Networking II Week 1 – Switch in Class Exercise – Private VLANs

This in class exercise uses ending configurations from previous week Review Lab (diagram below) and focuses on private vlans.

**Networking II Review Lab**

**Step 1: Setup**

Start with ending configurations from Review Lab from last week. Be sure that PC1 can ping PC2 and vice versa.

**Step 2: Change PC2 to be on VLAN 10**

Change PC2 to be on vlan 10 instead of vlan 20. Give it IP address of 10.1.10.101. Be sure to change default gateway as needed. Ensure you can ping from PC1 to PC2 and vice versa.

**Step 3: Protected ports**

Configure switch interfaces of PC1 and PC2 as a protected ports.

Can PC1 ping PC2 and vice versa? Why or why not?
After testing put switch ports back as unprotected ports.

Reconfigure R3/Branch router fast gig0/0 as an access port (not a trunk) on vlan 10 with ip address of only 10.1.10.1 (remove all sub-interfaces).

**Step 4: PVLAN Configuration**

Configure an isolated vlan – 100. This isolated vlan will use vlan 10 as their primary vlan.

Put PC1 in isolated vlan 100 and PC2 in isolated vlan 100.

Both PC1 and PC2 should be able to ping default gateway – configuration on switch interface to R3 is required to make this work – implement the solution.

Can PC1 ping PC2 and vice versa? Why or why not?

**Step 5: Community Pvlan configuration**

Configure a community vlan of 300. This will use vlan 10 as primary vlan.

Put PC1 and PC2 in community vlan 300.

Both PC1 and PC2 should be able to ping default gateway – configuration on switch interface to R3 is required to make this work – implement the solution.

Can PC1 ping PC2 and vice versa? Why or why not?