## COMPUTER NETWORKS PRACTICUM 6



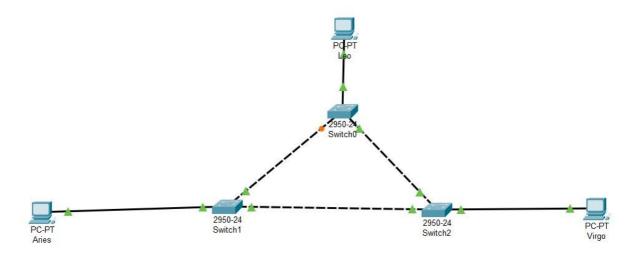
### By:

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# INFORMATION TECHNOLOGY FACULTY OF COMMUNICATION AND INFORMATICS UNIVERSITY OF MUHAMMADIYAH SURAKARTA 2020

#### 1. Activity 1



Picture 1.1 Set of computer network

#### a. Assignment 1A

Write the step of making topology!

#### **Answer**

- 1) Put 3 PC-PT and 3 Switch type 2950-24
- 2) Connect PC-PT and Switch with straight cable. and connect the switch with other switch using cross cables

#### b. Assignment 2A

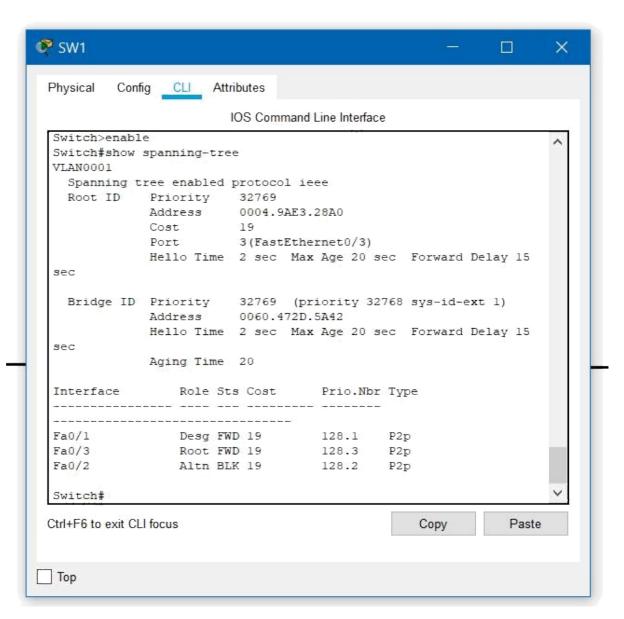
Write the step of giving switch name!

#### **Answer**

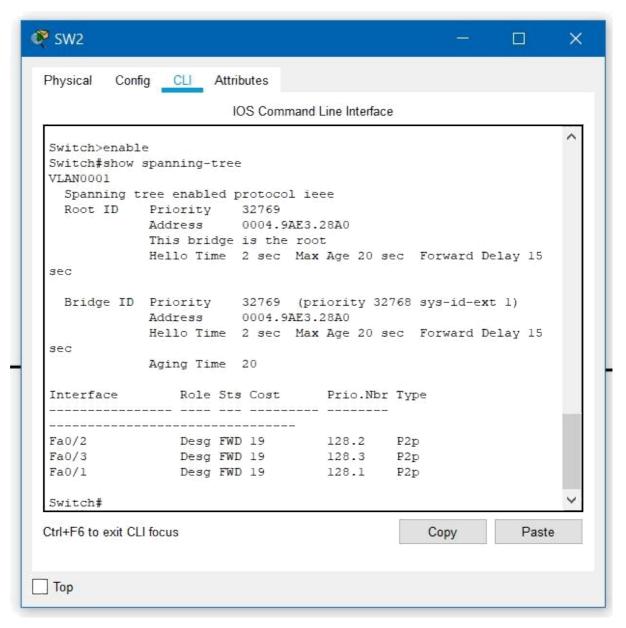
- 1) Click on the switch
- 2) Go to the config menu
- 3) Give a name in Display Name textfield

