6 network, 800 host/net

149.12.0.0 /16

**10010101.00001100.00000000.00000000**

1 network, 2^16 - 2 ~65536-2 65534

IANA 5 tane IP adresi

Class 126 ~16milyon/per

Class A B C

Subnetwork

**10010101.00001100.00000000.00000000**

6 network kaç bit?

1 bit 2 network

2 bit 00, 01, 10, 11 4 network

3 bit 000,....., 111 8 network

149.12.0.0

**10010101.00001100.00000000.00000000 149.12.0.0**

**10010101.00001100.00100000.00000000 149.12.32.0**

**10010101.00001100.01000000.00000000 149.12.64.0**

**10010101.00001100.01100000.00000000 149.12.96.0**

**10010101.00001100.10000000.00000000 149.12.128.0**

**10010101.00001100.10100000.00000000 149.12.160.0**

**10010101.00001100.11000000.00000000 149.12.192.0**

**10010101.00001100.11100000.00000000 149.12.224.0**

**Host : 13 bit kaldı 2^13 - 2 8192 - 2: 8190**

**Network 1:**

**10010101.00001100.00000000.00000000 - 149.12.0.0 res.**

**10010101.00001100.00000000.00000001 - 149.12.0.1**

**10010101.00001100.00000000.00000010**

**10010101.00001100.00000000.00000011**

**.**

**.**

**.**

**.**

**10010101.00001100.00000011.00100000 - 149.12.3.32**

**10010101.00001100.00011111.11111111 - reserved b/c**

**Network 2:**

**10010101.00001100.00100000.00000000 149.12.32.0 rev.**

**10010101.00001100.00100000.00000001 149.12.32.1**

**10010101.00001100.00100000.00000010 149.12.32.2**

**.**

**.**

**.**

**10010101.00001100.00100011.00100000 149.12.35.32**

**10010101.00001100.00111111.11111111 149.12.63.255**

**10010101.00001100.00100000.00000001 149.12.32.1**

**Subnet mask : 11111111.11111111.11100000.00000000**

**255.255.224.0**

**149.12.32.1 255.255.224.0**

**149.12.32.2 255.255.224.0**

**149.12.32.2 /19**

**1 1 1 1 1 1 1 1**

**128 64 32 16 8 4 2 1 = 255**

**T T : T**

**T F : F**

**F T : F**

**F F :F**

**VLSM : Variable Length Subnet Mask**

149.12.0.0 /19

149.12.0.0 /21