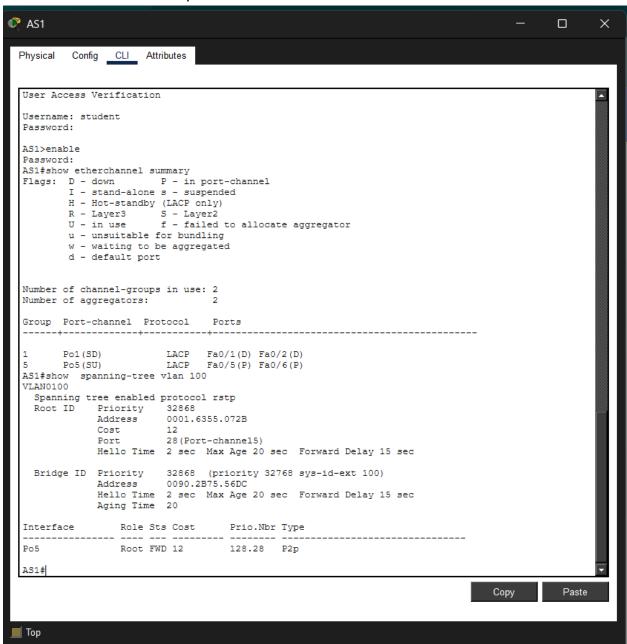Assignment 5:

Show etherchannel summary on AS1

```
AS1                                                          —    □    ✕

  Physical    Config    CLI    Attributes


  User Access Verification

  Username: student
  Password:

  AS1>enable
  Password:
  AS1#show etherchannel summary
  Flags:  D - down         P - in port-channel
          I - stand-alone s - suspended
          H - Hot-standby (LACP only)
          R - Layer3       S - Layer2
          U - in use       f - failed to allocate aggregator
          u - unsuitable for bundling
          w - waiting to be aggregated
          d - default port


  Number of channel-groups in use: 2
  Number of aggregators:           2

  Group  Port-channel  Protocol    Ports
  ------+------------+-----------+-----------------------------------------------

  1      Po1(SD)            LACP    Fa0/1(D) Fa0/2(D)
  5      Po5(SU)            LACP    Fa0/5(P) Fa0/6(P)
  AS1#show  spanning-tree vlan 100
  VLAN0100
    Spanning tree enabled protocol rstp
    Root ID    Priority    32868
               Address     0001.6355.072B
               Cost        12
               Port        28(Port-channel5)
               Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

    Bridge ID  Priority    32868  (priority 32768 sys-id-ext 100)
               Address     0090.2B75.56DC
               Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
               Aging Time  20

  Interface         Role Sts Cost      Prio.Nbr Type
  ---------------- ---- --- --------- -------- --------------------------------
  Po5              Root FWD 12        128.28   P2p

  AS1#

                                              Copy          Paste


  ▮ Top
```

On AS 2

```
AS2                                                                  —    □    ×

Physical   Config   CLI   Attributes

Password:
% Login invalid

Username: student
Password:

AS2>enable
Password:
AS2#show etherchannel summary
Flags:  D - down          P - in port-channel
        I - stand-alone s - suspended
        H - Hot-standby (LACP only)
        R - Layer3       S - Layer2
        U - in use       f - failed to allocate aggregator
        u - unsuitable for bundling
        w - waiting to be aggregated
        d - default port


Number of channel-groups in use: 2
Number of aggregators:          2

Group  Port-channel  Protocol    Ports
------+-------------+----------+-----------------------------------------------

3      Po3(SD)          LACP    Fa0/3(D) Fa0/4(D)
5      Po5(SU)          LACP    Fa0/5(P) Fa0/6(P)
AS2#show spanning-tree vlan 100
VLAN0100
  Spanning tree enabled protocol rstp
  Root ID    Priority    32868
             Address     0001.6355.072B
             This bridge is the root
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    32868  (priority 32768 sys-id-ext 100)
             Address     0001.6355.072B
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20

Interface        Role Sts Cost      Prio.Nbr Type
---------------- ---- --- --------- -------- --------------------------------
Po5              Desg FWD 12         128.28   P2p

AS2#
```

