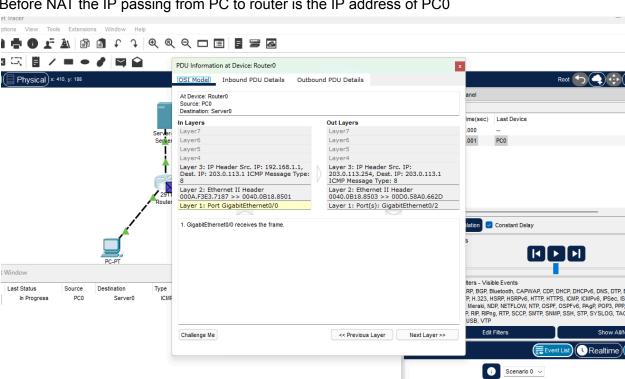
NAT (Network Address Translation) is a process where the router translates private IP addresses (like 192.168.1.1) to a public IP address when traffic leaves the local network to access the internet. This is typically done using PAT (Port Address Translation), a form of NAT where the router also maps ports to keep track of multiple devices.



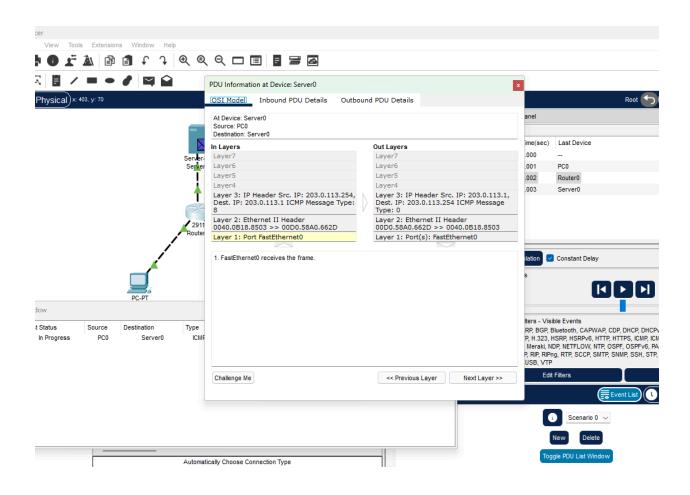
New Delete

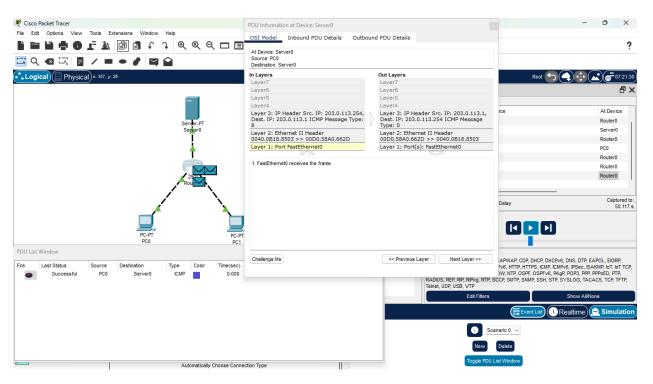
Before NAT the IP passing from PC to router is the IP address of PC0

But while passing router to server the IP is translated and passed.

Before NAT: The source IP is the private IP of the PC (192.168.1.1 for PC0).

After NAT: The source IP is the public IP address assigned to the router's external (internet-facing) interface.





By checking the packets , we can verify in the simulation mode. And also through passing command in the router CLI

```
Router#show ip nat translations
Pro Inside global Inside local Outside local Outside global icmp 203.0.113.254:20 192.168.1.1:20 203.0.113.1:20 203.0.113.1:20
```

