**Turdalin Nurassyl LAB6**

**11.7.5**

1. 4 subnets for each switches, and 1 for routers to connect each other
2. 11100000 – our last octet. It means there 2^3 subnets and 2^5 -2 = 30 hosts
3. Subnet 255.255.255.224

|  |  |  |  |
| --- | --- | --- | --- |
| Subnet address | First | Last | Broadcast |
| 192.168.100.0 | 192.168.100.1 | 192.168.100.30 | 192.168.100.31 |
| 192.168.100.32 | 192.168.100.33 | 192.168.100.62 | 192.168.100.63 |
| 192.168.100.64 | 192.168.100.65 | 192.168.100.94 | 192.168.100.95 |
| 192.168.100.96 | 192.168.100.97 | 192.168.100.126 | 192.168.100.127 |
| 192.168.100.128 | 192.168.100.129 | 192.168.100.158 | 192.168.100.159 |
| 192.168.100.160 | 192.168.100.161 | 192.168.100.190 | 192.168.100.191 |
| 192.168.100.192 | 192.168.100.193 | 192.168.100.222 | 192.168.100.223 |
| 192.168.100.224 | 192.168.100.225 | 192.168.100.254 | 192.168.100.255 |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Device | Interface | IP address | Subnet Mask | DefGat |
| R1 | G0/0 | 192.168.100.1 | 255.255.255.224 | N/A |
| G0/1 | 192.168.100.33 |
| S0/0/0 | 192.168.100.129 |
| R2 | G0/0 | 192.168.100.65 |
| G0/0 | 192.168.100.97 |
| S0/0/0 | 192.168.100.158 |
| S1 | VLAN 1 | 192.168.100.2 | 192.168.100.1 |
| S2 | VLAN 1 | 192.168.100.34 | 192.168.100.33 |
| S3 | VLAN 1 | 192.168.100.66 | 192.168.100.65 |
| S4 | VLAN 1 | 192.168.100.98 | 192.168.100.97 |
| PC1 | NIC | 192.168.100.30 | 192.168.100.1 |
| PC2 | NIC | 192.168.100.62 | 192.168.100.33 |
| PC3 | NIC | 192.168.100.94 | 192.168.100.65 |
| PC4 | NIC | 192.168.100.126 | 192.168.100.97 |

1. 