#### c. Assignment 3A

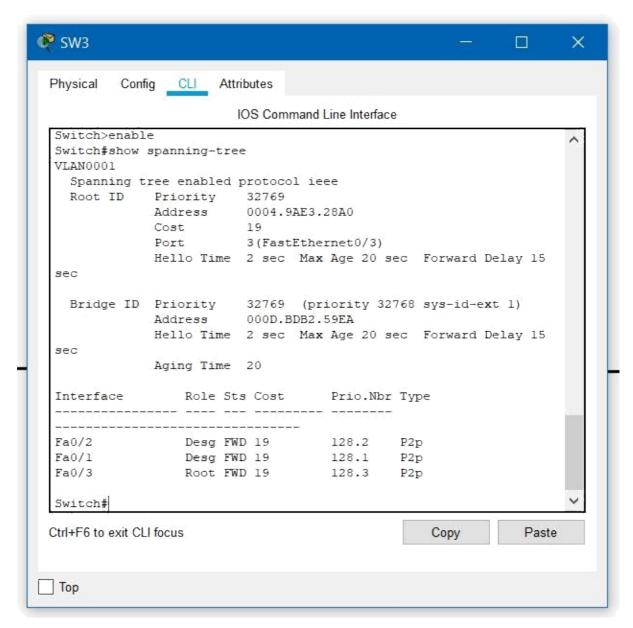
By default, capture each STP switch status display (SW1, SW2, and SW3)!



Picture 1.2. Result from SW1



Picture 1.3. Result from SW2



Picture 1.4. Result from SW3

#### d. Assignment 3A

For each switch, fill in the table!

#### **Answ**

er

SW1

No	Variable	Value
1	Priority	32769
2	MAC Address	0004.9AE3.28A0
3	Cost (0/1, 0/2, 0/3)	19, 19, 19
4	Hello Time	2
5	Max Age	20
6	Forward Delay	15

SW<sub>2</sub>

No	Variable	Value
1	Priority	32769
2	MAC Address	0004.9AE3.28A0
3	Cost (0/1, 0/2, 0/3)	19, 19, 19
4	Hello Time	2
5	Max Age	20
6	Forward Delay	15

#### SW3

No	Variable	Value
1	Priority	32769
2	MAC Address	0004.9AE3.28A0
3	Cost (0/1, 0/2, 0/3)	19, 19, 19
4	Hello Time	2
5	Max Age	20
6	Forward Delay	15

#### e. Assignment 3B

Under these defaults, which switches and ports are:

- 1) Become the root bridge
- 2) Become a designated bridge
- 3) Become the root port
- 4) Become a designated port

#### **Answer**

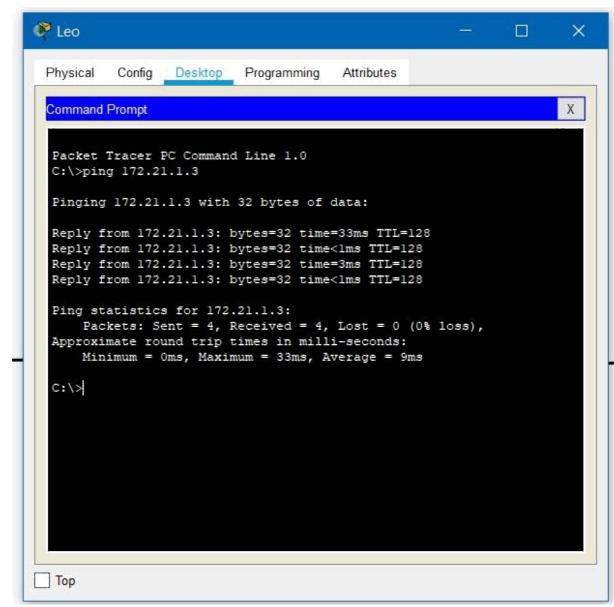
- 1) SW2
- 2) SW1 & SW3
- 3) Fa0/3
- 4) Fa0/1

#### f. Assignment 3C

Under these default conditions, and which ports are:

- 1) Is in a forwarding state
- 2) Is in a blocking state
- 3) From PC Leo ping to PC Virgo

- 1) Fa0/1 and Fa0/3
- 2) Fa0/2
- 3)



Picture 1.5. Pinging from PC Leo to PC Virgo

#### g. Assignment 3D

Write the steps to do the ping command!

