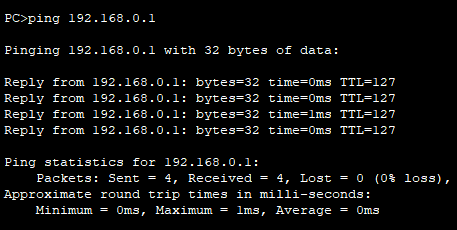
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* **ROUTER 2**

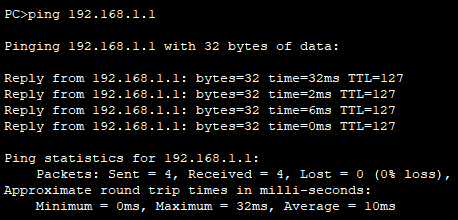
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**E. Screenshot bukti ping bahwa semua pc saling terhubung**

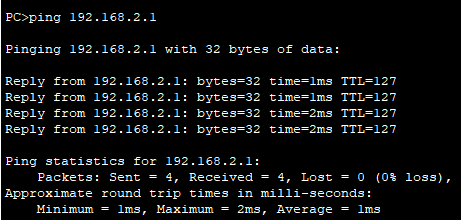
* **PC0 KE PC1**

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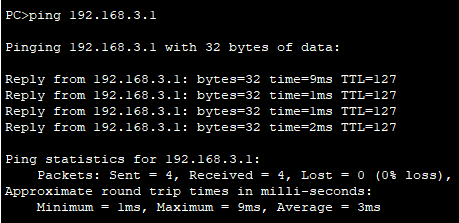
* **PC0 KE PC2**

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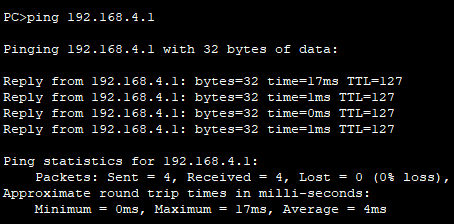
* **PC0 KE PC3**

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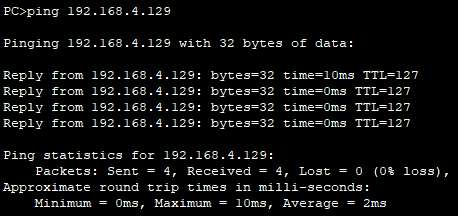
* **PC0 KE PC4**

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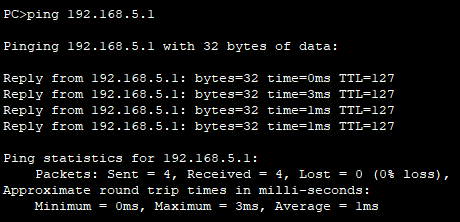
* **PC0 KE PC5**

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* **PC0 KE PC6**

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* **PC0 KE PC7**

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