Df. 14/3/23 Network layer (19 protocols)
logical Addrewing (19 protocols) At the same time, two devices connected to Internet can't have the same IP. 32 bits long. If a device has multiple connections to internet, it will have mulliple IP addresses (eg Rocuter) Address space of 1Pv4 - 2 Dotted Decimal / Binary Notation. 128.34.58.110 0//0///0 10000000 d0100010 D011/0/0 Classful. Addressing. let byte 2nd byte 3rd byte 4th byte 0 (0-127) clss A 10 (128-191) class B 110 (192-223) Clark C [110 (224-239) Class D 1111 (240-255) Class E

clas v (Junicaries) (yeuraries) class B class c Class D- Mullicard Class F- Reserved. Since block sizes are too big, was lage of addresses Nelid/Hostid Hodid length Melid length 2961/50 8. 19/12 class A 16 bits 16 bils class B 8 bits 24 bits class c 255.0.0.0 class A 255 255.0.0 class B 255 255 255 0 class C Classless Addressing Addresses are Callocated in lerms of blocks 1. The addresses in a block must be continuous. 2 # of @ 1) " " 11 on " 1) on exponent of 2. 9. Firest address " " " " " evenly divisible by no of addresses in a block. Mark in class less addressing.

mask varies in 0-32. w.n.y. 2/1 ouncy. It is one of the address in the block.

Firef address in the block

w. x. y. z/n

Sel the right most 82-n bits in w. x.y. z to all 0's.

W. x. y. z/n.

Set the feft most 82-n 11 11 w. x.y. z to all 1's.

Total no. of addresses = 2