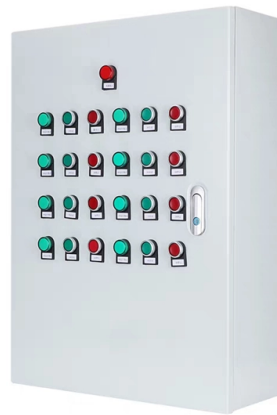


Local Area Network Security Equipment Architecture



Overview

I will discuss securing a LAN from the viewpoint of the network architect considering three main areas: the network topology which comprises the physical and logical design of the network; securing the routers and switches which connect segments and hosts to form the network;. I will discuss securing a LAN from the viewpoint of the network architect considering three main areas: the network topology which comprises the physical and logical design of the network; securing the routers and switches which connect segments and hosts to form the network;. In order to design and build a well-secured network, many factors must be taken into consideration, such as the topology and placement of hosts within the network, the selection of hardware and software technologies, and the careful configuration of each component. My paper will be an examination. Continuous Monitoring and Logging Deploy monitoring tools to detect anomalies and potential breaches. Maintain comprehensive logs for forensic analysis and compliance. Redundancy and Failover Design networks with redundant paths and failover mechanisms to ensure availability during hardware. Network security architecture is a strategy that provides formal processes to design robust and secure networks. It involves integrating security at every layer of the network—from physical devices to cloud-based services—ensuring that data, systems, and. This publication has been developed by NIST in accordance with its statutory responsibilities under the Federal Information Security Modernization Act (FISMA) of 2014, 44 U.

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