

To construct simple LAN and understand the concept and operation of Address Resolution Protocol (ARP)

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Date: Page:

### ARP

Aim → To construct the simple LAN & understand the concept & equation of Operation of address resolution protocol.

Aim → Construct the Simple LAN

Topology →

```

graph TD
    Switch --- PC0
    Switch --- PC1
    Switch --- PC2
    Switch --- PC3
    Switch --- Server
    subgraph PCs
        PC0[PC0]
        PC1[PC1]
        PC2[PC2]
        PC3[PC3]
    end
    subgraph Server
        Server[Server 1]
    end
    style PC0 fill:#fff,stroke:#000
    style PC1 fill:#fff,stroke:#000
    style PC2 fill:#fff,stroke:#000
    style PC3 fill:#fff,stroke:#000
    style Server fill:#fff,stroke:#000
  
```

PC0: 10.0.0.1, PC1: 10.0.0.2, PC2: 10.0.0.3, PC3: 10.0.0.4, Server 1: 10.0.0.5

ARP Tables →

ARP table for PC0

IP address	Hardware Address	Interface
10.0.0.4	0009.7cd2.A2...	FastEthernet0

ARP table for PC1

IP address	Hardware Address	Interface
10.0.0.1	00E0.8F.DC.76...	FastEthernet0
10.0.0.5	0000.0CAB.B0...	FastEthernet0

ARP table for PC2

IP address	Hardware Address	Interface
10.0.0.4	0009.7CD2.A25A	FastEthernet0

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Request map the name of IP address.

welcome to CN lab:

Quick link:

Small page:

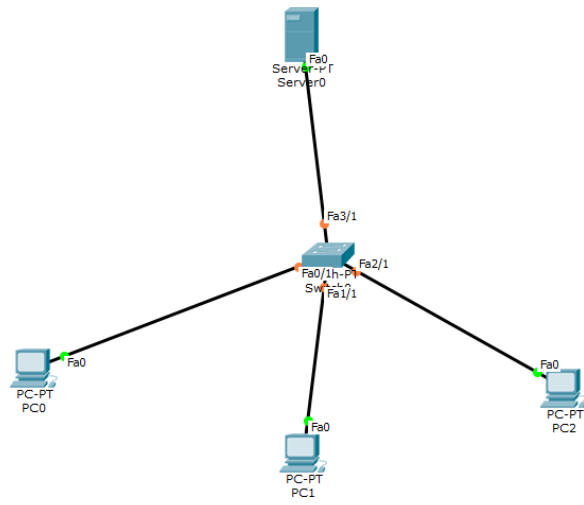
copy right?

Image page:

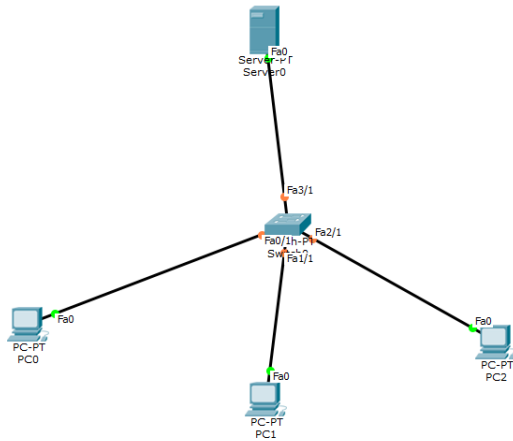
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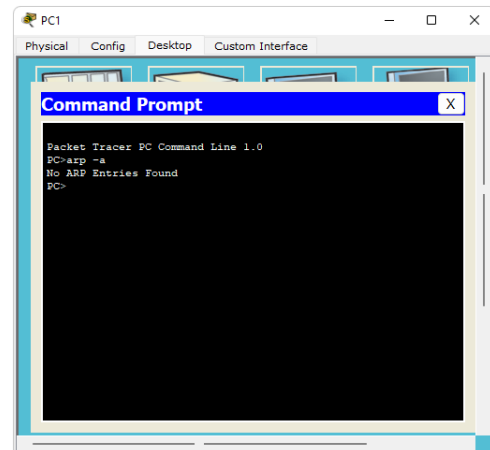
## Topology:



Output:

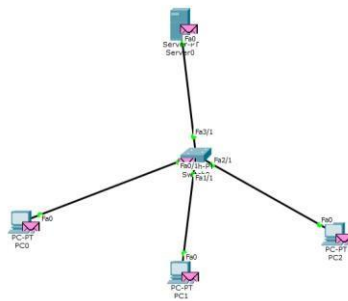


ARP Table for PC0		
IP Address	Hardware Address	Interface



IP Address	Hardware Address	Fast
10.0.0.1	000A.41E0.130B	Fast

IP Address	Hardware Address



IP Address	Hardware Address
10.0.0.3	00D0.D337.698E

ARP Table for Switch0	
IP Address	Hardware Address

[illegible]