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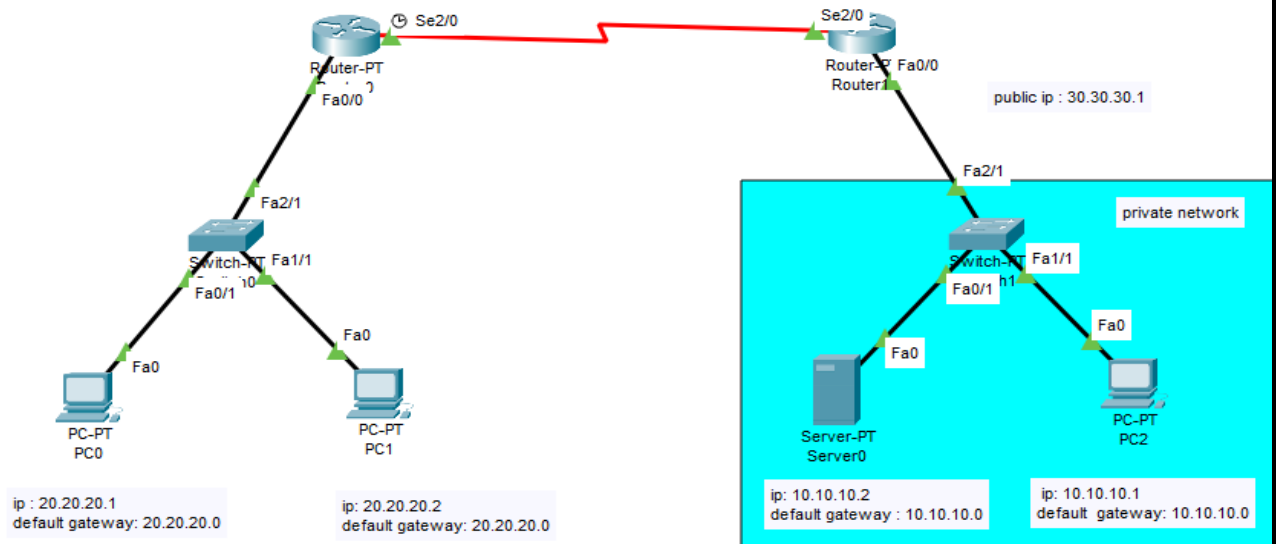
PLACEMENT EMPOWERMENT PROGRAM

TOPIC: STATIC NETWORK ADDRESS TRANSLATION



INTRODUCTION: Network Address Translation (NAT) is a networking process used to modify the IP address information in packet headers as they pass through a router or firewall. It allows devices on a private network to communicate with external public networks (like the internet) using a single public IP address or a small pool of addresses. NAT helps in conserving public IP addresses and enhances security by hiding internal IP addresses from external networks.

NETWORK DESIGN:



KEY COMPONENTS:

SWITCH , ROUTER, SERVER, PCs

CONFIGURATION COMMANDS:

```
Router(config)#ip nat inside source static 10.10.10.1 30.30.30.1
Router(config)#ip nat inside source static 10.10.10.2 30.30.30.1
Router(config)#int f0/0
Router(config-if)#ip nat inside
Router(config-if)#int s2/0
Router(config-if)#ip nat outside
Router(config-if)#exit
```



DESIGNED BY:

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YEAR: 2023-2027

DEPARTMENT: ADS

