| **Subnet No** | **Subnet Address** | **1st usable** | **Last usable** | **Broadcast address** |
| --- | --- | --- | --- | --- |
| 1 | 195.223.50.0 | 195.223.50.1 | 195.223.50.126 | 195.223.50.127 |
| 2 | 195.223.50.128 | 195.223.50.129 | 195.223.50.254 | 195.223.50.255 |
| 3 | 195.223.51.0 | 195.223.51.2 | 195.223.51.126 | 195.223.51.127 |
| 4 | 195.223.51.128 | 195.223.51.129 | 195.223.51.254 | 195.223.51.255 |

| **Subnet No** | **Subnet Address** | **1st usable** | **Last usable** | **Broadcast address** |
| --- | --- | --- | --- | --- |
| 1 | 190.35.0.0 | 190.35.0.1 | 190.35.0.62 | 190.35.0.63 |
| 2 | 190.35.0.64 | 190.35.0.65 | 190.35.0.126 | 190.35.0.127 |
| 3 | 190.35.0.128 | 190.35.0.129 | 190.35.0.190 | 190.35.0.191 |
| 4 | 190.35.0.192 | 190.35.0.193 | 190.35.0.254 | 190.35.0.255 |
| 5 | 190.35.1.0 | 190.35.1.1 | 190.35.1.62 | 190.35.1.63 |
| 6 | 190.35.1.64 | 190.35.1.65 | 190.35.1.126 | 190.35.1.127 |
| 7 | 190.35.1.128 | 190.35.1.129 | 190.35.1.190 | 190.35.1.191 |
| 8 | 190.35.1.192 | 190.35.1.193 | 190.35.1.254 | 190.35.1.255 |
| 9 | 190.35.2.0 | 190.35.2.1 | 190.35.2.62 | 190.35.2.63 |
| 10 | 190.35.2.64 | 190.35.2.65 | 190.35.2.126 | 190.35.2.127 |

| **Subnet No** | **Subnet Address** | **1st usable** | **Last usable** | **Broadcast address** |
| --- | --- | --- | --- | --- |
| 1 | 192.70.10.0 | 192.70.10.1 | 192.70.10.14 | 192.70.10.15 |
| 2 | 192.70.10.16 | 192.70.10.17 | 192.70.10.30 | 192.70.10.31 |
| 3 | 192.70.10.32 | 192.70.10.33 | 192.70.10.46 | 192.70.10.47 |
| 4 | 192.70.10.48 | 192.70.10.49 | 192.70.10.62 | 192.70.10.63 |
| 5 | 192.70.10.64 | 192.70.10.65 | 192.70.10.78 | 192.70.10.79 |
| 6 | 192.70.10.80 | 192.70.10.81 | 192.70.10.94 | 192.70.10.95 |
| 7 | 192.70.10.96 | 192.70.10.97 | 192.70.10.110 | 192.70.10.111 |
| 8 | 192.70.10.112 | 192.70.10.113 | 192.70.10.126 | 192.70.10.127 |
| 9 | 192.70.10.128 | 192.70.10.129 | 192.70.10.142 | 192.70.10.143 |
| 10 | 192.70.10.144 | 192.70.10.145 | 192.70.10.158 | 192.70.10.159 |
| 11 | 192.70.10.160 | 192.70.10.161 | 192.70.10.174 | 192.70.10.175 |
| 12 | 192.70.10.176 | 192.70.10.177 | 192.70.10.190 | 192.70.10.191 |

| **Subnet No** | **Subnet Address** | **1st usable** | **Last usable** | **Broadcast address** |
| --- | --- | --- | --- | --- |
| 1 | 10.0.0.0 | 10.0.0.1 | 10.0.255.254 | 10.0.255.255 |
| 2 | 10.1.0.0 | 10.1.0.1 | 10.1.255.254 | 10.1.255.255 |
| 3 | 10.2.0.0 | 10.2.0.1 | 10.2.255.254 | 10.2.255.255 |
| 4 | 10.3.0.0 | 10.3.0.1 | 10.3.255.254 | 10.3.255.255 |
| 5 | 10.4.0.0 | 10.4.0.1 | 10.4.255.254 | 10.4.255.255 |
| 6 | 10.5.0.0 | 10.5.0.1 | 10.5.255.254 | 10.5.255.255 |
| 7 | 10.6.0.0 | 10.6.0.1 | 10.6.255.254 | 10.6.255.255 |
| 8 | 10.7.0.0 | 10.7.0.1 | 10.7.255.254 | 10.7.255.255 |
| 9 | 10.8.0.0 | 10.8.0.1 | 10.8.255.254 | 10.8.255.255 |
| 10 | 10.9.0.0 | 10.9.0.1 | 10.9.255.254 | 10.9.255.255 |
| 11 | 10.10.0.0 | 10.10.0.1 | 10.10.255.254 | 10.10.255.255 |

