

# IP Addresses

Soumis par CCNA

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- IP addresses = 4 bytes/32 bits = network part + host part

- IP classes

Class  
Range  
Diff.  
Nw bytes  
Ho bytes  
Network size  
Notation

A  
1-126  
-  
1  
3  
big  
/8

B  
128-191  
+127  
2  
2  
medium  
/16

C  
192-223  
+64  
3  
1  
small  
/32

D  
224-239  
+32  
-  
-  
multicast  
-

E  
240-255

+16  
-  
-  
testing  
-

- IP diagrams per class

A- class

B- class

C- class

- Classful address : follows the class rule (/8,/16,/24)
- Classless address : doesn't follow the class rule (--> subnetting)
  
- Loopback : 127.0.0.0 (used for TCP/IP connectivity check)
- Network ID : network part = network bits / host part = all bits at 0 [C class example : 192.168.1.0/24]
- Broadcast ID : network part = network bits / host part = all bits at 1 [C class example : 192.168.1.255]
- Netmask : networkpart = all bits at 1 / host part = all bits at 0 [C class example : 255.255.255.0]