Nama :

NIM :

Prak

Kelas C

RANGE IP = 192.XXX.XXX.XXX-223.XXX.XXX.XXX

RANGE Prefix = /24 - /31

IP Address = 195.181.121.0/25

Biner = 11111111. 11111111. 11111111. 10000000

Subnet Mask = 255.255.255.128

Jumlah Blok Subnet (2y)

= 21

= 2 Jumlah Blok WSubnet

Jumlah Host Per Subnet (2y)-2

= (27 )-2

= 128-2

= 126 Host persubnet

Blok Subnet (256-SB)

= 256-128

= 0, 128

Tabel IP Address

|  |  |  |
| --- | --- | --- |
|  | Blok 1 | Blok 2 |
| **Network Address/Net ID** | 195.181.121.0 | 195.181.121.128 |
| **Host Awal** | 195.181.121.1 | 195.181.121.129 |
| **Host Akhir** | 195.181.121.126 | 195.181.121.254 |
| **Broadcast / BC ID** | 195.181.121.127 | 195.181.121.255 |

//Kuis Tapi Gajadi

Silahkanlakukan subnetting kelas c dengan ip address 192.168.1.1/26

IP Address = 195.181.121.1/26

Biner = 11111111. 11111111. 11111111. 11000000

Subnet Mask = 255.255.2555.192

Jumlah Blok Subnet (2y)

= 22

= 4 Jumlah Blok WSubnet

Jumlah Host Per Subnet (2y)-2

= (27 )-2

= 128-2

= 126 Host persubnet

Blok Subnet (256-SB)

= 256-128

= 0, 128

Kelas A

RANGE iP = 128.XXX.XXX.XXX – 191.XXX.XXX.XXX

Range Prefix = /16-/23

IP Address = 133.14.15.16/18

Biner = 11111111. 11111111. 11000000.00000000

Subnet Mask = 255.255.192.0

Jumlah Blok subnet (2x)

= 22

= 4 Jumlah Blok Subnet

Jumlah Host Per Subnet (2y)-2

= (214 )-2

= 16384-2

= 16382 Host persubnet

Blok Subnet (256-SB)

= 256-192

= 64

Tabel IP Address

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Blok 1 | Blok 2 | Blok 3 | Blok 4 |
| **Network Address/Net ID** | 133.14.0.0 | 133.14.64.0 | 133.14.128.0 | 133.14.192.0 |
| **Host Awal** | 133.14.0.1 | 133.14.64.1 | 133.14.128.1 | 133.14.192.1 |
| **Host Akhir** | 133.14.63.254 | 133.14.127.1 | 133.14.191.254 | 133.14.255.254 |
| **Broadcast / BC ID** | 133.14.63.255 | 133.14.127.1 | 133.14.191.255 | 133.14.255.255 |

Kelas A

Range = 1.XXX.XXX.XXX - 127.XXX.XXX.XXX

IP = 1.2.3.4/11

Biner = 11111111.11100000.00000000.00000000

Range Prefix = 255.224.0.0

Jumlah Blok Subnet (2x) //x dapetnya dari sisa 11100000

23 = 8

Jumlah Host Per Subnet (2y)-2 //y dapetnya dari jumlah 0 di biner

221 – 2 = 2097150

Blok Subnet (256-SB) // SB = Range

256-224 = 32

(0 . 32 64 96 128 160 192 224

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Blok 1 | Blok 2 | Blok 3 | Blok 4 | Blok 5 | Blok 6 | Blok 7 | Blok 8 |
| **Network Address/Net ID** | 1.0.0.0 | 1.32.0.0 | 1.64.0.0 | 1.96.0.0 | 1.128.0.0 | 1.160.0.0 | 1.192.0.0 | 1.224.0.0 |
| **Host Awal** | 1.0.0.1 | 1.32.0.1 | 1.64.0.1 | 1.96.0.1 | 1.128.0.1 | 1.160.0.1 | 1.192.0.1 | 1.224.0.1 |
| **Host Akhir** | 1.31.255.254 | 1.63.255.254 | 1.95.255.254 | 1.127.255.254 | 1.159. 255.254 | 1.191. 255.254 | 1.223. 255.254 | 1.255.255.254 |
| **Broadcast / BC ID** | 1.31.255.255 | 1.63.255.255 | 1.95.255.255 | 1.127.255.255 | 1.159. 255.255 | 1.191. 255.255 | 1.223. 255.255 | 1.255.255.255 |

Nilai max 255

123. 1 + 1

123.2

1.255 +1

2.0

Kelas B  
RANGE iP = 128.XXX.XXX.XXX – 191.XXX.XXX.XXX

Range Prefix = /16-/23

IP Address = 192.62.0.0

Biner = 11111111. 11111111. 11000000.00000000

Subnet Mask = 255.255.192.0

Jumlah Blok subnet (2x)

= 22

= 4 Jumlah Blok Subnet

Jumlah Host Per Subnet (2y)-2

= (214 )-2

= 16384-2

= 16382 Host persubnet

Blok Subnet (256-SB)

= 256-192 =64

64 128 192 256 320 384 448 512

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Blok 1 | Blok 2 | Blok 3 | Blok 4 |
| **Network Address/Net ID** | 192.62.0.0 | 192.62.64.0 | 192.62.128.0 | 192.62.192.0 |
| **Host Awal** | 192.62.0.1 | 192.62.64.1 | 192.62.128.1 | 192.62.192.1 |
| **Host Akhir** | 192.62.63.254 | 192.62.127.254 | 192.62.191.254 | 192.62.255.254 |
| **Broadcast / BC ID** | 192.62.63.255 | 192.62.127.255 | 192.62.191.255 | 192.62.255.255 |