# Subnetting

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Subnet Name** | **Needed Size** | **Allocated Size** | **Address** | **Mask** | **Dec Mask** | **Assignable Range** | **Broadcast** |
| **E** | 104386 | 131070 | 216.0.0.0 | /15 | 255.254.0.0 | 216.0.0.1 - 216.1.255.254 | 216.1.255.255 |
| **A** | 43578 | 65534 | 216.2.0.0 | /16 | 255.255.0.0 | 216.2.0.1 - 216.2.255.254 | 216.2.255.255 |
| **F** | 18123 | 32766 | 216.3.0.0 | /17 | 255.255.128.0 | 216.3.0.1 - 216.3.127.254 | 216.3.127.255 |
| **B** | 10988 | 16382 | 216.3.128.0 | /18 | 255.255.192.0 | 216.3.128.1 - 216.3.191.254 | 216.3.191.255 |
| **C** | 9583 | 16382 | 216.3.192.0 | /18 | 255.255.192.0 | 216.3.192.1 - 216.3.255.254 | 216.3.255.255 |
| **L** | 5221 | 8190 | 216.4.0.0 | /19 | 255.255.224.0 | 216.4.0.1 - 216.4.31.254 | 216.4.31.255 |
| **G** | 2961 | 4094 | 216.4.32.0 | /20 | 255.255.240.0 | 216.4.32.1 - 216.4.47.254 | 216.4.47.255 |
| **K** | 1688 | 2046 | 216.4.48.0 | /21 | 255.255.248.0 | 216.4.48.1 - 216.4.55.254 | 216.4.55.255 |
| **D** | 1587 | 2046 | 216.4.56.0 | /21 | 255.255.248.0 | 216.4.56.1 - 216.4.63.254 | 216.4.63.255 |
| **H** | 1029 | 2046 | 216.4.64.0 | /21 | 255.255.248.0 | 216.4.64.1 - 216.4.71.254 | 216.4.71.255 |
| **I** | 874 | 1022 | 216.4.72.0 | /22 | 255.255.252.0 | 216.4.72.1 - 216.4.75.254 | 216.4.75.255 |
| **M** | 771 | 1022 | 216.4.76.0 | /22 | 255.255.252.0 | 216.4.76.1 - 216.4.79.254 | 216.4.79.255 |
| **J** | 248 | 254 | 216.4.80.0 | /24 | 255.255.255.0 | 216.4.80.1 - 216.4.80.254 | 216.4.80.255 |