

**Usman Institute of Technology**

**Department of Computer Science Fall 2022**

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Course: DCCN (CS-222)

Course Instructor: Engr. Fauzan Saeed

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# Lab Tasks:

1. What is the difference between 29xx switch series and 35xx/36xx switch. What benefit the later series will give explore using Packet Tracer

The main difference between the 29xx and 35xx/36xx series switches is the level of performance and feature support they offer. The 35xx and 36xx series are designed for enterprise-level networks and offer a higher level of capabilities, while the 29xx series is more suitable for small and medium-sized businesses.

In terms of using Packet Tracer, the 35xx and 36xx series switches may offer more advanced features and capabilities that can be explored and simulated in the software. For example, you may be able to simulate the use of advanced security features such as access control lists

1. Implement the scenario given below on packet tracer and show the connectivity between PC’s by using PING Command.

Diagram

Description automatically generated

## Config of Switches:

Switch0:

Table

Description automatically generated

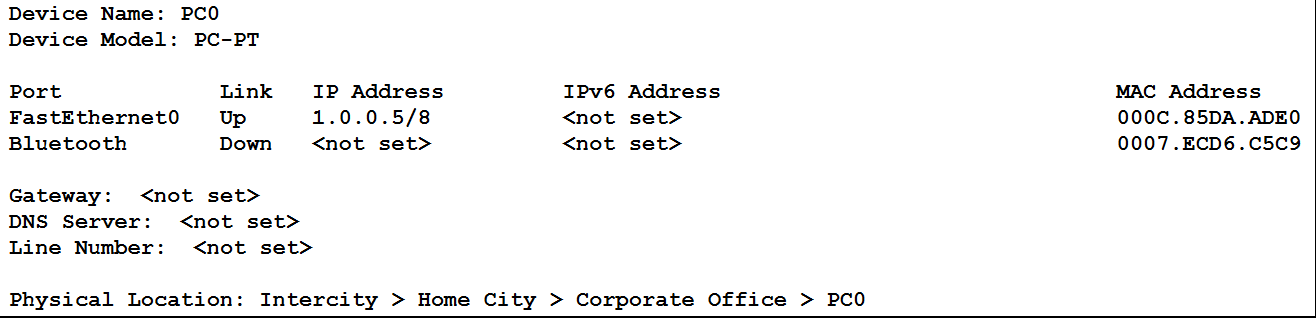
Switch1:

Table

Description automatically generated

## Configuration of PC’s:

PC0:



PC1:

Text

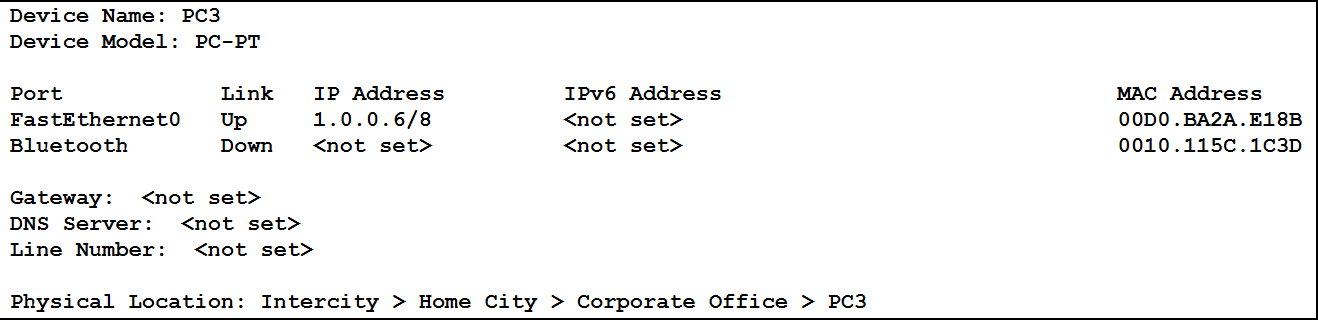
Description automatically generated

PC2:

