|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **No.** | **Roll No.** | **Full Name** | **Public IP Address** | **Private IP Address** |
| 24 | 23I-2078 | Habib Ahmed | 198.51.100.21 | 10.0.0.10 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Network A | Network B | Network C | Network D | Network E | Network F | Network G |
| 23456 | 67890 | 26777 | 74658 | 25656 | 94578 | 37887 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Network H | Network I | Network J | Network K | Network L | Network M | Network N |
| 48997 | 39012 | 52305 | 63416 | 9490 | 101164 | 5983 |

The network 10.0.0.0/8 has 16777214 hosts.

Your subnets need 671317 hosts.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Hosts | 2^n | Network | / | Mask | Usable |
| M | 101164 | 131072 | 10.0.0.0 | /15 | 255.254.0.0 | 10.0.0.11 - 10.1.255.254 |
| F | 94578 | 131072 | 10.2.0.0 | /15 | 255.254.0.0 | 10.2.0.1 - 10.3.255.254 |
| D | 74658 | 131072 | 10.4.0.0 | /15 | 255.254.0.0 | 10.4.0.1 - 10.5.255.254 |
| B | 67890 | 131072 | 10.6.0.0 | /15 | 255.254.0.0 | 10.6.0.1 - 10.7.255.254 |
| K | 63416 | 65536 | 10.8.0.0 | /16 | 255.255.0.0 | 10.8.0.1 - 10.8.255.254 |
| J | 52305 | 65536 | 10.9.0.0 | /16 | 255.255.0.0 | 10.9.0.1 - 10.9.255.254 |
| H | 48997 | 65536 | 10.10.0.0 | /16 | 255.255.0.0 | 10.10.0.1 - 10.10.255.254 |
| I | 39012 | 65536 | 10.11.0.0 | /16 | 255.255.0.0 | 10.11.0.1 - 10.11.255.254 |
| G | 37887 | 65536 | 10.12.0.0 | /16 | 255.255.0.0 | 10.12.0.1 - 10.12.255.254 |
| C | 26777 | 32768 | 10.13.0.0 | /17 | 255.255.128.0 | 10.13.0.1 - 10.13.127.254 |
| E | 25656 | 32768 | 10.13.128.0 | /17 | 255.255.128.0 | 10.13.128.1 - 10.13.255.254 |
| A | 23456 | 32768 | 10.14.0.0 | /17 | 255.255.128.0 | 10.14.0.1 - 10.14.127.254 |
| L | 9490 | 16384 | 10.14.128.0 | /18 | 255.255.192.0 | 10.14.128.1 - 10.14.191.254 |
| N | 5983 | 8192 | 10.14.192.0 | /19 | 255.255.224.0 | 10.14.192.1 - 10.14.223.254 |
| 15 | 2 | 4 | 10.14.224.0 | /30 | 255.255.255.252 | 10.14.224.1 - 10.14.224.2 |
| 16 | 2 | 4 | 10.14.224.4 | /30 | 255.255.255.252 | 10.14.224.5 - 10.14.224.6 |
| 17 | 2 | 4 | 10.14.224.8 | /30 | 255.255.255.252 | 10.14.224.9 - 10.14.224.10 |
| 18 | 2 | 4 | 10.14.224.12 | /30 | 255.255.255.252 | 10.14.224.13 - 10.14.224.14 |
| 19 | 2 | 4 | 10.14.224.16 | /30 | 255.255.255.252 | 10.14.224.17 - 10.14.224.18 |
| 20 | 2 | 4 | 10.14.224.20 | /30 | 255.255.255.252 | 10.14.224.21 - 10.14.224.22 |
| 21 | 2 | 4 | 10.14.224.24 | /30 | 255.255.255.252 | 10.14.224.25 - 10.14.224.26 |
| 22 | 2 | 4 | 10.14.224.28 | /30 | 255.255.255.252 | 10.14.224.29 - 10.14.224.30 |
| 23 | 2 | 4 | 10.14.224.32 | /30 | 255.255.255.252 | 10.14.224.33 - 10.14.224.34 |
| 24 | 2 | 4 | 10.14.224.36 | /30 | 255.255.255.252 | 10.14.224.37 - 10.14.224.38 |
| 25 | 2 | 4 | 10.14.224.40 | /30 | 255.255.255.252 | 10.14.224.41 - 10.14.224.42 |
| 26 | 2 | 4 | 10.14.224.44 | /30 | 255.255.255.252 | 10.14.224.45 - 10.14.224.46 |
| 27 | 2 | 4 | 10.14.224.48 | /30 | 255.255.255.252 | 10.14.224.49 - 10.14.224.50 |
| 28 | 2 | 4 | 10.14.224.52 | /30 | 255.255.255.252 | 10.14.224.53 - 10.14.224.54 |
| 29 | 2 | 4 | 10.14.224.56 | /30 | 255.255.255.252 | 10.14.224.57 - 10.14.224.58 |
| 30 | 2 | 4 | 10.14.224.60 | /30 | 255.255.255.252 | 10.14.224.61 - 10.14.224.62 |
| 31 | 2 | 4 | 10.14.224.64 | /30 | 255.255.255.252 | 10.14.224.65 - 10.14.224.66 |
| 32 | 2 | 4 | 10.14.224.68 | /30 | 255.255.255.252 | 10.14.224.69 - 10.14.224.70 |
| 33 | 2 | 4 | 10.14.224.72 | /30 | 255.255.255.252 | 10.14.224.73 - 10.14.224.74 |
| 34 | 2 | 4 | 10.14.224.76 | /30 | 255.255.255.252 | 10.14.224.77 - 10.14.224.78 |
| 35 | 2 | 4 | 10.14.224.80 | /30 | 255.255.255.252 | 10.14.224.81 - 10.14.224.82 |
| 36 | 2 | 4 | 10.14.224.84 | /30 | 255.255.255.252 | 10.14.224.85 - 10.14.224.86 |
| 37 | 2 | 4 | 10.14.224.88 | /30 | 255.255.255.252 | 10.14.224.89 - 10.14.224.90 |
| 38 | 2 | 4 | 10.14.224.92 | /30 | 255.255.255.252 | 10.14.224.93 - 10.14.224.94 |

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