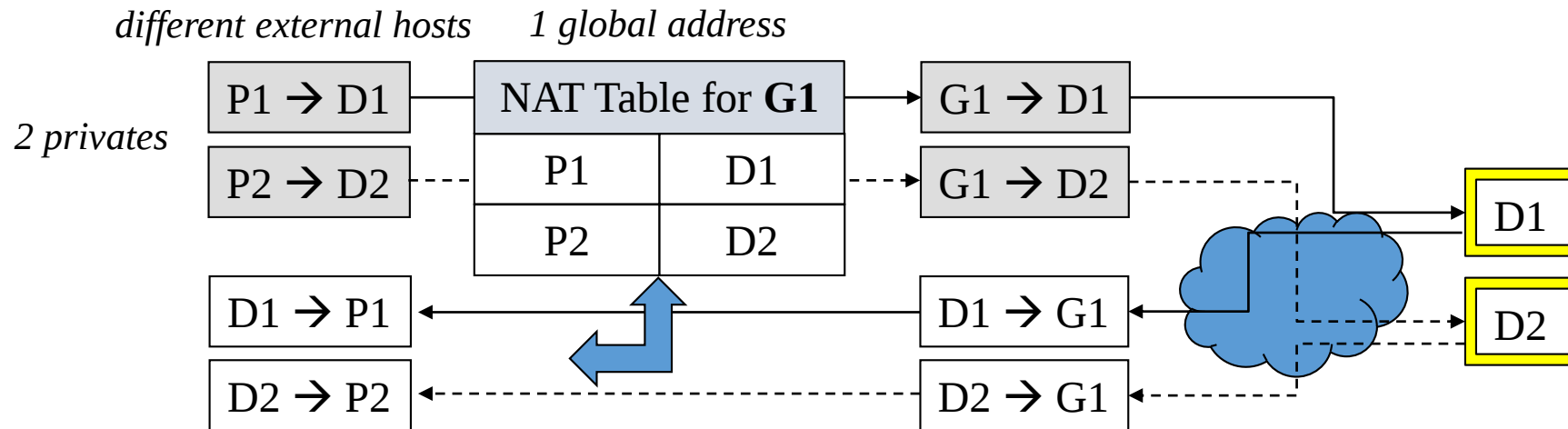
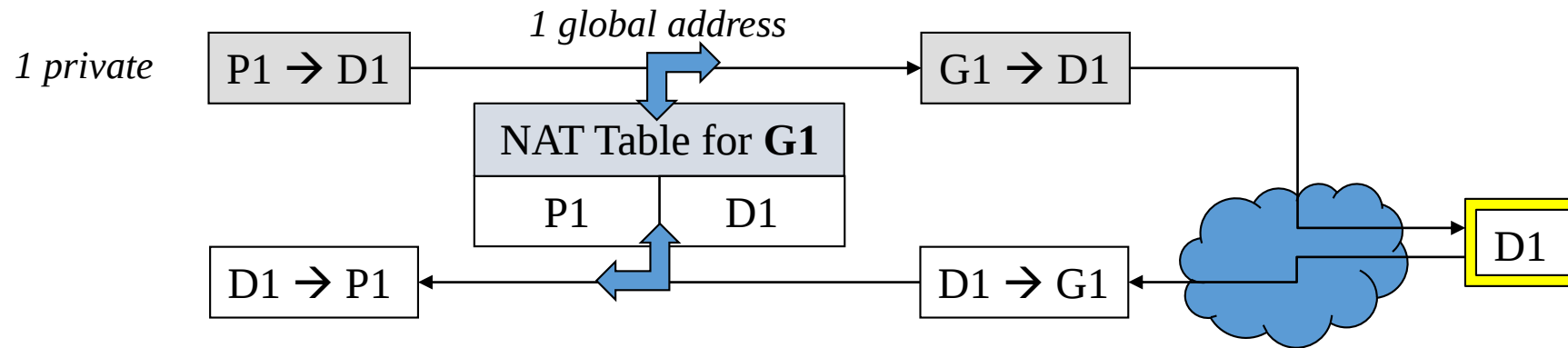