Copy   Paste

Top

On DS1

Physical   Config   CLI   Attributes

```
User Access Verification

Username: student
Password:

DS1>enable
Password:
DS1#show etherchannel summary
Flags:  D - down         P - in port-channel
        I - stand-alone s - suspended
        H - Hot-standby (LACP only)
        R - Layer3       S - Layer2
        U - in use       f - failed to allocate aggregator
        u - unsuitable for bundling
        w - waiting to be aggregated
        d - default port


Number of channel-groups in use: 2
Number of aggregators:           2

Group  Port-channel  Protocol    Ports
------+------------+----------+-----------------------------------------------

1      Po1(SD)          LACP   Fa0/1(D) Fa0/2(D)
3      Po3(SD)          LACP   Fa0/3(D) Fa0/4(D)
DS1#show spanning-tree vlan 100
VLAN0100
  Spanning tree enabled protocol rstp
  Root ID    Priority    4196
             Address     0060.70BA.4444
             This bridge is the root
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    4196  (priority 4096 sys-id-ext 100)
             Address     0060.70BA.4444
             Hello Time  2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time  20

Interface        Role Sts Cost      Prio.Nbr Type
---------------- ---- --- --------- -------- --------------------------------
Fa0/24           Desg FWD 19        128.24   P2p

DS1#
```

Copy   Paste

■ Top

File   Edit   Options   View   Tools   Extensions   Window   Help

Activity Results

Time Elapsed: 03:59:06

Congratulations Guest! You completed the activity.

Overall Feedback | Assessment Items | Connectivity Tests

Expand/Collapse All   Show Incorrect Items

Assessment Items	Status	Points	Component(s)	Feedback
- Ports				
- FastEthernet0/24		0	Other	
Access VLAN	Correct	1	Switching	
- FastEthernet0/3				
Channel Group	Correct	1	Switching	
Channel Mode	Correct	1	Switching	
- FastEthernet0/4				
Channel Group	Correct	1	Switching	
Channel Mode	Correct	1	Switching	
- FastEthernet0/5				
Channel Group	Correct	1	Switching	
Channel Mode	Correct	1	Switching	
- FastEthernet0/6				
Channel Group	Correct	1	Switching	
Channel Mode	Correct	1	Switching	
- Port-channel3		0	Other	
Port Status	Correct	1	Physical	
- Port-channel5		0	Other	
Port Status	Correct	1	Physical	
- VLANS		0	Other	
- VLAN 100		0	Switching	
VLAN Name	Correct	1	Switching	
- DS1				
- Ports				
- FastEthernet0/1				
Channel Group	Correct	1	Switching	
Channel Mode	Correct	1	Switching	
- FastEthernet0/2				
Channel Group	Correct	1	Switching	
Channel Mode	Correct	1	Switching	
- FastEthernet0/24		0	Other	
Access VLAN	Correct	1	Switching	
- FastEthernet0/3				
Channel Group	Correct	1	Switching	
Channel Mode	Correct	1	Switching	
- FastEthernet0/4				
Channel Group	Correct	1	Switching	
Channel Mode	Correct	1	Switching	
- Port-channel1		0	Other	
Port Status	Correct	1	Physical	
- Port-channel3		0	Other	
Port Status	Correct	1	Physical	
- VLANS		0	Other	
- VLAN 100		1	Switching	
VLAN Name	Correct	1	Switching	

Close

4°C
Partly cloudy

Q Search

9:11 PM
2025-10-25

File   Edit   Options   View   Tools   Extensions   Window   Help

Logical | Physical   x: 1090, y: 400

Root   00:14:30

Configure the network.

Objectives:
1. Create VLAN 100. Name it Cheese.
1. Configure all PCs into VLAN 100.
2. Configure all switches to use PVRST.
3. Configure LACP Etherchannel trunks between the switches.
4. Configure DS1 to be the root bridge for VLAN 100 by assigning a priority value of 4096.
5. Ensure only VLAN 100 can traverse each trunk.

You are not required to configure routing for this activity. PCs already have IP addresses on them.

Passwords:
Username: student
Password: cisco123
Enable Secret: cisco

Etherchannels:
For the connection from DS1 to AS1 - Channel-Group 1 (A-P)
For the connection from DS1 to AS2 - Channel-Group 3 (A-P)
For the connection from AS1 to AS2 - Channel-Group 5 (A-A)

Note:
Don't worry if the switches seem like they are constantly going crazy. It's just a Packet Tracer thing.
And, if some of the lights aren't green, also, don't worry. You can verify functionality with the following commands:
show etherchannel summary
and
show spanning-tree vlan 100

PC-PT
PC2

3560-24PS
DS1

PC-PT
PC1

2960-24TT
AS1

2960-24TT
AS2

PC-PT
PC3

Time Elapsed: 04:00:46   Completion: 100%

☑ Dock   Check Results   Back   1/1   Next

Time: 03:52:03

Realtime   Simulation

| Fire | Last Status | Source | Destination | Type | Color | Time(sec) | Periodic | Num | Edit | Delete |

Scenario 0

New   Delete

Toggle PDU List Window

4°C
Partly cloudy

Q Search

9:12 PM
2025-10-25