

Address Types	
Inside Local	actual address assigned to an inside host
Inside Global	Inside address seen from the outside
Outside Local	Actual address assigned to an outside host
Outside Global	Outside address seen from the inside

4 simple steps to NAT	
1	Define inside and outside interfaces
2	Define inside ACL (if required)
3	Define outside pool (if required)
4	Start NAT

NAT Keywords	
NAT Pool	IP address Pool used in inside global or outside local addresses for translations
Pool Name	This is the name of pool. We can choose any descriptive name here.
Start IP Address	First IP address from the IP range which is available for translation.
End IP Address	Last IP address from the IP range which is available for translation
Subnet Mask	Subnet mask of IP range.
Overload	Maps many Private IP addresses to a single IP address using ports

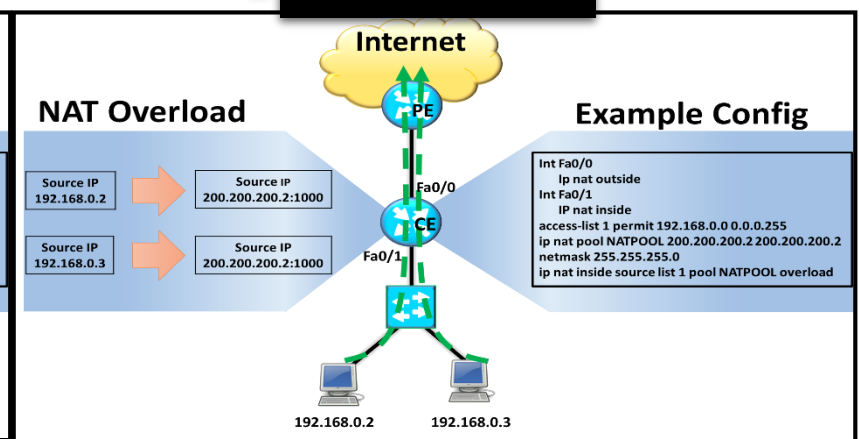
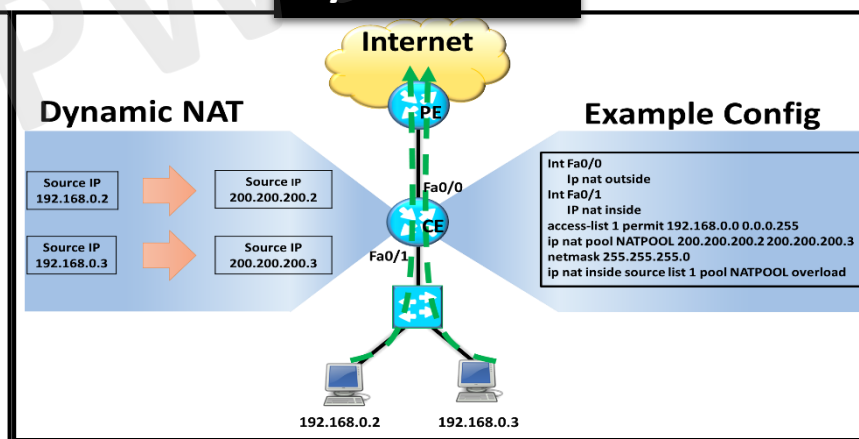
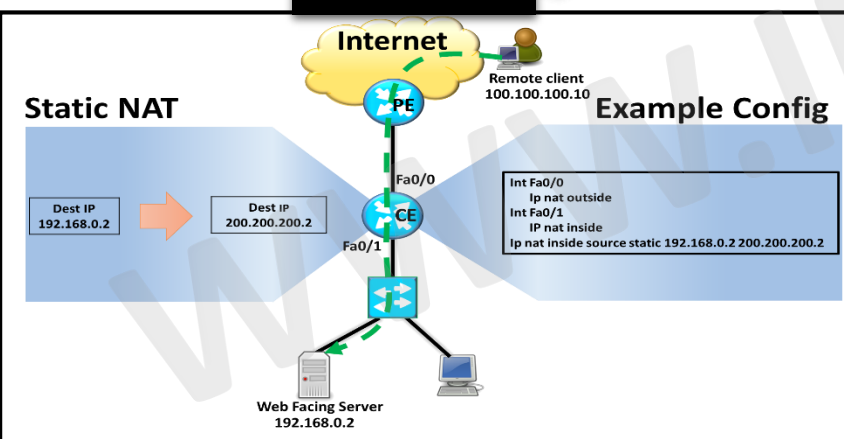
Troubleshooting and Verification	
1	show ip nat translations
2	Show run include nat
3	show ip nat statistics
4	clear ip nat translations



Static NAT

Dynamic NAT

NAT Overload



Static NAT

Dynamic NAT

NAT Overload (PAT)

One-to-one mapping between local and global addresses

Mapping from a global pool (Multiple Global IPs)

Many-to-one (one real Internet IP to many internal, Port Address Translation)