



Ganpat University

॥ विद्यया समाजोत्कर्षः ॥

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PRACTICAL 01

❖ **AIM :** To verify the role of Address Resolution Protocol (ARP) in a network of an organization.

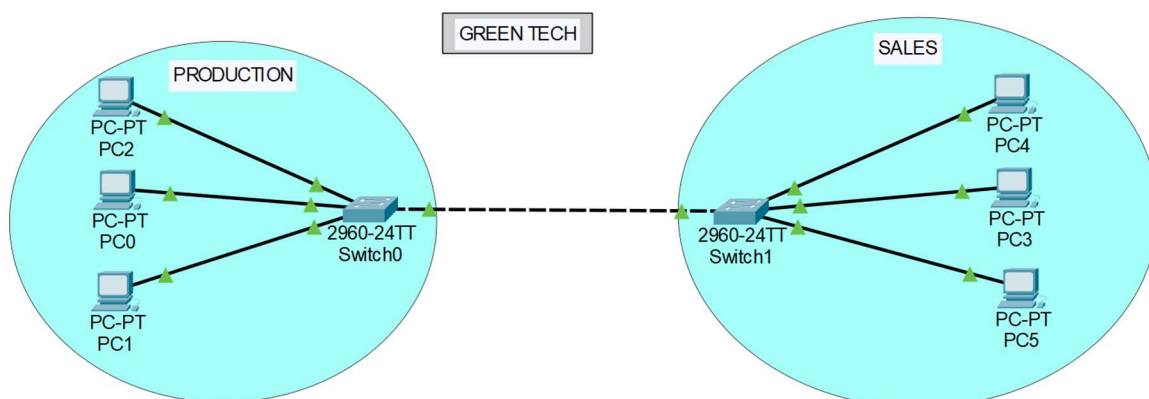
❖ **Scenario :**

An organization named Green Tech

Solution contains 2 departments : Production and Sales in the same premises.

Each department has 3 users. Departments are connected with each other using switches. Report the changes in ARP table when any user from production department communicates with any user of sales department.

✓ **Packet Tracer File :**



✓ ARP table before Packet sending from pc0 to pc5 :-

The screenshot shows a network topology with two switches, Switch0 and Switch1, connected by a dashed line. Switch0 is in the 'PRODUCTION' domain and has three PCs connected: PC-PT PC0, PC-PT PC1, and PC-PT PC2. Switch1 is in the 'SALES' domain and has three PCs connected: PC-PT PC3, PC-PT PC4, and PC-PT PC5. The ARP tables for PC0 and PC5 are displayed.

ARP Table for PC0

IP Address	Hardware Address	Interface
198.16...	0004.9A74.5...	FastEthernet0

ARP Table for PC5

IP Address	Hardware Address	Interface
198.168.1.1	0010.1129.3691	FastEther...

The Simulation Panel on the right shows the Event List with a single entry at 0.000 seconds: PC0 to PC5 via Switch0, Type ICMP. The Play Controls show the simulation is running.

✓ ARP table after Packet send successfully :-

The screenshot shows the same network topology as before. The ARP tables for PC0 and PC5 are displayed, showing updated information.

ARP Table for PC0

IP Address	Hardware Address	Interface
198.168.1.6	0004.9A74.5051	FastEthernet0

ARP Table for PC5

IP Address	Hardware Address	Interface
198.168.1.1	0010.1129.3691	FastEthernet0

The Simulation Panel on the right shows the Event List with multiple entries, indicating successful packet transmission. The Play Controls show the simulation is running.