## Basic Concepts

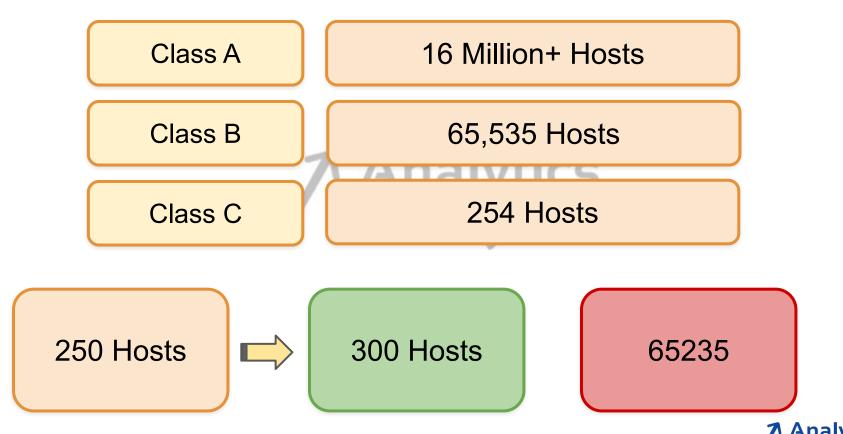


## CIDR Classless Inter-Domain Routing



It is an IP addressing scheme that improves the allocation of IP addresses and replaces the old system based on classes A, B, and C.

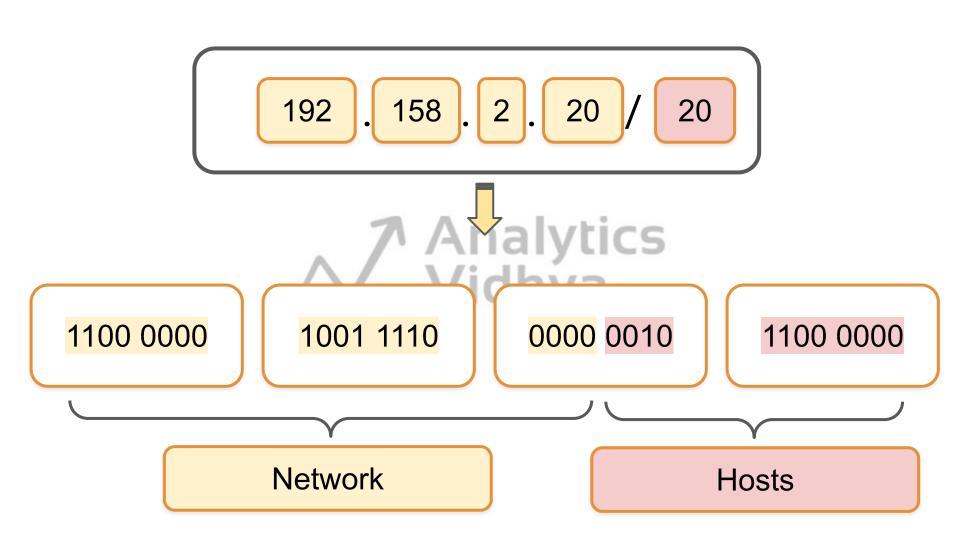


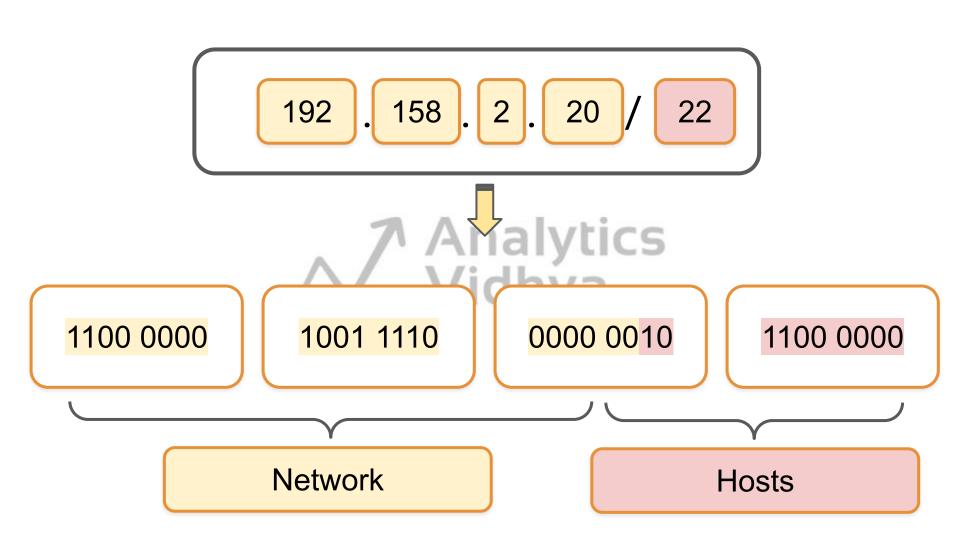




Number of bits of network address 192 158 **IP Address** 





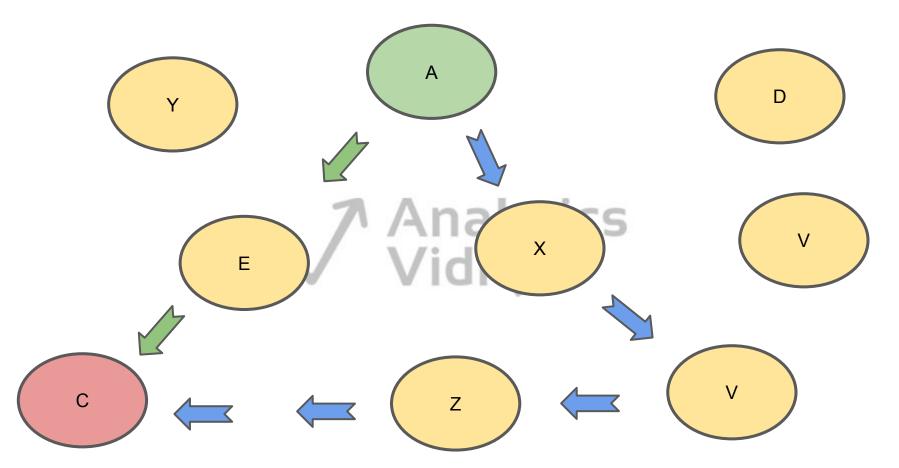


## Route Tables 1C5



Route tables contains the set of rules and necessary information to forward a packet along the best path toward its destination







1	00 00 00 e0 Microsoft	Loopback Interfa	ace 1	ller
Pv4 Route Table				
	================	==========	=========	======
ctive Routes:				
etwork Destinatio	n Netmask	Gateway	Interface	Metric
.0.0.0.0	0.0.0.0	$10.1.0.\overline{1}$	10.1.0.177	11
10.1.0.0	255.255.0.0	On-link	10.1.0.177	260
10.1.0.177	255.255.255.255	On-link	10.1.0.177	260
10.1.255.255	255.255.255.255	On-link	10.1.0.177	260
127.0.0.0	255.0.0.0	On-link	127.0.0.1	30
127.0.0.1	255.255.255.255	On-link	127.0.0.1	30
127.255.255.255	255.255.255.255	On-link	127.0.0.1	300
224.0.0.0	240.0.0.0	On-link	127.0.0.1	30
224.0.0.0	240.0.0.0	On-link	10.1.0.177	26
255.255.255.255	255.255.255.255	On-link	127.0.0.1	30
255.255.255.255	255.255.255.255	On-link	10.1.0.177	260



## Thank You !!tics idhya

