

This hierarchical physical design of a secure campus wired LAN is very common and involves two or three levels between the access switch and the core equipment, such as a firewall or a router.

Take time to plan the IP subnet design, because it is not easy to change the IP subnet assignments once they are in place. It is crucial for a network engineer to consider three factors ...

Configure IGMP snooping on access and aggregations switches in a Three-Tier topology, or access and core switches in a Two-Tier topology. Dynamic Multicast Optimization ...

It provides for full-duplex, half-duplex, or simplex operation, and establishes check pointing, adjournment, termination, and restart procedures.

Planning is key for a successful deployment and aims in collecting/validating the required design aspects for a given solution. The following section takes you through the whole design and planning process ...

This article walks through the design, configuration, and verification of a 2-Tier Collapsed Core topology using industry-standard redundancy protocols. By the end, you'll understand how ...

Recommendations for IP address planning on a small- or medium-sized campus network are as follows: A Layer 2 device uses the VLANIF interface's IP address as the management IP address. It is ...

Learn how to design IPv4 and IPv6 addressing schemes. Proper network design and IP address planning is vital if your network is to operate efficiently.

Two 10gb fibres connect adjacent pairs of buildings so as to form a "ring". The switches will present numerous vlans on their access ports. Some vlans are unique to a given building and will ...

As you add more switches to a floor, you must keep in mind the distribution of the uplinks across switches, and the impact on oversubscription during failure. For access points that are dual attached ...

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