Text

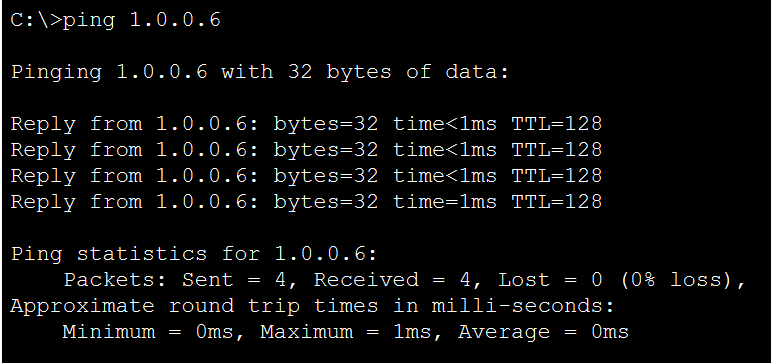
Description automatically generated

PC3:

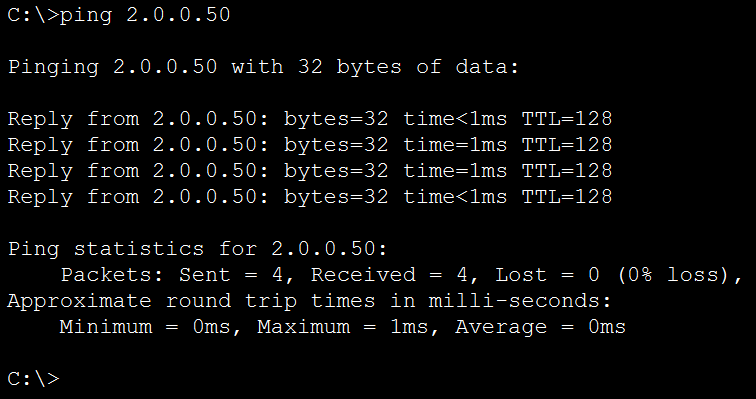


## Testing Connectivity:

From PC0 to PC3:



From PC1 to PC2:



From PC2 to PC1:

Calendar

Description automatically generated

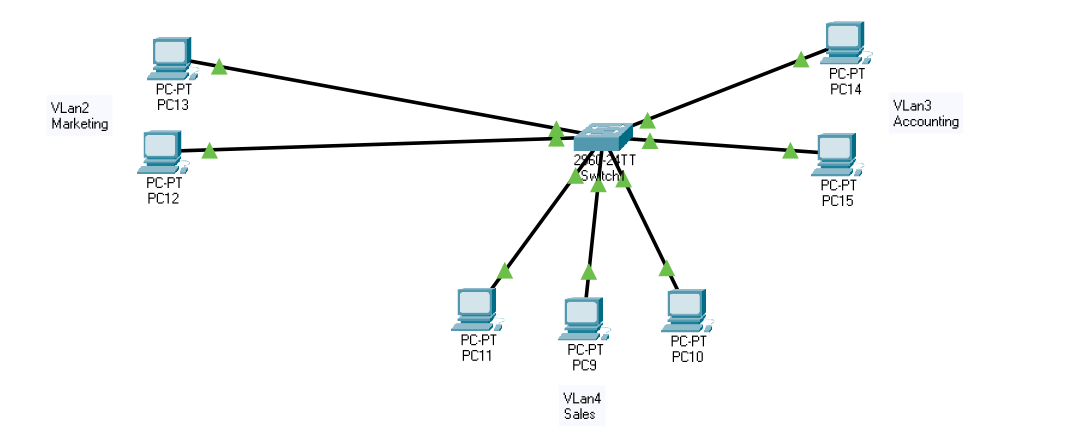
From PC3 to PC0:

