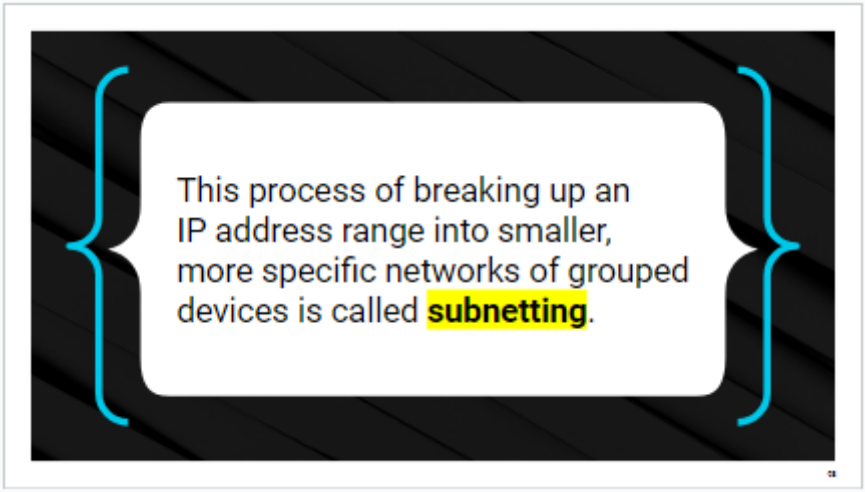
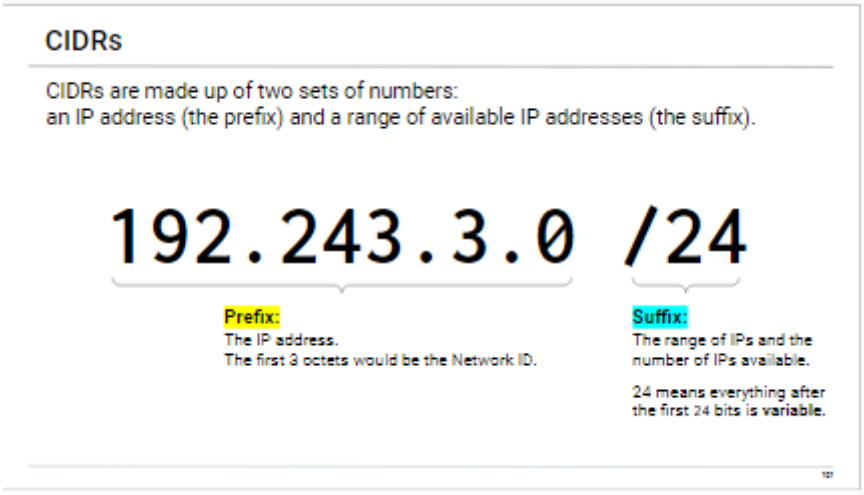
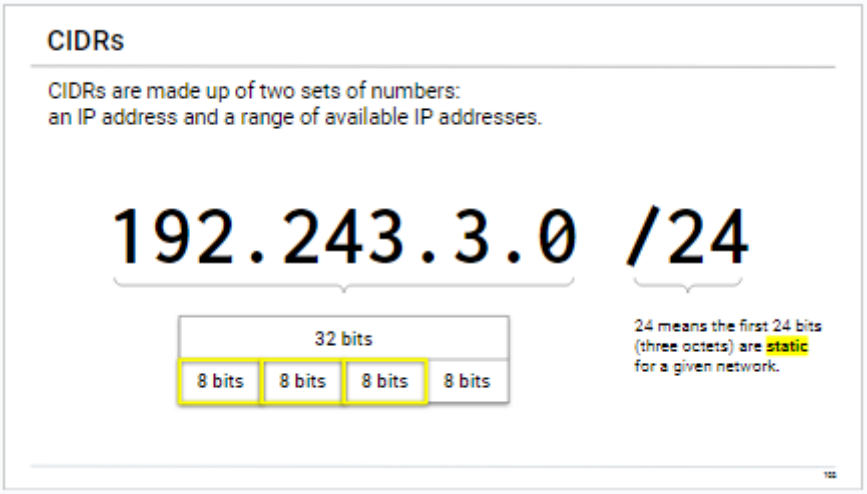

This process of breaking up an IP address range into smaller, more specific networks of grouped devices is called subnetting.

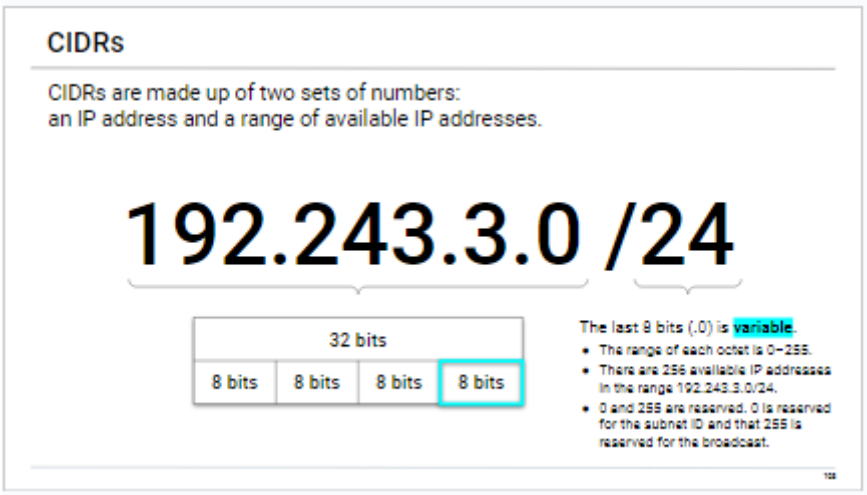
## CIDR

To subnet, we don't have to list and assign IP addresses one by one.
Instead, we use a format known as Classless Inter-Domain Routing (CIDR).


CIDRs
CIDRs are made up of two sets of numbers:
an IP address (the prefix) and a range of available IP addresses (the suffix).
192.243.3.0
/24
Prefix:
The IP address.
The first 3 octets would be the Network ID.
Suffix:
The range of IPs and the number of IPs available.
24 means everything after the first 24 bits is variable.




Suffix denotes static bits in IP Addresses




Last 9 bits are variable