Subnetting
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Asject July
Lab Honework #12
12 0.0.0 / 27
i) 12.0.0.0/27
Subnet mask
# 255.0.0.0 1111111.00000000.00000000000000
minin. Observed
8  h = 3
class A has 8 ores
27-9=19
$h=19$ $2^n=2^{-19}=Total Suspets$
* updated supnet
. 1111111-1111111-11100000   27
L N H
204 056, 266 266
=7 224 255.255-255-224
* Perform AND operation 12.0.0.0000000
The state of the s
1111111 - 11111111 - 11100000
12.0.0.0 => Zirst Subnet

=> finding Host =? 1111 1111 - 1/11/111 - 1/11/11/11-11/00000 hosts: 25=32 gubret 1 12.0.0.0/27 12.0.0.31 /27 255.0.0.224 /27 NID BID subject Mask 12.0.0.1/27 12.0.0.30/27 ) usable Ips gubnet 2 NID 12.0.0.32/27 12.0.0.63/27 255.0.0.224/27 BID subject Mask Available/ 12.0.0.62/27 5 wheet 3 NID 12.0.0.64 /27 BID 12.0.0.127/27 255.0.0.224/27 12.0.0.65/27 Mable Tpis 12.0.0.126/27

sub net 4 12.0.0.128/27 NID 12.0.0.15/4/27 255.0.0.224/27 12.0.0.129/2 uses le Ip's 12.0.0.158/17 12.0.0.0000000000/15 Subret Mask 12.00000000.0000000.000000000/15 255- 0.0.0 111111 . 00000000. 00000000.0000000 · Class A has 8 bits 15-8=7 n = 7  $2^n = 2^7 = 128$  Subnets 4 updated Mask 1111 1111 . 1111110. 0000000 .000000000 /15 255. 254 0.6

\* AND operation 12. 0000 0000. 00000000-00000000/15 00000000 =) Sit sugret 12. Hosts 111/1111.1111 1110.0000 0000.0000000 /15 gubiet 02 12.0.0.0/15 NID 12.1.255.255/15 BID 255.254.0.0/15 subject Magic NID Washes Ip's 12.2.0.0/15 NSD 12.3.255.255 /15 BID 255.254.0.0 /15 Swhet Mark 12.2.0.1/15 wable to 15 12.3.255.254/15 Supret 02

Subject 03 12.4.0.0/15 12.5.255.255/15 BID 12.4.0.1/15 / Wable Iprij 12.5-255-254/15 Subnet 04 NID 12.6.0.0 ( Qno3:-140.10.10.0/17 i) 140.16. 0000/010 - 60000000/17 255.255.0.0/17 1111 1111 . 1111 1111 . 00000000 0 000000 0/17

day B has 16 bits

17-16=1

n=1 2'=2=) Subnets updated subnet 11111111. 11111111. 10000000. 60000000 /17 255 . 255. 128. 0 AND operation 140. 10. 00001010. 00000000 /17 11111111 · 11111111 · 10000000. 00000000 /17 140. 10.0.0 =) St Subnet Finding 1+osts =? 1111 1111:1111111 - 1000 0000. 0000 0000/17 h=27=128 subject 01 140.10.0.0/17 NFD 140.10.127.255/17 BFD 255.255.128.0/17 Subject N/ 03/K

140.10.0.1/17 140.10.127.254/17 gubnet of 140.10.128.0/17 140-10-215-255/17 255-255-128 -0/17 140.10.128.1/17 140.10.255-254/17