

02/05/2019

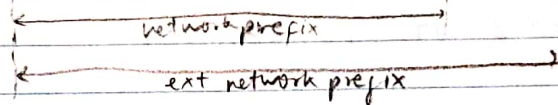
ECE C 432

HW 2

Classful Addressing

1. 3 bits are needed to create 8 subnets

2. 10000100.00101101.000...



- | | |
|------------------|-----------------|
| 3. #0 132.45.0.0 | #5 132.45.160.0 |
| #1 132.45.32.0 | #6 132.45.192.0 |
| #2 132.45.64.0 | #7 132.45.224.0 |
| #3 132.45.96.0 | |
| #4 132.45.128.0 | |

4. for subnet 3: 132.45.96.1 → 132.45.127.254

5. Broadcast addr for subnet 3: 132.45.127.255

VLSM

- | | |
|------------------|-----------------|
| 1. #0 140.25.0.0 | #4 140.25.128.0 |
| #1 140.25.32.0 | #5 140.25.160.0 |
| #2 140.25.64.0 | #6 140.25.192.0 |
| #3 140.25.96.0 | #7 140.25.224.0 |

2. Hosts for #3: 140.25.96.1 → 140.25.127.254

3. Broadcast addr for #3: 140.25.127.255

- | | |
|----------------------|--------------------|
| 4. #6-0 140.25.192.0 | #6-8 140.25.208.0 |
| #6-1 140.25.194.0 | #6-9 140.25.210.0 |
| #6-2 140.25.196.0 | #6-10 140.25.212.0 |
| #6-3 140.25.198.0 | #6-11 140.25.214.0 |
| #6-4 140.25.200.0 | #6-12 140.25.216.0 |
| #6-5 140.25.202.0 | #6-13 140.25.218.0 |
| #6-6 140.25.204.0 | #6-14 140.25.220.0 |
| #6-7 140.25.206.0 | #6-15 140.25.222.0 |

5. Hosts per #6-3: $190.25.198.1 \rightarrow 190.25.199.254$.

6. Broadcast addr #6-3: $190.25.199.255$

7. #6-14-0 $190.25.220.0$

#6-14-4 $190.25.221.0$

#6-14-1 $190.25.220.64$

#6-14-5 $190.25.221.64$

#6-14-2 $190.25.220.128$

#6-14-6 $190.25.221.128$

#6-14-3 $190.25.220.192$

#6-14-7 $190.25.221.192$

8. Hosts per #6-14-2: $190.25.220.129 \rightarrow 190.25.220.190$

9. Broadcast addr per #6-14-2: $190.25.220.191$.

CIDR:

1. $200.56.168.0/24 \rightarrow 200.56.175.0/24$

2. $212.56.146.0/21$

3. $0.0.0.0/1$