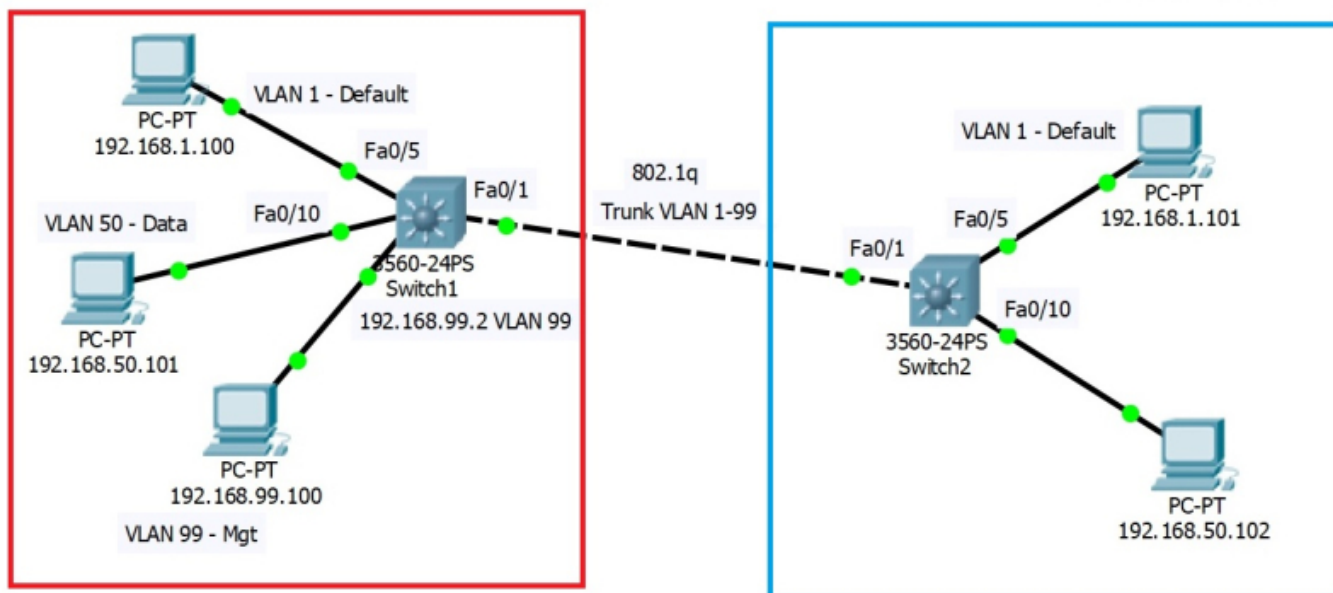


Cisco Trunks

Nov 2017

VLANs and Trunks

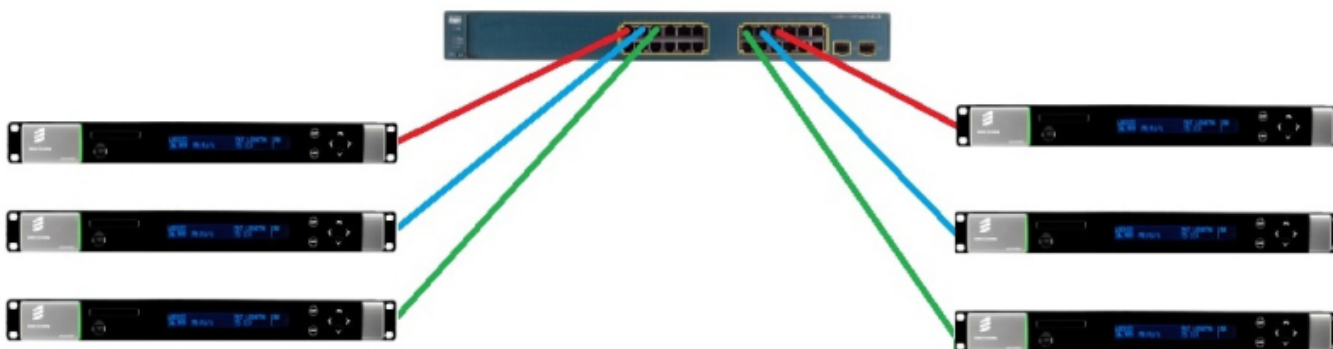


Introduction

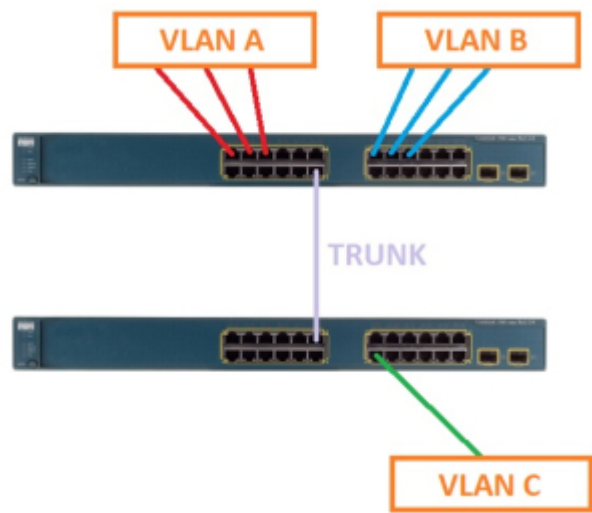
In the previous topic regarding [Cisco VLANs and Trunks](#) there are some videos outlining the theory of using VLANs and Trunks. Here we will look more at a worked example, and see some of the commands.

Overview

First of all, I would like to outline what I am trying to achieve. Look at the diagram below.



There are two sets of receivers (so consider two sets of multicast) coming from different head-ends. To keep the traffic separate, let's consider that the ports connected to the receivers on the left are all in VLAN A, and the receivers on the right are in VLAN B, as shown below.



VLAN C is on another switch where our destination equipment is located. The link between the two Cisco switches is our Trunk.



The reason we are using a Trunk is that a single port (interface) can only carry traffic from a single VLAN, because an interface can only exist in one VLAN. So if you have multiple VLANs that you wish to carry from one switch to another, you need to use a Trunk. A Trunk can carry the traffic from multiple VLANs.

Example

VLANs, while technically the same, can be broken down into functions. Some of these are:

- Default VLAN
- Native VLAN
- Data VLAN
- Management VLAN
- Voice VLAN

Default VLAN

As the name suggests, the default VLAN is the VLAN that the interfaces are initially located in. On a Cisco this is VLAN 1. From the Cisco CLI you can use the command `show vlan` to list the currently configured VLANs.

VLAN	Name	Status	Ports
1	default	active	Fa0/1, Fa0/2, Fa0/3, Fa0/4 Fa0/5, Fa0/6, Fa0/7, Fa0/8 Fa0/9, Fa0/10, Fa0/11, Fa0/12 Fa0/13, Fa0/14, Fa0/15, Fa0/16 Fa0/17, Fa0/18, Fa0/19, Fa0/20 Fa0/21, Fa0/22, Fa0/23, Fa0/24 Gig0/1, Gig0/2
1002	fddi-default	act/unsup	
1003	token-ring-default	act/unsup	
1004	fddinet-default	act/unsup	
1005	trnet-default	act/unsup	

Above we can see that VLAN 1 is listed as the default VLAN, this VLAN contains all the ports on the switch, this is how the switch will be configured from new when powered on.

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