Calendar

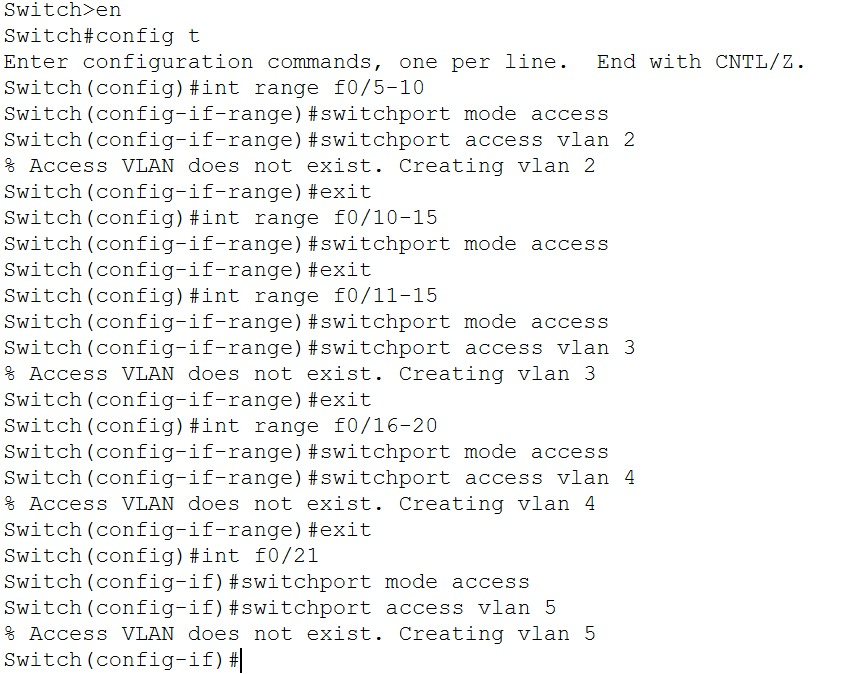
Description automatically generated

1. Use Packet Tracer to complete the following network shown below by connecting another switch SW1 and create VLANs in both switches and assign VLANs to the ports: VLAN 2 to FastEthernet Port 5-10 VLAN 3 to FastEthernet Port 11-15 VLAN 4 to FastEthernet Port 16-20 VLAN 5 to FastEthernet Port 21

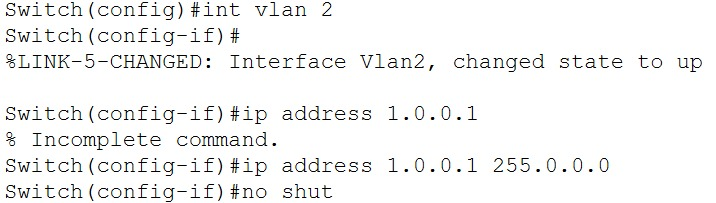
## Arrangement:

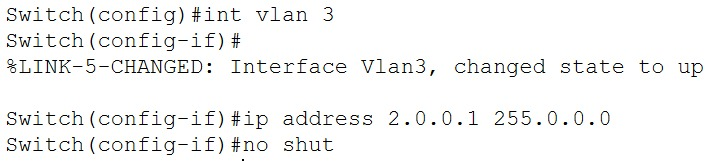


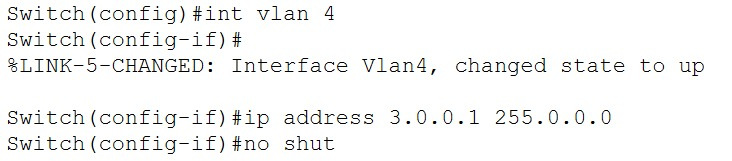
## Switch Config:

