Classification Table of Network Security Equipment



Overview

Secure your network with the right devices. A guide to firewalls, IDS/IPS, SIEM, and how identity governance fits in the picture.

Key Takeaways

Network security equipment can be classified into hardware, software, and cloud-based devices, each designed to protect networks from unauthorized access, malware, and other cyber threats. 1.

Hardware Network Security Devices

These are physical appliances deployed at network perimeters or critical points to monitor, filter, and control traffic: Firewalls: Act as a barrier between internal networks and the internet, filtering traffic based on rules. Types include packet-filtering, stateful, next-generation (NGFW), and web application firewalls (WAFs) that inspect traffic up to the application layer. Intrusion Detection Systems (IDS) and Intrusion Prevention Systems (IPS): IDS monitors network traffic for suspicious activity and alerts administrators, while IPS actively blocks malicious traffic in real-time.

Unified Threat Management (UTM) Appliances: Combine multiple security functions such as firewall, antivirus, anti-spam, content filtering, and IPS into a single device. Network Access Control (NAC): Enforces policies to allow only authorized devices and users to access the network. Network Load Balancers (NLB): While primarily for performance, they can also enhance security by distributing traffic and preventing overload attacks.

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2.

Software Network Security Solutions

These are applications installed on servers, endpoints, or virtualized environments to protect network infrastructure: Antivirus and Anti-malware Software: Detects and neutralizes malicious software such as viruses, worms, ransomware, and spyware. Email Security Gateways: Filter incoming and outgoing emails to block spam, phishing, and malware. Web Security and Application Firewalls: Protect web applications by inspecting HTTP/HTTPS traffic for attacks like SQL injection or cross-site scripting.

Security Information and Event Management (SIEM): Collects and analyzes security data from multiple sources to detect threats and ensure compliance. 3.

Cloud-

Based Network Security

With cloud adoption, many security functions are delivered as services: Cloud Firewalls and WAFs: Protect cloud-hosted applications and websites.

Cloud VP

Ns: Provide secure remote access to corporate networks over public internet connections.

Cloud DL

P (Data Loss Prevention): Monitors and protects sensitive data in cloud storage and applications. 4.

Specialized Security Devices

Virtual Private Network (VPN) Gateways: Encrypt data between remote users and the network, ensuring privacy and secure access.

Wireless Intrusion Detection/

Prevention Systems (WIDPS/WIPS): Monitor wireless networks for rogue access points and unauthorized devices. Data Loss Prevention (DLP) Systems: Prevent unauthorized data transfer and protect sensitive information.

Summary

Network security equipment is classified based on deployment type (hardware, software, cloud) and function (traffic filtering, threat detection, access control, data protection). A layered approach combining multiple devices—such as firewalls, IDS/IPS, VPNs, UTMs, and DLP systems—ensures comprehensive protection against evolving cyber threats.

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Article Content

Top 16 Network Security Devices [Updated 2025]

In this article, we will explore common types of network security devices, appliances and technologies that form a robust, multi-layered security strategy, including firewalls, intrusion

Network Security Devices Explained: Types, Examples ...

The main types of network security devices include firewalls, intrusion protection systems (IPS), unified threat management (UTM) systems, network access control (NAC), email security gateways, web

What Are Network Security Devices? Types and Guide

Secure your network with the right devices. A guide to firewalls, IDS/IPS, SIEM, and how identity governance fits in the picture.

18 Types of Network Security Solutions to Implement

Everything you need to know about the fundamental types of network security, from firewalls and VPNs to vulnerability management and endpoint protection.

Comprehensive Guide to Networking Devices in Cybersecurity ? Real

A detailed comparison helps professionals choose the right security tools for their infrastructure. Additionally, the blog outlines best practices for implementing secure networking

The Most Common Types of Network Security Devices to Protect

While there are multiple ways to categorize the various network security components, some of the more common network security device types include firewalls, access control, intrusion

Types of Network Security Devices You Need to Know

We at Clouddle see organizations struggling to choose from dozens of available types of network security devices. This guide breaks down the most effective options and helps you build a

Network Equipment Guide: Types, List, Management & Best Practices

This guide provides a complete overview of network equipment, including its operation, types, classification, and the importance of maintaining a structured network equipment list.

Network Security Devices Guide | The Connectivity Center

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Discover essential network-security devices — firewalls, intrusion detection systems, VPNs & more hardware to protect your network and data integrity.

Computer network

In computer science, computer engineering, and telecommunications, a network is a group of communicating computers and peripherals known as hosts, which communicate data to other hosts

ESTABLISHING NETWORK EQUIPMENT SECURITY

ESTABLISHING NETWORK EQUIPMENT SECURITY Firewalls and gateway routers are already important components of any organization''s network security strategy. But network architects can

List of Equipment and Services Covered By Section 2 of The Secure ...

Section 1.50002 of the Commission''s rules directs the Public Safety and Homeland Security Bureau to publish a list of communications equipment and services (Covered List) that are deemed

What is network security?

What is network security? Network security combines policies and technologies to protect systems and digital assets from unauthorized access, misuse, and disruption. By using layered defenses rather

Network Infrastructure Security Guide

It will assist administrators in preventing an adversary from exploiting their network. While the guidance presented here can be applied to many types of network devices, the National Security

What Is Data Classification?

Data classification fortifies data security by categorizing and prioritizing sensitive information, enabling access control, encryption, and compliance measures.

NATIONAL SECURITY CLASSIFICATION GUIDE

Management Staff, DDA~. SUBJECT:. Agency-wide. Classification Guide 0 1. has raised some questions concerning the portion marking contained in the'' classification guide published by this

What Are The Different Types Of Network Security?

Network security is a combination of technologies, devices, and processes designed to protect an organization''s network infrastructure from unauthorized access, exploitation of its

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Understanding the Secure Networks Act

Telecommunications security underwent a massive shift in March 2026, when the Federal Communications Commission (FCC) expanded its Covered List to include all consumer

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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North American project location: Research Triangle Park, North Carolina, United States

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