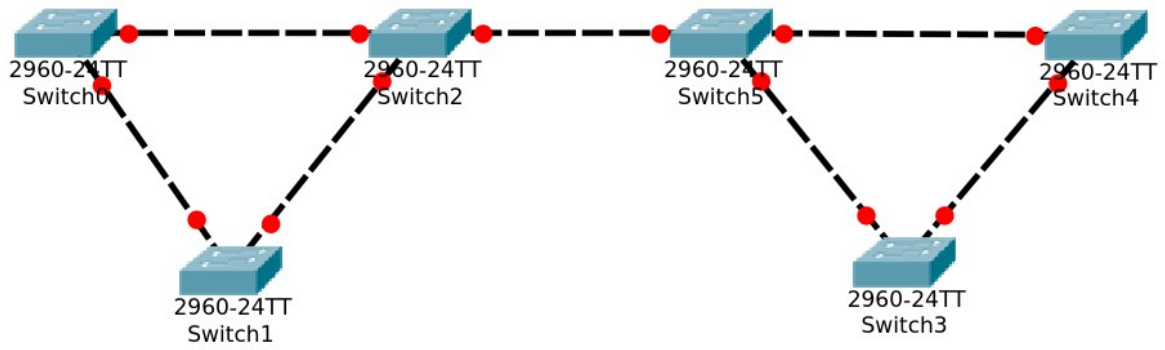


Ac3.6. Exercicis d'STP



Bilal Balghouch El Gourari
Ac3.6. Exercicis d'STP
2024-25

1. Donat el següent diagrama:



Les @MAC base dels switch són les següents:

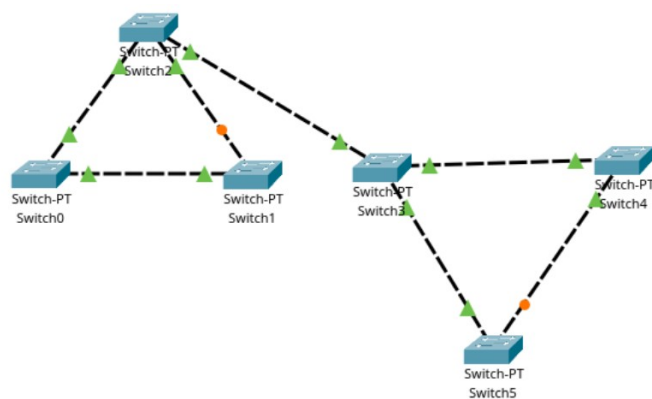
- S0: 00D0.9765.9876
- S1: 00D0.BA92.8EC0
- S2: 0009.7C7A.A01C
- S3: 00E0.F7DD.6CCE
- S4: 000C.8540.6C12
- S5: 000C.8523.9C5E

Identifiqueu:

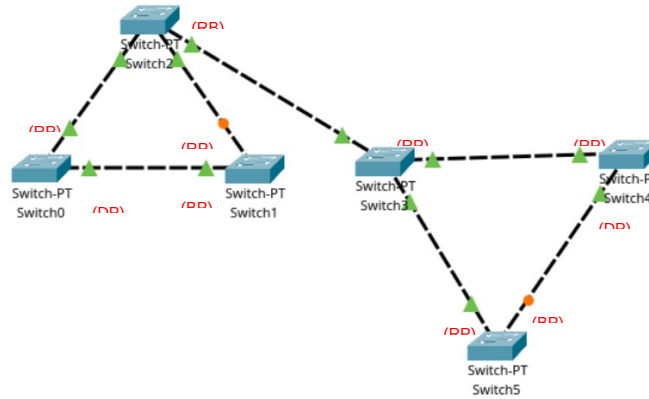
- Quin és el Root Bridge (RB)

switch2

- Redibuixeu el diagrama en forma d'arbre a partir d'aquest RB



- Quins són els Root Ports (RP), Designated Ports (DP) i Blocked Ports (BP)



- Comproveu al Packet Tracer que l'elecció que heu fet és correcta

```

IOS Command Line Interface

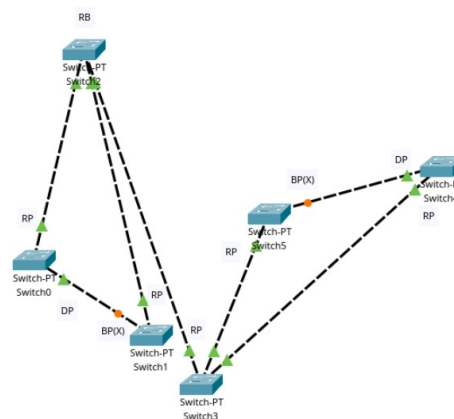
Cisco Internetwork Operating System Software
IOS (tm) PT3000 Software (PT3000-IQ4L2-M), Version 12.1(22)EA4, RELEASE SOFTWARE (fc1)
Copyright (c) 1986-2006 by Cisco Systems, Inc.
Compiled Fri 12-May-06 17:10 by pt_team

Press RETURN to get started!

%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINK-5-CHANGED: Interface FastEthernet1/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/1, changed state to up
%LINK-5-CHANGED: Interface FastEthernet2/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet2/1, changed state to up
%LINK-3-UPDOWN: Interface FastEthernet2/1, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet2/1, changed state to down
%LINK-5-CHANGED: Interface FastEthernet2/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet2/1, changed state to up

Switch>enable
Switch#config
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#spanning
Switch(config)#spanning-tree v

```



Nota: per tal de fer la comprovació, com que les MAC no us coincidiran, podeu forçar que un switch sigui Root Bridge amb la comanda:

R (config)# spanning-tree vlan 1 root primary

Per poder executar la comanda, des del CLI, haureu d'entrar primer al mode d'execució amb l'ordre *enable*, i llavors haureu d'entrar al mode de configuració amb l'ordre *config terminal*.

2.- Repetiu l'exercici anterior, suposant que les @MAC ara són:

- S5: 00D0.9765.9876
- S4: 00D0.BA92.8EC0
- S3: 0009.7C7A.A01C
- S2: 00E0.F7DD.6CCE
- S1: 000C.8540.6C12
- S0: 000C.8523.9C5E

S3: 0009.7C7A.A01C
S0: 000C.8523.9C5E
S1: 000C.8540.6C12
S5: 00D0.9765.9876
S4: 00D0.BA92.8EC0
S2: 00E0.F7DD.6CCE

Switch3 sera principal

```
IOS Command Line Interface

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/1, changed state to down
%LINK-3-UPDOWN: Interface FastEthernet2/1, changed state to down
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet2/1, changed state to down
%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
%LINK-5-CHANGED: Interface FastEthernet1/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/1, changed state to up
%LINK-5-CHANGED: Interface FastEthernet2/1, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet2/1, changed state to up

Switch>enable
Switch#config-it
Translating "config-it"...domain server (255.255.255.255)
% Unknown command or computer name, or unable to find computer address

Switch#config
Configuring from terminal, memory, or network [terminal]?
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#spann
Switch(config)#spanning-tree vl
Switch(config)#spanning-tree vlan 1
Switch(config)#spanning-tree vlan 1 ro
Switch(config)#spanning-tree vlan 1 root pe
Switch(config)#spanning-tree vlan 1 root pr
Switch(config)#spanning-tree vlan 1 root primary
Switch(config)#
```