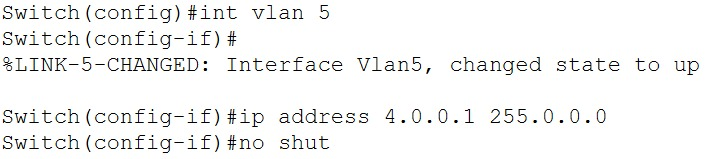


## VLan IP Assign:

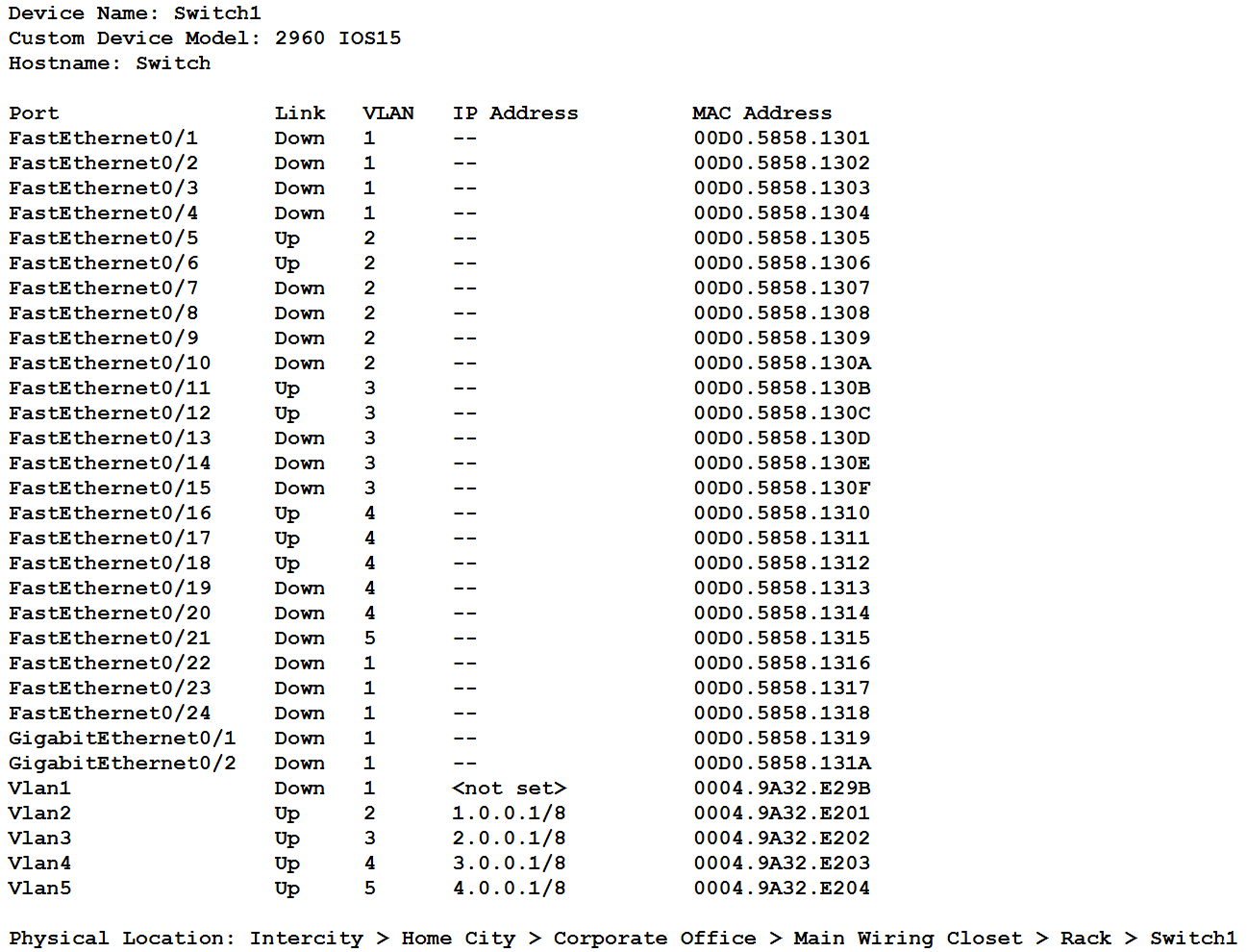






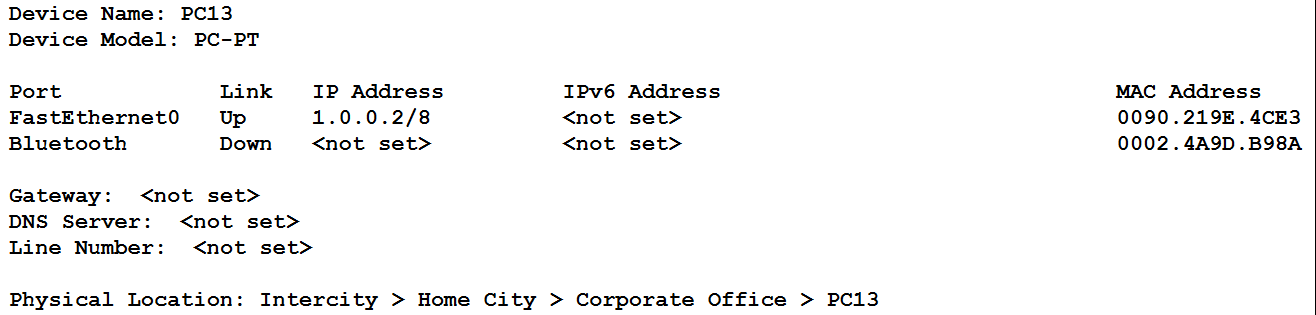


## Connection:



## IP assign to PCs:

Market’s PCs:



