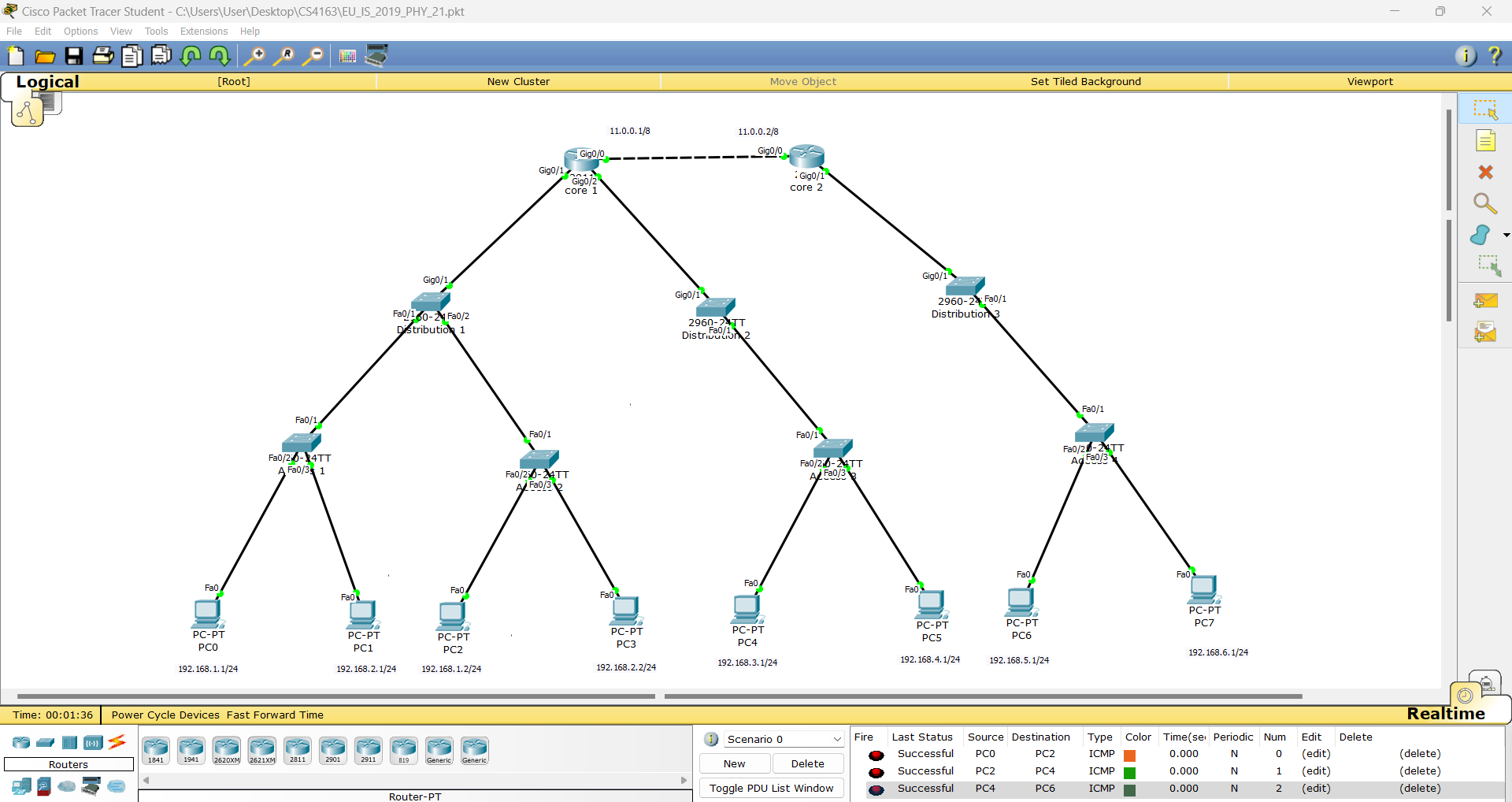
**TASK -02**

IP Addressing and VLAN Segmentation

This describes the configuration of a segmented network using VLANs and proper IP addressing. The purpose is to separate network traffic by department to improve security, control, and efficiency.

