

Vidyavardhini's College of Engineering and Technology Department of Artificial Intelligence & Data Science

Experiment 9

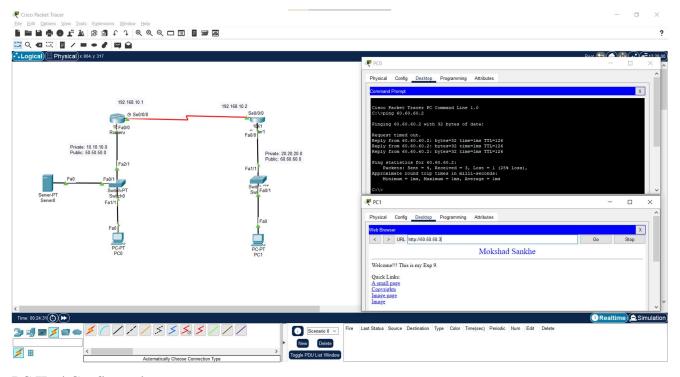
Aim: To configure and verify Static NAT translation

Theory:

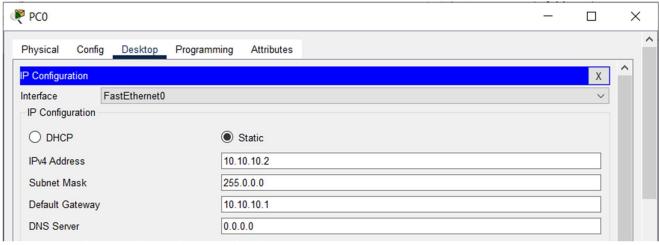
Network address translation (NAT) is a method of mapping an IP address space into another by modifying network address information in the IP header of packets while they are in transit across a traffic routing device. The technique was originally used to bypass the need to assign a new address to every host when a network was moved, or when the upstream Internet service provider was replaced, but could not route the networks address space. Create a network topology as shown below in Cisco packet tracer.

Output:

Main:



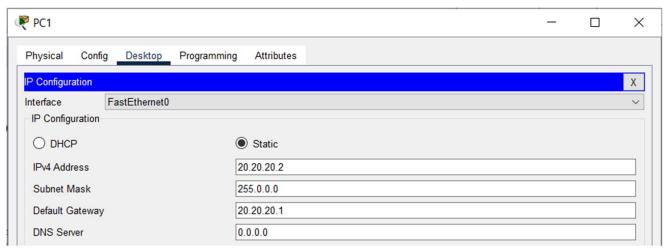
PC IPv4 Configuration:



