VLab 04

Required discussion questions for this week are:

1.1.1 : 16, 32, 64, 128.

1.5.1 :10010001

1.5.2 : 204

1.5.3 : 6b

1.5.4 :1100 0111, 199

2.9 :

|  |  |  |  |
| --- | --- | --- | --- |
| 172.16.0.0 | | | |
| New Subnet Mask | | 255.255.252.0 | |
| Hosts per Subnet | | 1022 | |
| Subnet Address | First Available IP | Last  Available IP | Broadcast |
| 255.255.252.0 | 172.16.0.1 | 172.16.3.254 | 172.16.3.255 |
| 255.255.252.0 | 172.16.4.1 | 172.16.7.254 | 172.16.7.255 |
| 255.255.252.0 | 172.16.8.1 | 172.16.11.254 | 172.16.11.255 |
| 255.255.252.0 | 172.16.12.1 | 172.16.15.254 | 172.16.15.255 |

|  |  |  |  |
| --- | --- | --- | --- |
| 10.0.0.0 | | | |
| New Subnet Mask | | 255.255.254.0 | |
| Hosts per Subnet | | 8190 | |
| Subnet Address | First Available IP | Last  Available IP | Broadcast |
| 255.255.254.0 | 10.0.0.1 | 10.0.31.254 | 10.0.31.255 |
| 255.255.254.0 | 10.0.32.1 | 10.0.63.254 | 10.0.63.255 |
| 255.255.254.0 | 10.0.64.1 | 10.0.95.254 | 10.0.95.255 |
| 255.255.254.0 | 10.0.96.1 | 10.0.127.254 | 10.0.127.255 |

3.3.1 : True

3.3.2 : False

3.3.3 : True

4.4.1: hextets

4.4.2: 2001:1a0:33::1:d4

4.4.3 : 18 quintillion

5.3.1: No, you can’t use :: twice in the same address

5.3.2 : Yes, it follows the formatting rules of ipv6 addressing

5.3.3 : ping::1