192.168.100.0/24

25 hosts at least – 2^5 – 2 = 30 hosts, subnet /27, 2^3 = 8 subnets

192.168.100.0

192.168.100.32

192.168.100.64

192.168.100.96

192.168.100.128

255.255.255.224

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Subnet Number** |  | **Subnet Address** | **First Usable Host Address** | **Second Usable Host Address** | **Last Usable Host Address** | **Broadcast Address** |
| 0 | R1 G0/0 | 192.168.100.0 | 192.168.100.1 (R1 G0/0) | 192.168.100.2  (S1) | 192.168.100.30  (PC1) | 192.168.100.31 |
| **1** | R1 G0/1 | 192.168.100.32 | 192.168.100.33 (R1 G0/1) | 192.168.100.34  (S2) | 192.168.100.62  (PC2) | 192.168.100.63 |
| **2** | R2 G0/0 | 192.168.100.64 | 192.168.100.65 (R2 G0/0) | 192.168.100.66  (S3) | 192.168.100.94  (PC3) | 192.168.100.95 |
| **3** | R2 G0/1 | 192.168.100.96 | 192.168.100.97 (R2 G0/1) | 192.168.100.98  (S4) | 192.168.100.126  (PC4) | 192.168.100.127 |
| **4** | WAN | 192.168.100.128 | 192.168.100.129 (R1 S0/0/0) | 192.168.100.130 | 192.168.100.158  (R2 S0/0/0) | 192.168.100.159 |
| **5** |  | 192.168.100.160 | 192.168.100.161 | 192.168.100.162 | 192.168.100.190 | 192.168.100.191 |
| **6** |  | 192.168.100.192 | 192.168.100.193 | 192.168.100.194 | 192.168.100.225 | 192.168.100.223 |
| **7** |  | 192.168.100.224 | 192.168.100.225 | 192.168.100.226 | 192.168.100.254 | 192.168.100.255 |
| **8** |  |  |  |  |  |  |
| **9** |  |  |  |  |  |  |
| **10** |  |  |  |  |  |  |