Text, letter

Description automatically generated

Accounting’s PCs:

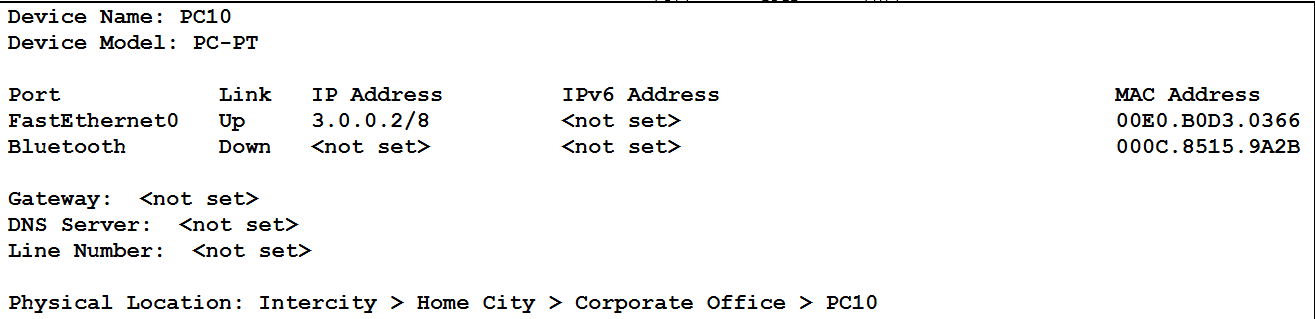
Text

Description automatically generated

Text, letter

Description automatically generated

Sales PCs:



Text, letter

Description automatically generated

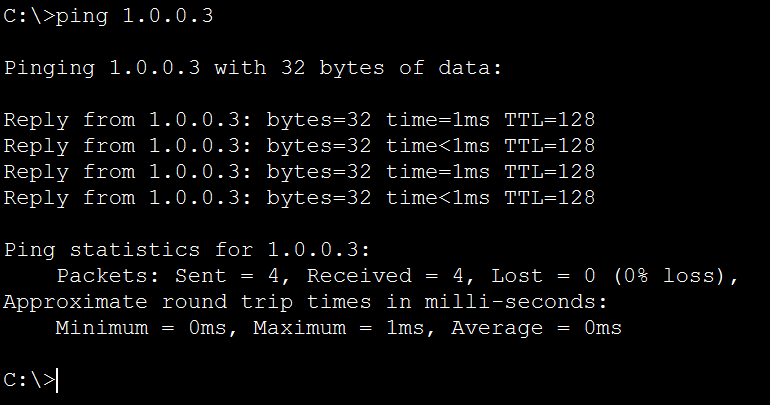
Text, letter

Description automatically generated

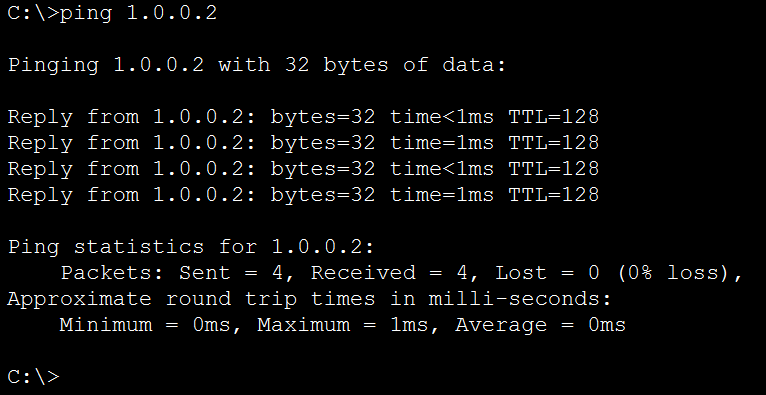
## Testing Connectivity:

Within VLan2:

