|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Subnetwork |  | IP Adress | Host Domain | Broadcast Adress |
| #0 |  | 168.177.4.0 | 168.177.4.1-168.177.7.254 | 168.177.7.255 |
| #1 |  | 168.177.8.0 | 168.177.8.1-168.177.11.254 | 168.177.11.255 |
| #2 |  | 168.177.12.0 | 168.177.12.1-168.177.15.254 | 168.177.15.255 |
| ... |  | ... | ... | ... |
| ... |  | ... | ... | ... |
| ... |  | ... | ... | ... |
| #35 |  | 168.177.140.0 | 168.177.140.1-168.177.143.254 | 168.177.143.255 |
| #36 |  | 168.177.144.0 | 168.177.144.1-168.177.147.254 | 168.177.147.255 |
| #37 |  | 168.177.148.0 | 168.177.148.1-168.177.151.254 | 168.177.151.255 |
| ... |  | ... | ... | ... |
| ... |  | ... | ... | ... |
| ... |  | ... | ... | ... |
| #61 |  | 168.177.244.0 | 168.177.244.1-168.177.247.254 | 168.177.247.255 |
| #62 |  | 168.177.248.0 | 168.177.248.1-168.177.251.254 | 168.177.247.255 |
| #63 |  | 168.177.252.0 | 168.177.252.1-168.177.255.254 | 168.177.255.255 |

**64 subnetworks, 1022 hosts/subnetwork**

**Network adress class B: 168.177.0.0**

**Subnetwork mask: 255.255.252.0**

**CIDR: /22 -> 16+6**

**How many physical subnets are needed today?**

52 subnets

**How many physical subnets are expected to be needed in the near future?**

12 subnets

**How many hosts must have the largest subnet today?**

200 hosts

**How many hosts must have the largest subnet in the near future?**

200 hosts

**To which address classes does the IP address belong?**

class B