HOW CAN CONFIGURE FIVE DIFFERENT NETWORKS/VLANS WITH ONE PORT OF ROUTER

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ABSTRACT

In this paper, we will set up five different Networks/ VLANS, and each of them will be configured to the same router's port. Usually when we have some networks or VLANS, they are configured each of them in different ports of router. The network will be designed and simulated by using the Cisco Packet Tracer 7.2 simulator. This is a technical knowledge that is harder to configure but is usable when we have fewer router's port or fewer network cards in the router. One way is to connect several networks to a single port. This technique called Router on a Stick, and between router and the switch used one Ethernet link that is configured like as an 802.1q trunk link. It is clear that as many ports or network cards have a router, this means higher cost, so with a simple technique we can buy a router more chipper and make this configuration. The traffic between networks goes into the router and out of the router through the same port so we need a router with higher performance that communication cannot interrupted. In this paper we are set up five different Networks or VLANS but of course that you can set up less or more, depend on your needs or data traffic that you have to pass thought to the router. At last we will test the configurations to see that the technique we have used is working.

Keywords: VLAN, Router on a Stick, IP, 802.1q trunk, Cisco Packet Tracer.