

Chapter 6 Network Address Translation (NAT)



Network Address Translation

- Modification of source or destination IP address
- Needed by networks using RFC 1918
 address scheme to route traffic to Internet
- Provides security by hiding a computer's real IP address

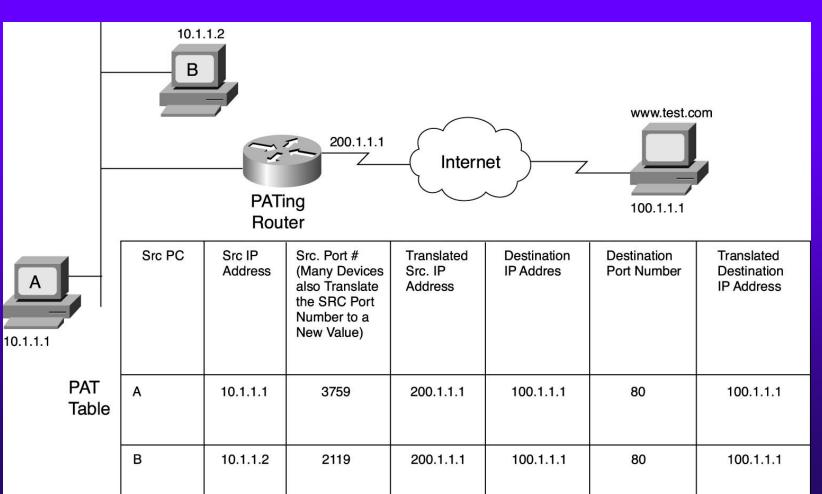


Port Address Translation (PAT)

- a.k.a Overload NAT
- reduces public IP address consumption
- Many private IP addresses are translated to one public IP address



Port Address Translation





Security Benefits of NAT and PAT

- ◆ Router cannot forward packets from Internet to an internal network unless a NAT/PAT entry has been created in the router's NAT table.
- ♦ In general, any connections not initiated from the inside are not allowed through the PAT device