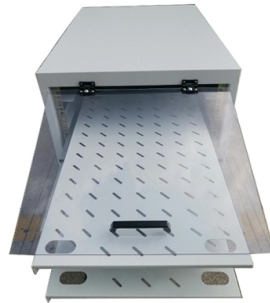


How to use the network ports of the core switch



Overview

Port Channels are a technology that allows network devices to combine two or more physical interfaces into one single logical interface. On the device, when an IP packet needs to exit the port channel, each IP packet is run through a hash algo. Port Channels are a technology that allows network devices to combine two or more physical interfaces into one single logical interface. On the device, when an IP packet needs to exit the port channel, each IP packet is run through a hash algorithm to decide what physical interface the IP packet will be sent to. If one physical interface fails, all. Virtual LANs, or VLANs, are a logical way to limit network traffic and prevent it from being propagated everywhere on the network where it doesn't need to be. There are three types of traffic that an Ethernet devices could drop on the network: 1. Unicast: traffic directed to another Ethernet device specifically. 2. Multicast: traffic directed to a. The difference between an access and a trunk port is that an access port belongs to a VLAN (untagged) whereas a trunk port can carry multiples VLANs (one untagged and the rest tagged). Let me elaborate. VLAN tagging is an Ethernet concept. Ethernet's units of information are called frames just like IP's information units are called packets. Frames. A Layer 3 Switch has routing capabilities. Think of it as an Ethernet switch with an internal router off of which you can extend routed interfaces to each of the VLANs. Each of those virtual interfaces becomes a Switched Virtual Interface, or SVI, for the VLAN it was assigned to. On a Layer 3 Switch, a VLAN interface, or SVI, is a virtual interface. Cisco IOS switches can be configured as DHCP Servers to provide provide IP addresses and other IP settings to DHCP Clients. In our topology, R2 was been configured as a DHCP Client. Let's configure a DHCP pool of IP address that the CORE switch can use to assign IP addresses to DHCP clients on VLAN 20. Let's enable R20 to obtain an IP address via D.

Article Content

Basic Cisco Switch Configuration Example in 10 Steps

By default, all physical ports of the switch belong to the native VLAN1. One of the most important functions of an Ethernet switch is to segment the network into

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The so-called core switch is for the network architecture. If it is a small local area network with several computers, a small switch with 8 ports can

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VLAN Routing with Layer 3 Switch Routed Ports

Figure 17-5 shows an example of where to use SVIs and where to use routed ports in a typical core/distribution/access design. In this design, the core (Core1, Core2) and distribution (D11 through

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