|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **4th Octet** | **CIDR** | **/25** | **/26** | **/27** | **/28** | **/29** | **/30** | **/31** | **/32** |
| **Subnets** | 131,072 | 262,144 | 524,288 | 1,048,576 | 2,097,152 | 4,194,304 | - | - |
| **Hosts Per Subnet** | 126 | 62 | 30 | 14 | 6 | 2 | - | - |
| **Subnet Mask** | 255.255.255.128 | 255.255.255.192 | 255.255.255.224 | 255.255.255.240 | 255.255.255.248 | 255.255.255.252 | 255.255.255.254 | 255.255.255.255 |
| **3rd Octet** | **CIDR** | **/17** | **/18** | **/19** | **/20** | **/21** | **/22** | **/23** | **/24** |
| **Subnets** | 512 | 1024 | 2,048 | 4,096 | 8,192 | 16,384 | 32,768 | 65,536 |
| **Hosts Per Subnet** | 32766 | 16382 | 8190 | 4094 | 2046 | 1022 | 510 | 254 |
| **Subnet Mask** | 255.255.128.0 | 255.255.192.0 | 255.255.224.0 | 255.255.240.0 | 255.255.248.0 | 255.255.252.0 | 255.255.254.0 | 255.255.255.0 |
| **2nd Octet** | **CIDR** | **/9** | **/10** | **/11** | **/12** | **/13** | **/14** | **/15** | **/16** |
| **Subnets** | 2 | 4 | 8 | 16 | 32 | 64 | 128 | 256 |
| **Hosts Per Subnet** | 8,388,606 | 4,194,302 | 2,097,150 | 1,048,574 | 524,286 | 262,142 | 131,070 | 65,534 |
| **Subnet Mask** | 255.128.0.0 | 255.192.0.0 | 255.224.0.0 | 255.240.0.0 | 255.248.0.0 | 255.252.0.0 | 255.254.0.0 | 255.255.0.0 |
| **1st Octet** | **CIDR** | **/1** | **/2** | **/3** | **/4** | **/5** | **/6** | **/7** | **/8** |
| **Subnets** | - | - | - | - | - | - | - | 1 |
| **Hosts Per Subnet** | 2,147,483,646 | 1,073,741,822 | 536,870,910 | 268,435,454 | 134,217,726 | 67,108,862 | 33,554,430 | 16,777,214 |
| **Subnet Mask** | 128.0.0.0 | 192.0.0.0 | 224.0.0.0 | 240.0.0.0 | 248.0.0.0 | 252.0.0.0 | 254.0.0.0 | 255.0.0.0 |