**194.101.144.0 / 23**

* N1: 104 IP-uri
* N2: 88 IP-uri
* N3: 40 IP-uri
* N4: 40 IP-uri
* N5: 8 IP-uri

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Retea | Nr ip-uri pt calculatoare | Nr ip-uri necesare in retea | Nr ip-uri (putere a lui 2) | Netmask |
| N1 | 104 | 107 | 128 = 2 ^ 7 | /25 |
| N2 | 88 | 91 | 128 = 2 ^ 7 | /25 |
| N3 | 40 | 43 | 64 = 2 ^ 6 | /26 |
| N4 | 40 | 43 | 64 = 2 ^ 6 | /26 |
| N5 | 8 | 11 | 16 = 2 ^ 4 | /28 |

**194.101.144.0/23** -> are 2^9 ip-uri

* **194.101.144.0/24** -> are 2^8 ip-uri

Adresa de retea: 194.101.144.0

Adresa de bcast: 194.101.144.255

* **194.101.144.0/25** -> are 2^7 ip-uri – pentru N1
* **194.101.144.128/25** -> are 2^7 ip-uri – pentru N2
* **194.101.145.0/24** -> are 2^8 ip-uri

Adresa de retea: 194.101.145.0

Adresa de bcast: 194.101.145.255

* 194.101.145.0/25 -> are 2^7 ip-uri
  + 194.101.145.0/26 -> are 2^6 ip-uri – pentru N3
  + 194.101.145.64/26 -> are 2^6 ip-uri – pentru N4
* 194.101.145.128/25 -> are 2^7 ip-uri
  + 194.101.145.128/26 -> are 2^6 ip-uri
    - 194.101.145.128/27 -> are 2^5 ip-uri
      * 194.101.145.128/28 -> are 2^4 ip-uri – pentru N5
      * 194.101.145.144/28
        + 194.101.145.144/29 -> are 2^3 ip-uri – pentru R1R2R3
        + 194.101.145.152/29

194.101.145.152/30 -> are 2^2 ip-uri – pentru R4R5

194.101.145.156/30 -> are 2^2 ip-uri – pentru R3R4

* + - 194.101.145.160/27 -> are 2^5 ip-uri
      * 194.101.145.160/28 -> are 2^4 ip-uri
        + 194.101.145.160/29

194.101.145.160/30 – pentru R2R7

194.101.145.164/30 – pentru R5R6

* + - * + 194.101.145.168/29 - LIBERE
      * 194.101.145.192/28 - LIBERE
  + 194.101.145.192/26 -> are 2^6 ip-uri – PENTRU VLAN 10