150.100.120.0/19 – Subnet

255.255.224.0/19 – subnet mask(11111111.11111111.11100000.00000000)

6 network ~ 8 = 2^3

Borrow 3 bits = /19 + 3 = /22

150.100.120.0/22

255.255.252.0/22 (11111111.11111111.11111100.00000000) = Range in 4

|  |  |  |  |
| --- | --- | --- | --- |
| **Network address** | **First Host** | **Last Host** | **Broadcast address** |
| 150.100.120.0 | 150.100.120.1 | 150.100.123.254 | 150.100.123.255 |
| 150.100.124.0 | 150.100.124.1 | 150.100.127.254 | 150.100.127.255 |
| 150.100.128.0 | 150.100.128.1 | 150.100.131.254 | 150.100.131.255 |
| 150.100.132.0 | 150.100.132.1 | 150.100.135.254 | 150.100.135.255 |
| 150.100.136.0 | 150.100.136.1 | 150.100.139.254 | 150.100.139.255 |
| 150.100.140.0 | 150.100.140.1 | 150.100.143.254 | 150.100.143.255 |