





## INSTITUTO TECNOLOGICO DE CANCÚN

## INGENIERIA EN SISTEMAS COMPUTACIONALES FUDAMENTOS DE TELECOM CACULO DE REDES

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1.-IP = 10.0.0.0/8

MASK = 255.0.0.0

**IP BINARIO** 

00001010.00000000.00000000.000000000

**MASK BINARIO** 

11111111.00000000.00000000.00000000

**NETWORK ID** 

00001010.00000000.00000000.00000000/8

10.0.0.0/8

**WILDCARD** 

0000000.11111111.11111111.11111111

0.255.255.255

**BROADCAST** 

PRIMERA IP = 00001010.000000000.00000000.00000001 = 10.0.0.1







2.- 172.16.0.0/12

MASK 255.240.0.0

IP A BINARIO = 10101100.0001000.00000000.00000000

MASK IP = 111111111.11110000.00000000.00000000

NETWORK ID = 10101100.0001000.00000000.00000000/12 = 172.16.0.0/12

BROADCAST =

00000000.0000111111.111111111111111111 0.63.255.255

PRIMERA IP = 10101100.0001000.00000000.00000001 = 172.16.0.1

ULTIMA IP = 10101100.0001000.11111111111111 = 172.16.255.254







3.- 192.168.0.0/16

MASK 255.255.0.0

IP BINARIO = 11000000.10101000.00000000.00000000

NETWORK ID = 1100000000.00000000.00000000. 192.168.0.0/16

WILDCARD = 00000000.00000000.1111111111111111 = 0.0.255.255 BROADCAST = 1100000000.10101000.11111111111111 = 192.168.255.255

PRIMERA IP = 11000000.10101000.00000000.00000001 = 192.168.0.1

ULTIMA IP = 1100000000.10101000.11111111111111 = 192.168.255.254