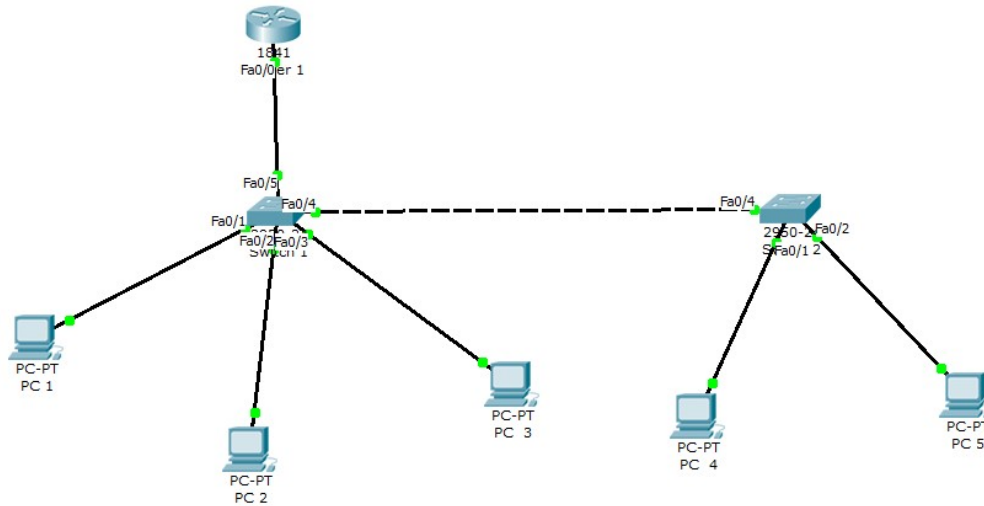


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**Computer Networks**  
**2<sup>nd</sup> Year, 1<sup>st</sup> Semester**

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**VLAN Configurations (with VTP)**



1. Assign IP addresses for the PCs.  
PC1 – 192.168.100.5  
PC2 – 192.168.50.5  
PC3 – 192.168.150.5  
PC4 – 192.168.100.6  
PC5 – 192.168.50.6
2. Create 3 VLANs in Switch 1 – IT, HR, and SALES (VLAN IDs 100, 50, 150 respectively).  
Propagate VLAN details to switch 2 via VTP.
3. Assign ports to VLANs.  
Switch1 Fa0/1 – IT  
Switch1 Fa0/2 – HR  
Switch1 Fa0/3 – SALES  
Switch2 Fa0/1 – IT  
Switch2 Fa0/2 – HR
4. Assign IP addresses for the router's sub-interfaces.  
Fa0/0.100 – 192.168.100.1 255.255.255.0  
Fa0/0.50 – 192.168.50.1 255.255.255.0  
Fa0/0.150 – 192.168.150.1 255.255.255.0
5. Display the VLAN and VLAN membership information.
6. Make necessary configuration for the PCs, Router and Switches.
7. Verify the connectivity.