

What model of access layer switch should be used



Overview

When choosing access layer switches, there are many points to consider, such as port density, port speed, security, scalability, deployment and management methods, as well as cost. Port density refers to the number of ports available on a single. The hierarchical network model, typically comprising access, distribution, and core layers, defines specific roles for different types of switches. Understanding these distinctions is key to building an efficient and robust network. This guide provides a comprehensive comparison of Access. In a three-layer hierarchical model, a switch is named after the layer in which it works. For example, a switch that provides access-layer functionality is called an access switch, a switch that operates in the distribution layer is known as a distribution switch, and a switch that operates in the. Access layer switches are primarily deployed in Layer 2 mode in the data center. A Layer 2 access topology provides the following unique capabilities required in the data center: VLAN extension—The Layer 2 access topology provides the flexibility to extend VLANs between switches that are connected. As the physical entity of the access layer, access switches are responsible for connecting both to the distribution layer switches and to the end devices as well as ensuring the packets are delivered to the end devices.

Article Content

Data Center Access Layer Design

VLAN extension across the access layer—A plus is given to those access design models that permit a VLAN to be extended to all access switches that are connected to a common aggregation module.

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