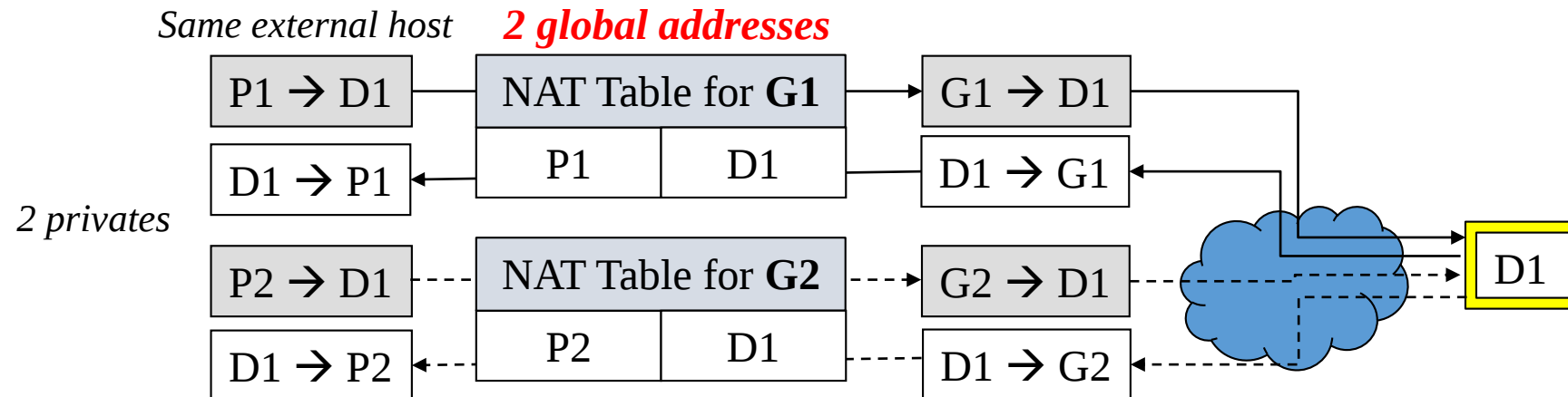
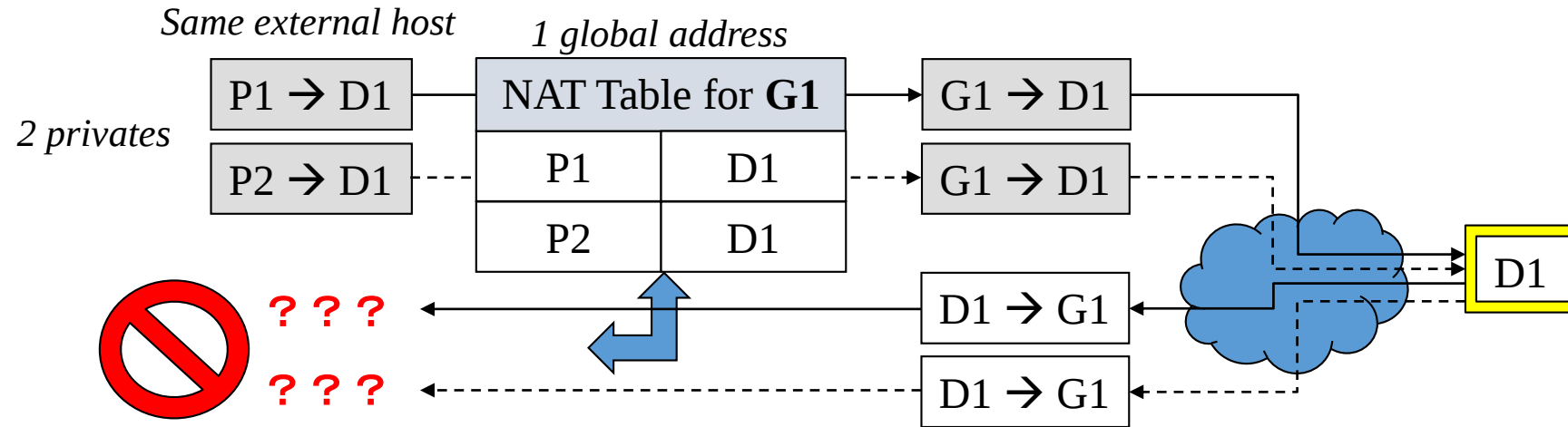