| **Subnet No** | **Subnet Address** | **1st usable** | **Last usable** | **Broadcast address** |
| --- | --- | --- | --- | --- |
| 1 | 172.50.0.0 | 172.50.0.1 | 172.50.31.254 | 172.50.31.255 |
| 2 | 172.50.32.0 | 172.50.32.1 | 172.50.63.254 | 172.50.63.255 |
| 3 | 172.50.64.0 | 172.50.64.1 | 172.50.95.254 | 172.50.95.255 |
| 4 | 172.50.96.0 | 172.50.96.1 | 172.50.127.254 | 172.50.127.255 |
| 5 | 172.50.128.0 | 172.50.128.1 | 172.50.159.254 | 172.50.159.255 |
| 6 | 172.50.160.0 | 172.50.160.1 | 172.50.191.254 | 172.50.191.255 |

| **Subnet No** | **Subnet Address** | **1st usable** | **Last usable** | **Broadcast address** |
| --- | --- | --- | --- | --- |
| 1 | 172.50.0.0 | 172.50.0.1 | 172.50.0.30 | 172.50.0.31 |
| 2 | 172.50.0.32 | 172.50.0.33 | 172.50.0.62 | 172.50.0.63 |
| 3 | 172.50.0.64 | 172.50.0.65 | 172.50.0.94 | 172.50.0.95 |
| 4 | 172.50.0.96 | 172.50.0.97 | 172.50.0.126 | 172.50.0.127 |
| 5 | 172.50.0.128 | 172.50.0.129 | 172.50.0.158 | 172.50.0.159 |
| 6 | 172.50.0.160 | 172.50.0.161 | 172.50.0.190 | 172.50.0.191 |
| 7 | 172.50.0.192 | 172.50.0.193 | 172.50.0.222 | 172.50.0.223 |
| 8 | 172.50.0.224 | 172.50.0.225 | 172.50.0.254 | 172.50.0.255 |
| 9 | 172.50.1.0 | 172.50.1.1 | 172.50.1.30 | 172.50.1.31 |
| 10 | 172.50.1.32 | 172.50.1.33 | 172.50.1.62 | 172.50.1.63 |

| **Subnet No** | **Subnet Address** | **1st usable** | **Last usable** | **Broadcast address** |
| --- | --- | --- | --- | --- |
| 1 | 135.70.0.0 | 135.70.0.1 | 135.70.31.254 | 135.70.31.255 |
| 2 | 135.70.32.0 | 135.70.32.1 | 135.70.63.254 | 135.70.63.255 |
| 3 | 135.70.64.0 | 135.70.64.1 | 135.70.95.254 | 135.70.95.255 |
| 4 | 135.70.96.0 | 135.70.96.1 | 135.70.127.254 | 135.70.127.255 |
| 5 | 135.70.128.0 | 135.70.128.1 | 135.70.159.254 | 135.70.159.255 |
| 6 | 135.70.160.0 | 135.70.160.1 | 135.70.191.254 | 135.70.191.255 |
| 7 | 135.70.192.0 | 135.70.192.1 | 135.70.223.254 | 135.70.223.255 |

| **Subnet No** | **Subnet Address** | **1st usable** | **Last usable** | **Broadcast address** |
| --- | --- | --- | --- | --- |
| 1 | 198.125.50.0 | 198.125.50.1 | 198.125.50.62 | 198.125.50.63 |
| 2 | 198.125.50.64 | 198.125.50.65 | 198.125.50.126 | 198.125.50.127 |
| 3 | 198.125.50.128 | 198.125.50.129 | 198.125.50.190 | 198.125.50.191 |
| 4 | 198.125.50.192 | 198.125.50.193 | 198.125.50.254 | 198.125.50.255 |