From PC13 to PC12

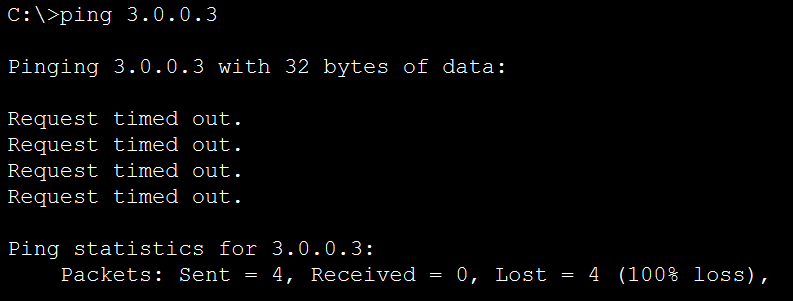


From PC12 to PC13



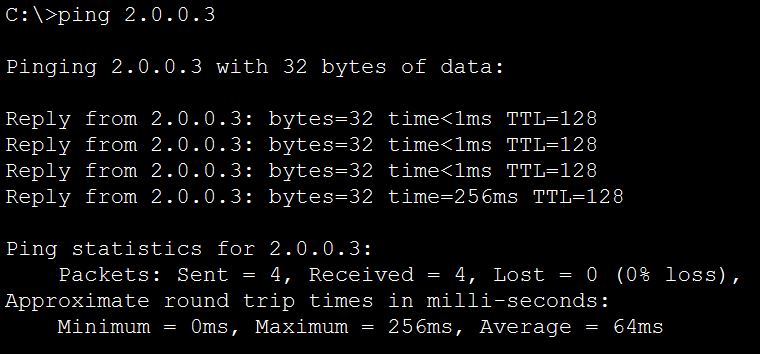
Outside VLan2:

From PC12 to PC09

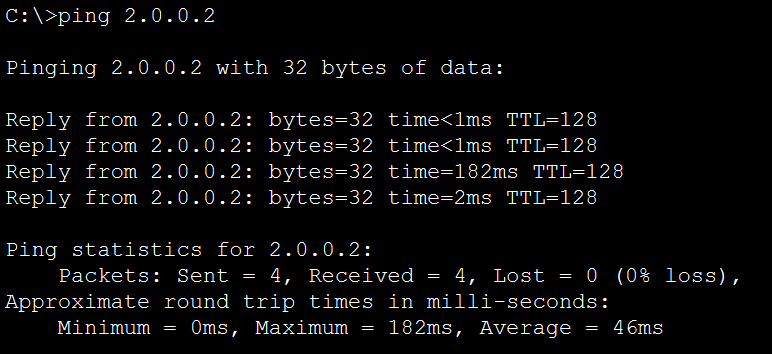


Within VLan3:

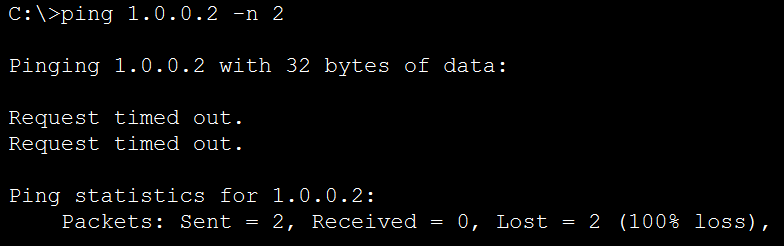
From PC14 to PC15



From PC15 to PC14

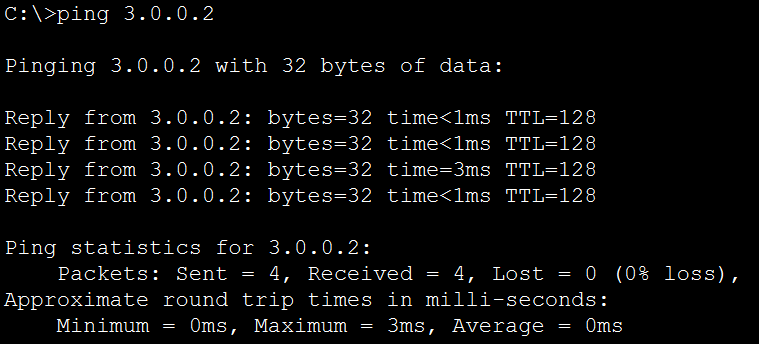


Outside VLan3:



Within VLan4:

From PC11 to PC10



From PC9 to PC11

Calendar

Description automatically generated

Outside VLan3:

From PC9 to PC13