NAT Table with only IP addresses (1)



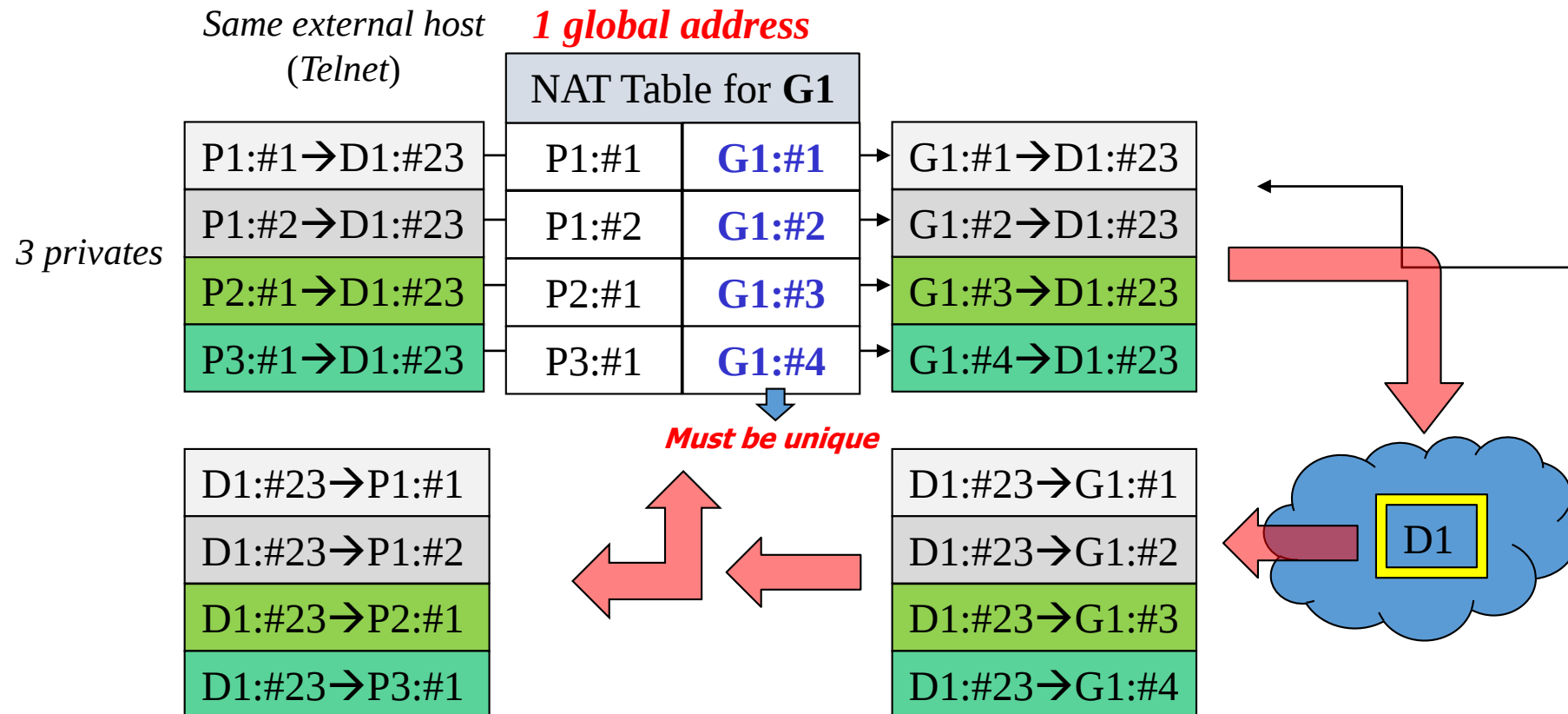
NAT Table with only IP addresses (2)



