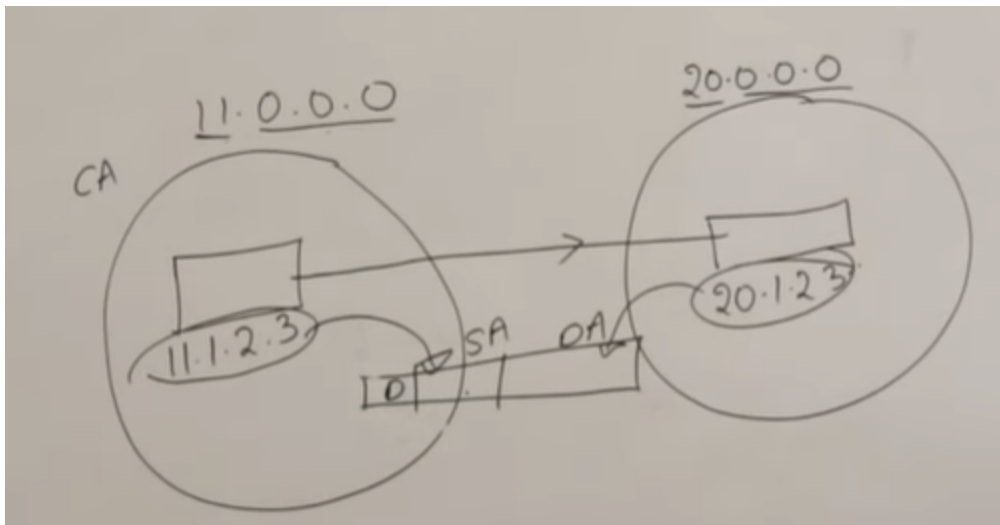


# Casting

**Unicasting:** Sending a packet from one host to another host

**Broadcasting:** Sending a packet from one host to many hosts

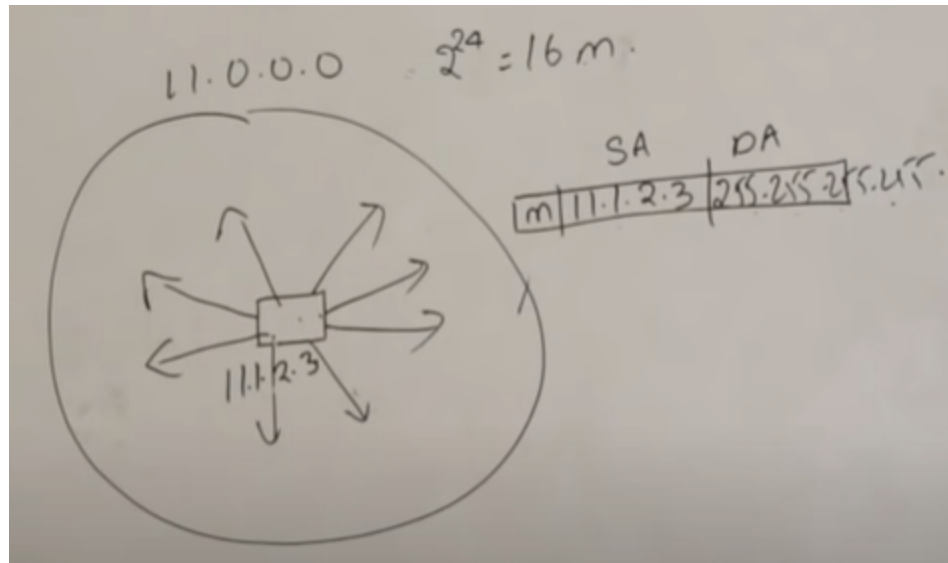
## Unicasting



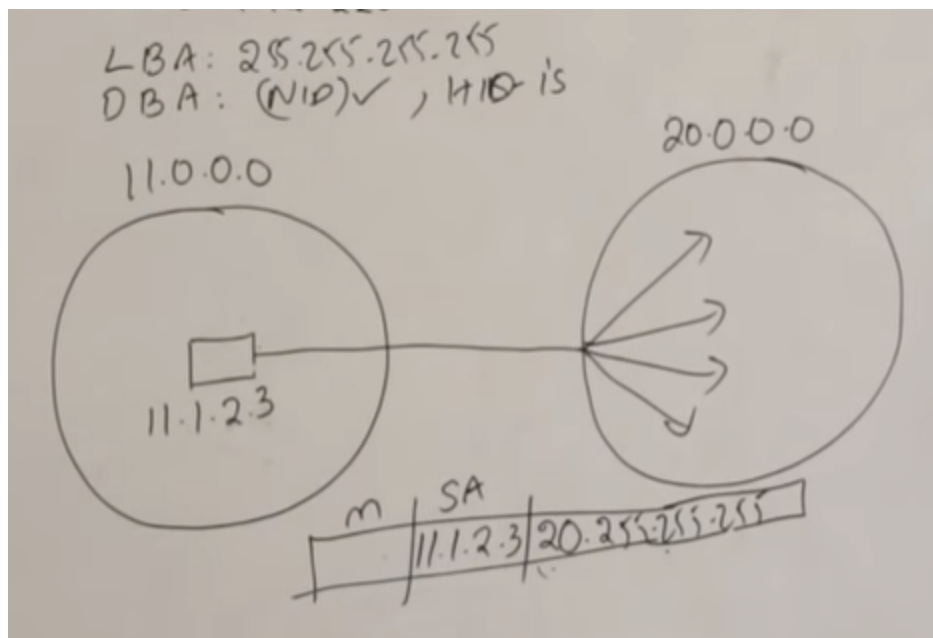
## Broadcasting

Limited Broadcasting: Packet sent to all the hosts in the same network.

Limited Broadcast Address: 255.255.255.255 (special address)



Directed Broadcasting: Packet sent to all the hosts in the some other network.



Special Addresses:

LBA: 255.255.255.255  
DBA: (NID)✓, HID is✓  
NID: NID✓, HID OS.

Number of Hosts per network = Number of IP Addresses possible per Network ID  
- 2

$$2^n - 2$$

$2^4 - 2$  Hosts  
 $2^6 - 2$  Hosts  
 $2^{16} - 2$  Hosts  
 $2^8 - 2$  Hosts

CA-1426 CB-128-191 CC-192-223

CA-1426 CB-128-191 CC-192-223

IP	NIP	DBA	LBA
<u>1.2.3.4</u>	1.0.0.0	1.255.255.255	255.255.255.255
<u>10.15.20.60</u>	10.0.0.0	10.255.255.255	255.255.255.255
<u>130.1.2.3</u>	130.1.0.0	130.1.255.255	"
<u>150.0.150.150</u>	150.0.0.0	150.0.255.255	"
<u>200.1.10.100</u>	200.1.10.0	200.1.10.255	"
<u>220.15.1.10</u>	220.15.1.0	220.15.1.255	"
<u>250.0.1.2</u>	X	X	X
<u>300.1.2.3</u>			