| **Subnet No** | **Subnet Address** | **1st usable** | **Last usable** | **Broadcast address** |
| --- | --- | --- | --- | --- |
| 1 | 200.10.10.0 | 200.10.10.1 | 200.10.10.30 | 200.10.10.31 |
| 2 | 200.10.10.32 | 200.10.10.33 | 200.10.10.62 | 200.10.10.63 |
| 3 | 200.10.10.64 | 200.10.10.65 | 200.10.10.94 | 200.10.10.95 |
| 4 | 200.10.10.96 | 200.10.10.97 | 200.10.10.126 | 200.10.10.127 |
| 5 | 200.10.10.128 | 200.10.10.129 | 200.10.10.158 | 200.10.10.159 |
| 6 | 200.10.10.160 | 200.10.10.161 | 200.10.10.190 | 200.10.10.191 |
| 7 | 200.10.10.192 | 200.10.10.193 | 200.10.10.222 | 200.10.10.223 |

| **Subnet No** | **Subnet Address** | **1st usable** | **Last usable** | **Broadcast address** |
| --- | --- | --- | --- | --- |
| 1 | 93.0.0.0 | 93.0.0.1 | 93.0.31.254 | 93.0.31.255 |
| 2 | 93.0.32.0 | 93.0.32.1 | 93.0.63.254 | 93.0.63.255 |
| 3 | 93.0.64.0 | 93.0.64.1 | 93.0.95.254 | 93.0.95.255 |
| 4 | 93.0.96.0 | 93.0.96.1 | 93.0.127.254 | 93.0.127.255 |
| 5 | 93.0.128.0 | 93.0.128.1 | 93.0.159.254 | 93.0.159.255 |
| 6 | 93.0.160.0 | 93.0.160.1 | 93.0.191.254 | 93.0.191.255 |
| 7 | 93.0.192.0 | 93.0.192.1 | 93.0.223.254 | 93.0.223.255 |
| 8 | 93.0.224.0 | 93.0.224.1 | 93.0.255.254 | 93.0.255.255 |
| 9 | 93.1.0.0 | 93.1.0.1 | 93.1.31.254 | 93.1.31.255 |
| 10 | 93.1.32.0 | 93.1.32.1 | 93.1.63.254 | 93.1.63.255 |
| 11 | 93.1.64.0 | 93.1.64.1 | 93.1.95.254 | 93.1.95.255 |
| 12 | 93.1.96.0 | 93.1.96.1 | 93.1.127.254 | 93.1.127.255 |
| 13 | 93.1.128.0 | 93.1.128.1 | 93.1.159.254 | 93.1.159.255 |
| 14 | 93.1.160.0 | 93.1.160.1 | 93.1.191.254 | 93.1.191.255 |
| 15 | 93.1.192.0 | 93.1.192.1 | 93.1.223.254 | 93.1.223.255 |

| **Subnet No** | **Subnet Address** | **Broadcast address** |
| --- | --- | --- |
| 1 | 172.16.0.0 | 172.16.0.255 |
| 2 | 172.16.1.0 | 172.16.1.255 |
| 3 | 172.16.2.0 | 172.16.2.255 |
| 54 | 172.16.3.0 | 172.16.3.255 |

| **Subnet No** | **Subnet Address** | **Broadcast address** |
| --- | --- | --- |
| 1 | 210.15.10.0 | 172.15.10.63 |
| 2 | 172.15.10.64 | 172.15.10.127 |

| **Subnet No** | **Subnet Address** | **Broadcast address** |
| --- | --- | --- |
| 1 | 10.0.0.0 | 10.15.255.255 |
| 2 | 10.16.0.0 | 10.31.255.255 |
| 3 | 10.32.0.0 | 10.47.255.255 |
| 4 | 10.48.0.0 | 10.63.255.255 |
| 5 | 10.64.0.0 | 10.79.255.255 |
| 6 | 10.80.0.0 | 10.95.255.255 |
| 7 | 10.96.0.0 | 10.111.255.255 |