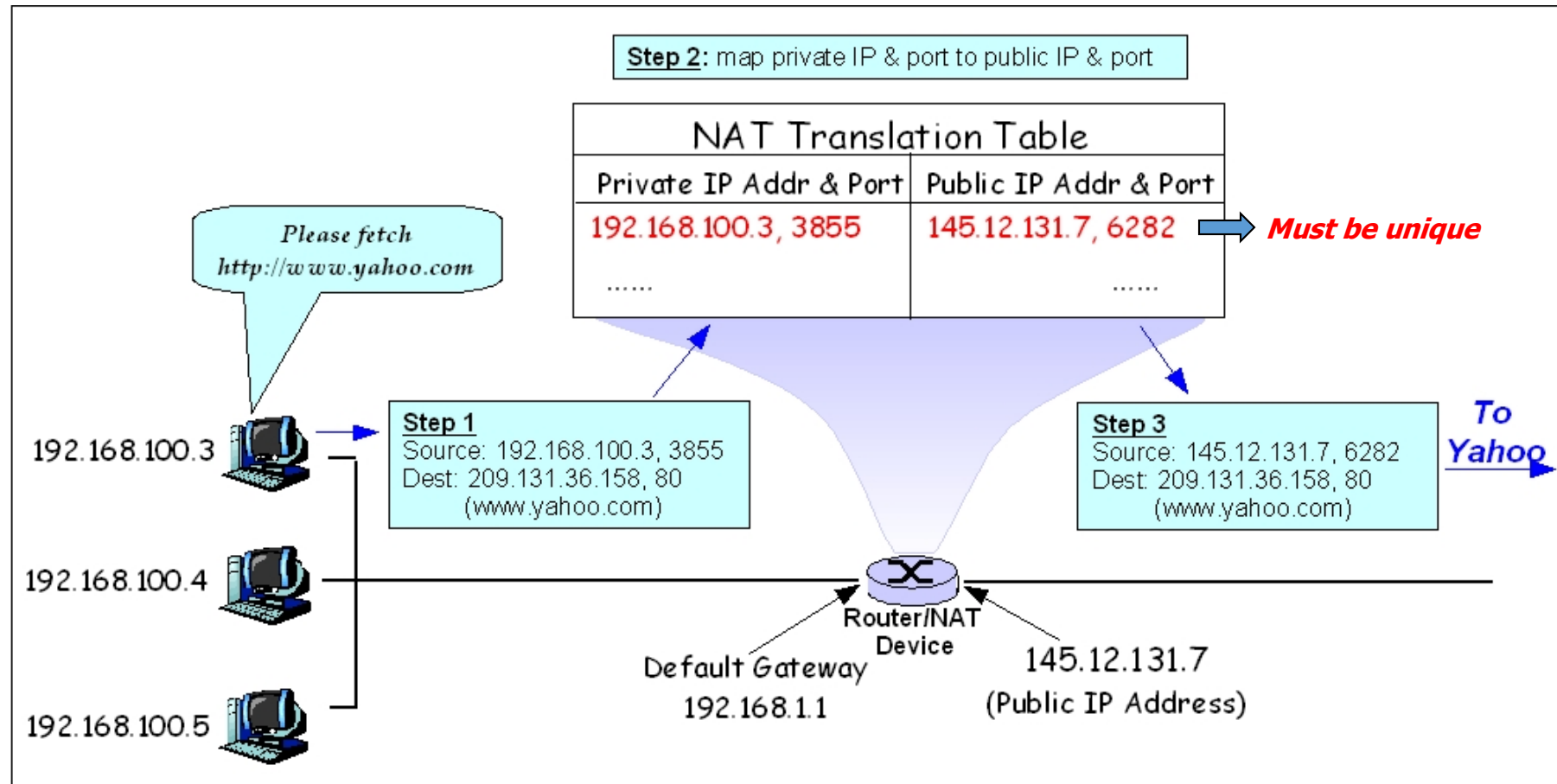
NAT Table with only IP addresses (3)

- If using only one global address
 - Only one private-network host to access the same external host
- If using a pool of global addresses (e.g. 4 addr)
 - No more than 4 connections can be made to the same destination
 - No private-network host can access two external server programs (e.g. HTTP and TELNET) at the same external host at the same time ???
 - Two private-network hosts cannot access the same external server program at the same time (by using the same global address)

