Assessment Element 2

Topology
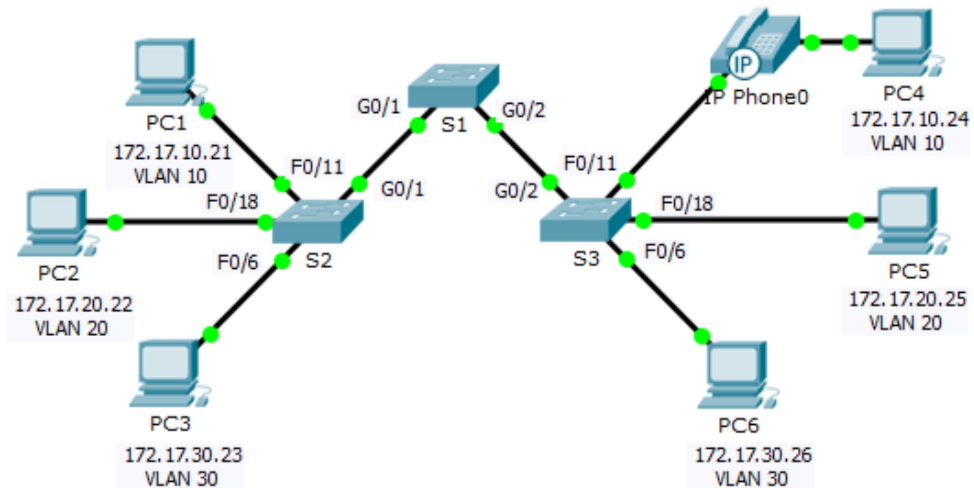
Addressing Table

Device	Interface	IP Address	Subnet Mask	VLAN
PC1	NIC	172.17.10.21	255.255.255.0	10
PC2	NIC	172.17.20.22	255.255.255.0	20
PC3	NIC	172.17.30.23	255.255.255.0	30
PC4	NIC	172.17.10.24	255.255.255.0	10
PC5	NIC	172.17.20.25	255.255.255.0	20
PC6	NIC	172.17.30.26	255.255.255.0	30

Figure 1

Considering the topology given in Figure 1, complete the following tasks:

1) Create VLANs .
2) Assign ports to the created VLANs.
3) Assign Access and Trunk ports.

The aforementioned three tasks should have already been completed as part of your seminar activity 5.

As part of your assessment, you are required to implement inter-VLAN communication. For example: VLAN 10 should able to communicate with VLAN 20 and VLAN 30.

Ultimately, all the PCs corresponding to different VLANs shown in Figure 1 should be pinging each other.

You will produce .pka (packet tracer) file and upload it on the link provided on the Blackboard under week 5. Your .pka file will be tested for the correct configuration and the establishment of end-to-end communication.

The switches and routers should be given a hostname using the following format:

Firstname_StudentID (e.g. Peter_214000). Submissions will not be accepted if you do not adhere to the correct format.

Submission deadline: 11th March, 11:59 pm

Submission method: Blackboard

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