#### **Answer**

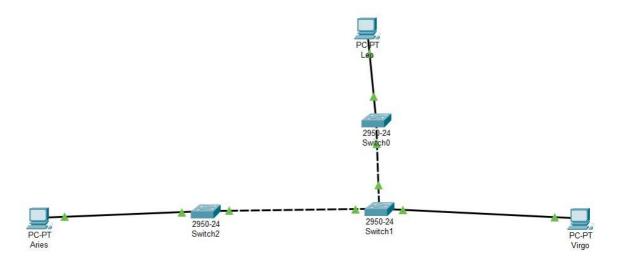
- 1) Click PC Leo
- 2) Go to desktop menu
- 3) Click Command Prompt
- 4) Type "ping 172.21.1.3"

#### h. Assignment 3E

Write steps to save network configuration!

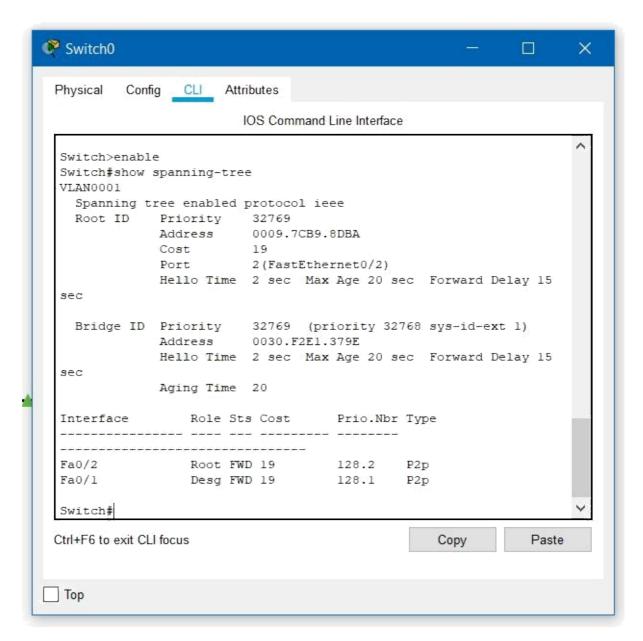
- 1) Click save button
- 2) Name it with "lab2"
- 3) Click save button