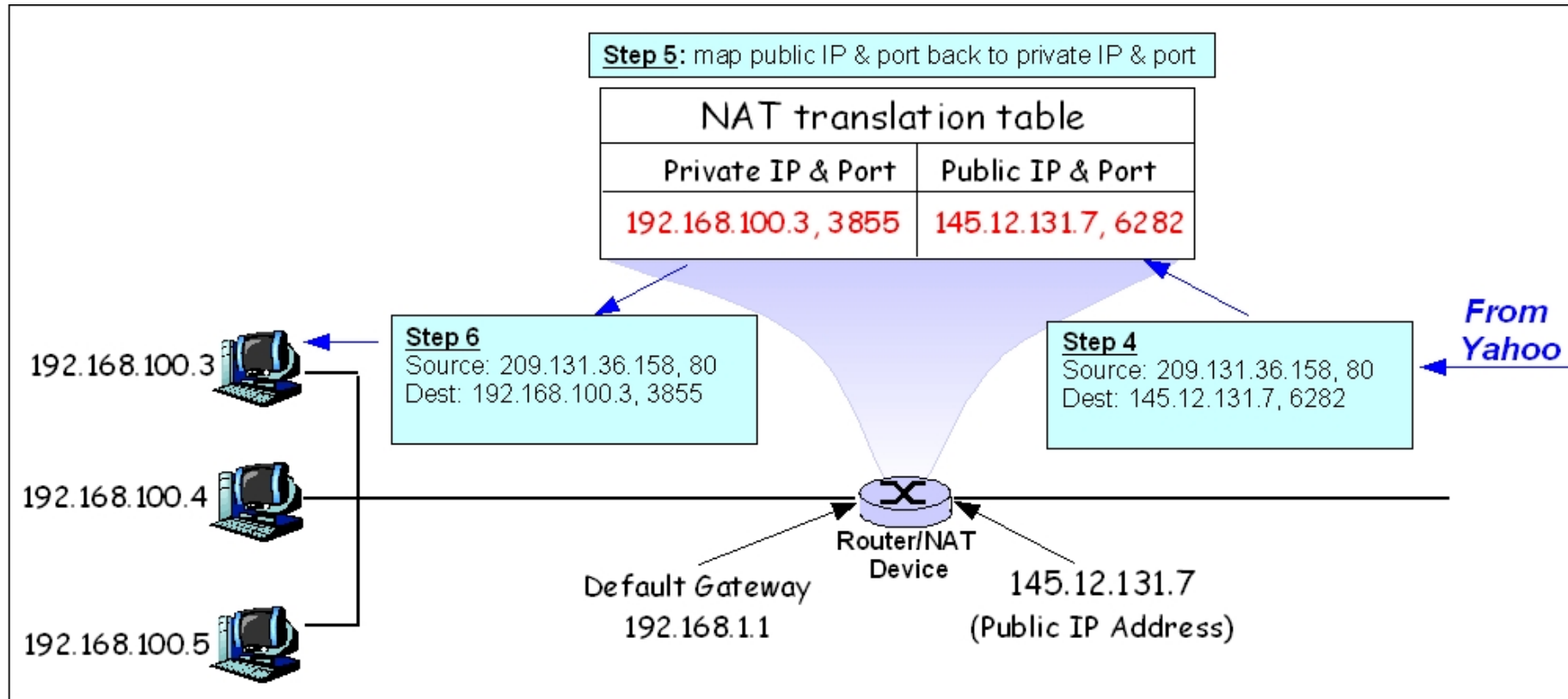
NAT Table with IP address & Port # (1)



NAT Table with IP address & Port # (2)



NAT Table with IP address & Port # (3)



NAT Table with IP address & Port # (4)

- NAT Table in the textbook
 - This may not be the best way to understand NAT

Server

<i>Private Address</i>	<i>Private Port</i>	<i>External Address</i>	<i>External Port</i>	<i>Transport Protocol</i>
172.18.3.1	1400	25.8.3.2	80	TCP
172.18.3.2	1401	25.8.3.2	80	TCP
...	...	...	...	...



Must be unique

***Otherwise reassign a new private port and
cache the mapping (the new port --> the old port)***