|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Subnet Name** | Needed Size | Address | Subnet | Range |
| M (Mordor) | 5000 | 10.13.0.0/19 | 255.255.224.0 | 10.13.0.1 – 10.13.31.254 |
| C (Cardolan) | 1022 | 10.13.32.0/22 | 255.255.252.0 | 10.13.32.1 - 10.13.35.254 |
| E (Eriador) | 1020 | 10.13.36.0/22 | 255.255.252.0 | 10.13.36.1 - 10.13.39.254 |
| A (Arnor) | 511 | 10.13.40.0/22 | 255.255.252.0 | 10.13.40.1 - 10.13.43.254 |
| S (Shire) | 254 | 10.13.44.0/24 | 255.255.255.0 | 10.13.44.1 - 10.13.44.254 |
| G (Gordor) | 127 | 10.13.45.0/24 | 255.255.255.0 | 10.13.45.1 - 10.13.45.254 |
| R (Rohan) | 30 | 10.13.46.0/27 | 255.255.255.224 | 10.13.46.1 - 10.13.46.30 |
| W1 | 2 | 10.13.46.32/30 | 255.255.255.252 | 10.13.46.33 - 10.13.46.34 |
| W2 | 2 | 10.13.46.36/30 | 255.255.255.252 | 10.13.46.37 - 10.13.46.38 |
| W3 | 2 | 10.13.46.40/30 | 255.255.255.252 | 10.13.46.41 - 10.13.46.42 |
| W4 | 2 | 10.13.46.44/30 | 255.255.255.252 | 10.13.46.45 - 10.13.46.46 |
| W5 | 2 | 10.13.46.48/30 | 255.255.255.252 | 10.13.46.49 - 10.13.46.50 |
| W6 | 2 | 10.13.46.52/30 | 255.255.255.252 | 10.13.46.53 - 10.13.46.54 |
| W7 | 2 | 10.13.46.56/30 | 255.255.255.252 | 10.13.46.57 - 10.13.46.58 |
| W8 | 2 | 10.13.46.60/30 | 255.255.255.252 | * + - 1. - 10.13.46.62 |

**VLSM Address Table:**

Network Address => 10.13.0.0/16