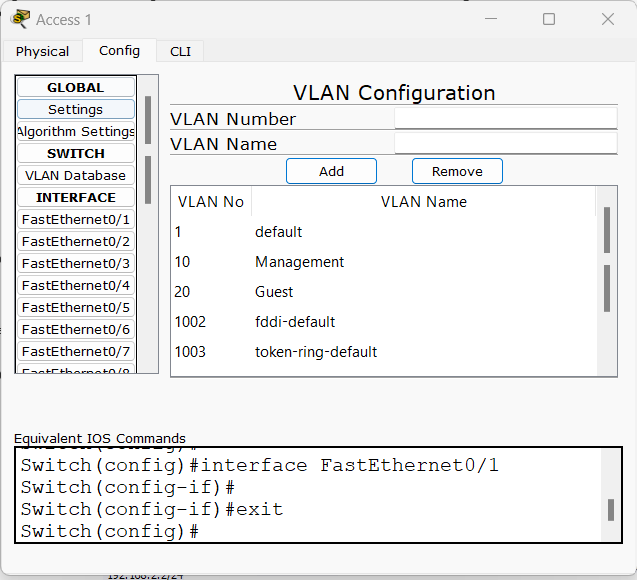
Example:

* VLAN 10 – Management
* VLAN 20 – Guest

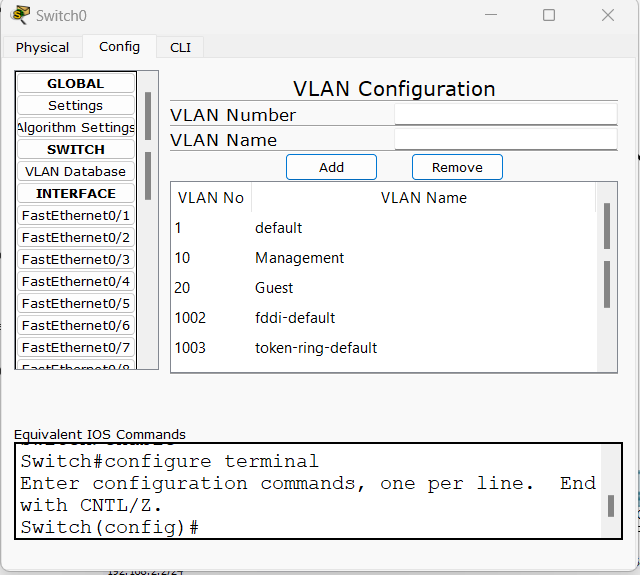


|  |  |  |  |
| --- | --- | --- | --- |
| VLAN Name | VLAN ID | Subnet | Gateway |
| Management | 10 | 192.168.1.0/24 | 192.168.1.254 |
| Management | 10 | 192.168.3.0/24 | 192.168.3.254 |
| Guest | 20 | 192.168.2.0/24 | 192.168.2.254 |
| Guest | 20 | 192.168.4.0/24 | 192.168.4.254 |
| Account | 30 | 192.168.5.0/24 | 192.168.5.254 |
| CustomerService | 40 | 192.168.6.0/24 | 192.168.6.254 |

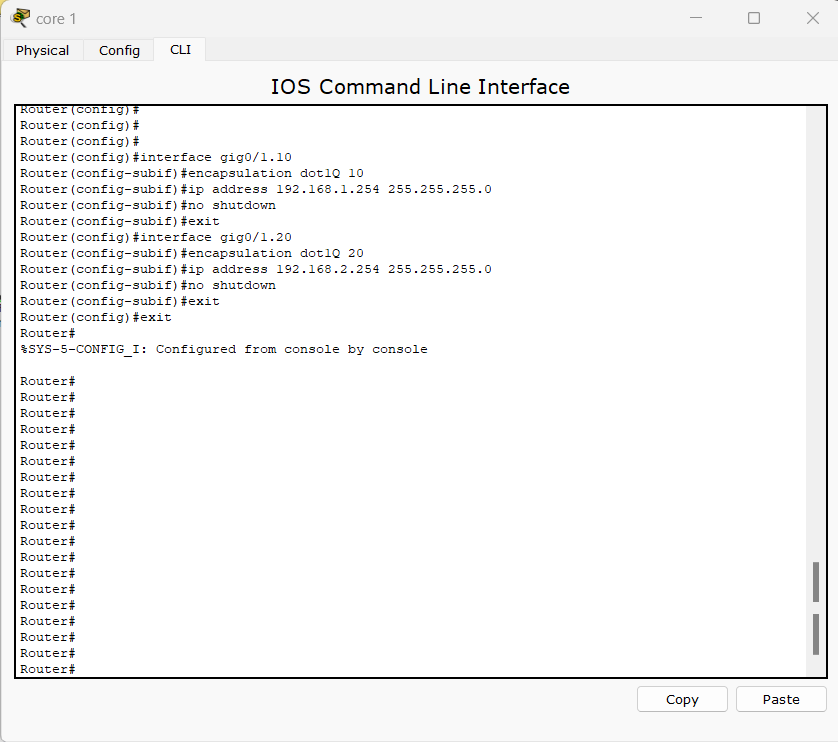
Access layer (switch 1-config)



Distribution layer (Switch 1-config)



Multilayer (Router 1-config)



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