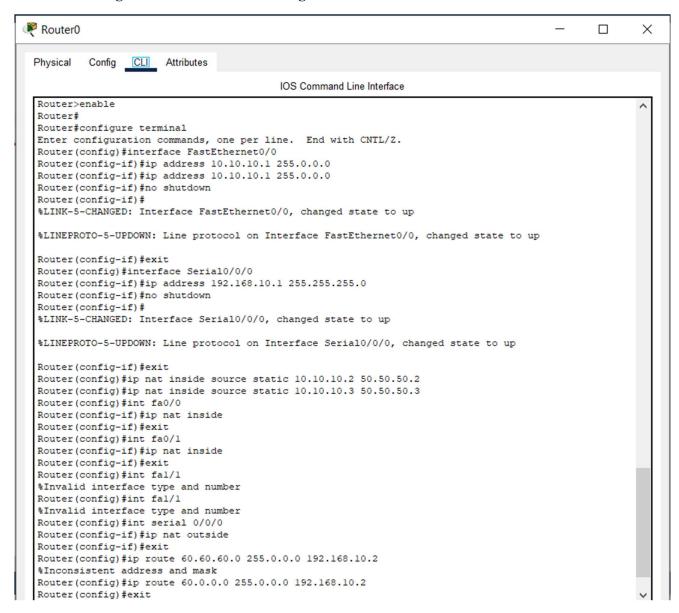
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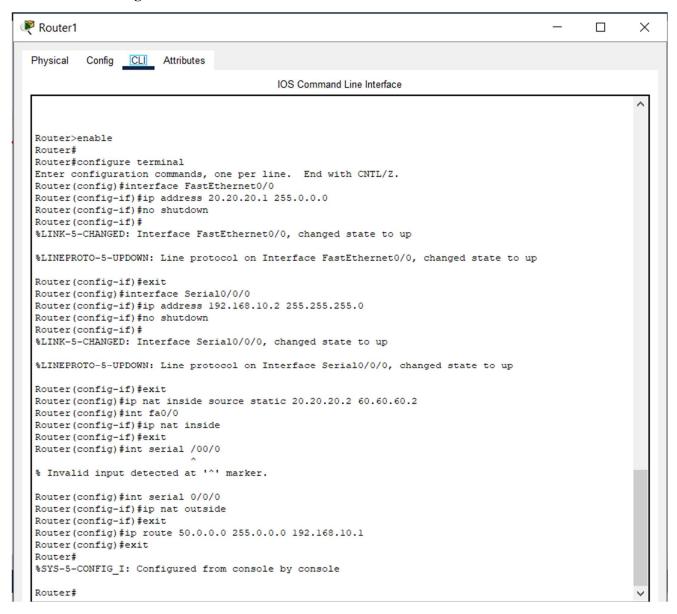
PC1 IPv4 Configuration: Router0 CLI Configuration:



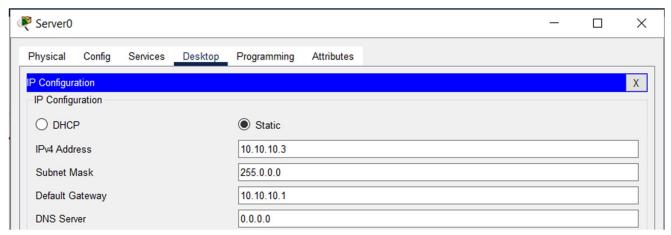


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Router1 CLI Configuration:



Server Configuration:



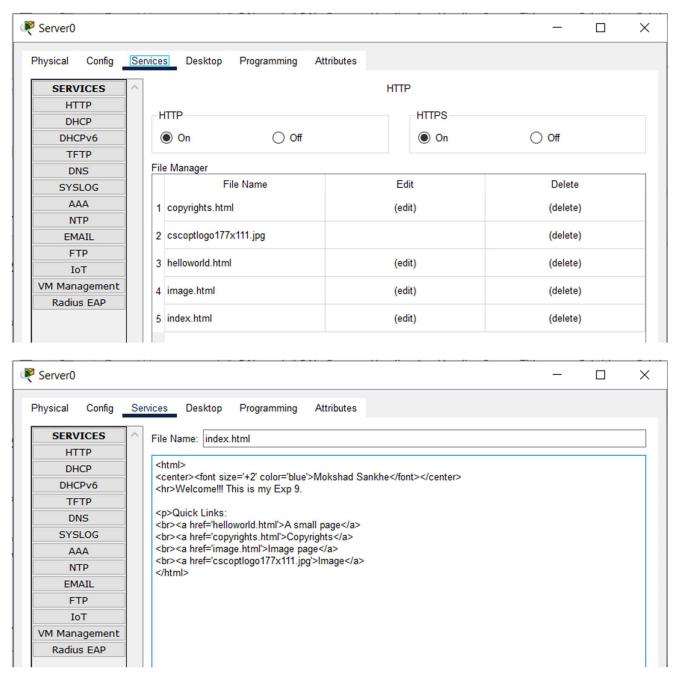
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Server HTTP Service:



Conclusion: Network Address Translation is configured on routers in a network and when it is enabled the IP address of the actual end device could not be traced.

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