### 2. Activity 2

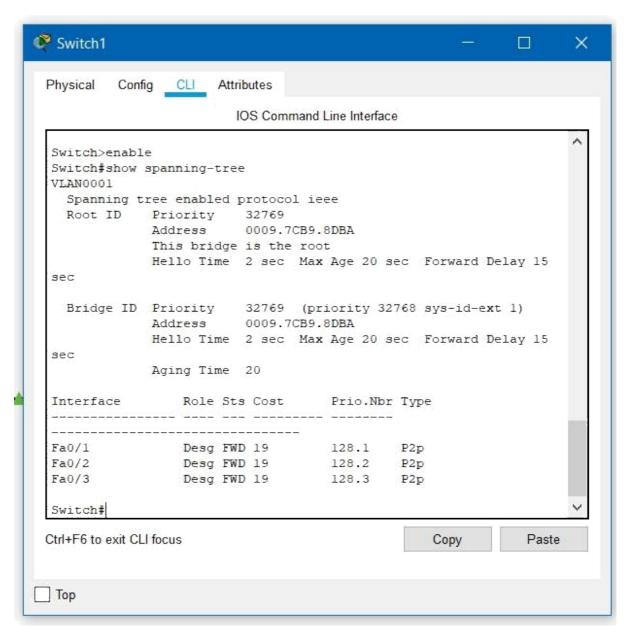


Picture 2.1. Set of computer network

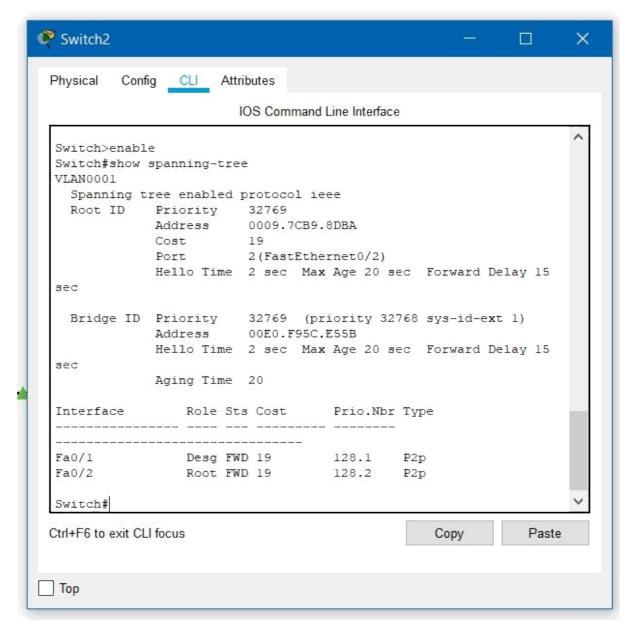
 a. Assignment 3A
 By default, capture each STP switch status display (SW1, SW2, and SŴ3)!



Picture 2.2. Result from SW1



Picture 2.3. Result from SW2



Picture 2.4. Result from SW3

#### b. Assignment 3B

For each switch, fill in the table!

#### **Answ**

er

SW1

No	Variable	Value
1	Priority	32769
2	MAC Address	0009.7CB9.8DBA
3	Cost (0/1, 0/2)	19, 19
4	Hello Time	2
5	Max Age	20
6	Forward Delay	15

#### SW2

No	Variable	Value
1	Priority	32769
2	MAC Address	0009.7CB9.8DBA
3	Cost (0/1, 0/2, 0/3)	19, 19, 19
4	Hello Time	2
5	Max Age	20
6	Forward Delay	15

#### SW3

No	Variable	Value
1	Priority	32769
2	MAC Address	0009.7CB9.8DBA
3	Cost (0/1, 0/2)	19, 19
4	Hello Time	2
5	Max Age	20
6	Forward Delay	15

#### c. Assignment 3C

Under these defaults, which switches and ports are:

- 1) Become the root bridge
- 2) Become a designated bridge
- 3) Become the root port
- 4) Become a designated port

#### **Answer**

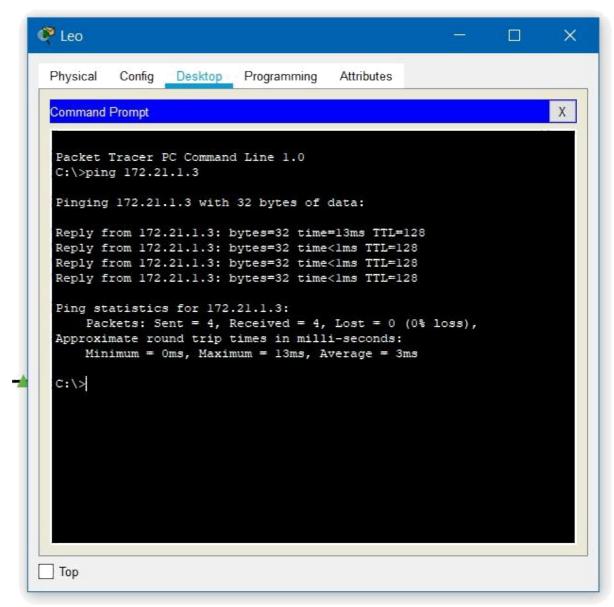
- 1) SW2
- 2) SW1 & SW3
- 3) Fa0/2
- 4) Fa0/1

#### d. Assignment 3D

Under these default conditions, and which ports are:

- 1) Is in a forwarding state
- 2) Is in a blocking state
- 3) From PC Leo ping to PC Virgo

- 1) Fa0/1
- 2) None



Picture 2.5. Pinging from PC Leo to PC Virgo

#### e. Assignment 3D

Write the steps to do the ping command!

- 1) Click PC Leo
- 2) Go to desktop menu
- 3) Click Command Prompt
- 4) Type "ping 172.21.1.3"