| **Subnet No** | **Subnet Address** | **Broadcast address** |
| --- | --- | --- |
| 1 | 177.135.0.0 | 177.135.3.255 |
| 2 | 177.135.4.0 | 177.135.7.255 |
| 3 | 177.135.8.0 | 177.135.11.255 |
| 4 | 177.135.12.0 | 177.135.15.255 |

| **Subnet No** | **Subnet Address** | **Broadcast address** |
| --- | --- | --- |
| 1 | 192.168.1.0 | 192.168.1.31 |
| 2 | 192.168.1.32 | 192.168.1.63 |
| 3 | 192.168.1.64 | 192.168.1.95 |

| **Subnet No** | **Subnet Address** | **Broadcast address** |
| --- | --- | --- |
| 1 | 148.55.0.0 | 148.55.15.255 |
| 2 | 148.55.16.0 | 148.55.31.255 |
| 3 | 148.55.32.0 | 148.55.47.255 |
| 4 | 148.55.48.0 | 148.55.63.255 |
| 5 | 148.55.64.0 | 148.55.79.255 |

| **Subnet No** | **Subnet Address** | **Broadcast address** |
| --- | --- | --- |
| 1 | 172.16.0.0 | 172.16.15.255 |
| 2 | 172.16.16.0 | 172.16.31.255 |
| 3 | 172.16.32.0 | 172.16.47.255 |
| 4 | 172.16.48.0 | 172.16.63.255 |

| **Subnet No** | **Subnet Address** | **Broadcast address** |
| --- | --- | --- |
| 1 | 135.126.0.0 | 135.126.15.255 |
| 2 | 135.126.16.0 | 135.126.31.255 |
| 3 | 135.126.32.0 | 135.126.47.255 |
| 4 | 135.126.48.0 | 135.126.63.255 |
| 5 | 135.126.64.0 | 135.126.79.255 |

| **Subnet No** | **Subnet Address** | **1st usable** | **Last usable** | **Broadcast address** |
| --- | --- | --- | --- | --- |
| 1 | 165.200.0.0 | 165.200.0.1 | 165.200.0.62 | 165.200.0.63 |
| 2 | 165.200.0.64 | 165.200.0.65 | 165.200.0.126 | 165.200.0.127 |
| 3 | 165.200.0.128 | 165.200.0.129 | 165.200.0.194 | 165.200.0.195 |
| 4 | 165.200.0.196 | 165.200.0.197 | 165.200.0.254 | 165.200.0.255 |
| 5 | 165.200.1.0 | 165.200.1.1 | 165.200.1.62 | 165.200.1.63 |
| 6 | 165.200.1.64 | 165.200.1.65 | 165.200.1.126 | 165.200.1.127 |
| 7 | 165.200.1.128 | 165.200.1.129 | 165.200.1.194 | 165.200.1.195 |
| 8 | 165.200.1.196 | 165.200.1.197 | 165.200.1.254 | 165.200.1.255 |
| 9 | 165.200.2.0 | 165.200.2.1 | 165.200.2.62 | 165.200.2.63 |
| 10 | 165.200.2.64 | 165.200.2.65 | 165.200.2.126 | 165.200.2.127 |
| 11 | 165.200.2.128 | 165.200.2.129 | 165.200.2.194 | 165.200.2.195 |

Assignment:

| IP address = 172.16.0.0  11111111 11111111 11100000 000000000 (custom subnet mask) 255.255.224.0  172.16.32.0 - subnet address  No of subnet = 5  3 bits |
| --- |

| **Subnet No** | **Subnet Address** | **1st usable** | **Last usable** | **Broadcast address** |
| --- | --- | --- | --- | --- |
| 1 | 172.16.32.0 | 172.16.32.1 | 172.16.63.254 | 172.16.63.255 |
| 2 | 172.16.64.0 | 172.16.64.1 | 172.16.127.254 | 172.16.127.255 |
| 3 | 172.16.128.0 | 172.16.128.1 | 172.16.195.254 | 172.16.195.255 |
| 4 | 172.16.196.0 | 172.16.196.1 | 172.16.255.254 | 172.16.227.255 |
| 5 | 172.16.228.0 | 172.16.228.1 | 172.16.255.254 | 172.16.255.255 |