

Configuring and Using Network Security Devices



Article Overview

Configuring network security devices involves assessing your network, planning device placement, setting up firewalls, routers, and switches with security in mind, and maintaining them through monitoring and updates.

Assess Your Network Requirements

Before configuring any device, evaluate your network needs, including the number of devices, types of data traffic, and security requirements. This assessment helps determine IP addressing schemes, routing protocols, and firewall rules that align with your organizational goals and ensures a secure and efficient network infrastructure .

Plan Your Network Layout

Create a network diagram showing the placement of routers, switches, firewalls, and access points. This visual representation helps you understand device interactions, optimize performance, and simplify troubleshooting . Include redundancy to prevent single points of failure.

Configure Routers and Switches

- Access the device interface via a web browser or command-line interface using the device's IP address .
- Set IP addressing and routing protocols such as RIP, OSPF, or EIGRP to manage traffic between network segments

Article Content

May 10, 2026

SP 800-53 Rev. 5, Security and Privacy Controls for Information

This publication provides a catalog of security and privacy controls for information systems and organizations to

May 20, 2026

ESTABLISHING NETWORK EQUIPMENT SECURITY

For improved network security, the Trusted Computing Group (TCG) is developing standards/guidance that specifically addresses

Aug 23, 2025

How are network devices configured?

In this article, we will guide you through the process of configuring network devices, from assigning IP addresses to

Oct 05, 2025

Network Security Devices Explained: Types, Examples ...

Network configuration management tools automate the backup process by securely storing the configuration and state of network

Aug 21, 2025

Guide to Network Security Best Practices | Netwrix

Follow these network security best practices to strengthen your network against cybersecurity threats and

Jan 07, 2026

What is network security?

What is network security? Network security combines policies and technologies to protect systems and digital assets from

May 05, 2026

What Is Firewall Configuration? | How to Configure a Firewall

To set up your firewall, access its interface, update firmware, set strong passwords, define network zones, configure access control

Mar 24, 2026

Best Practices for Configuring and Maintaining Network Devices

Learn how to configure and maintain network devices using best practices that can optimize your network topology and devices.

Feb 22, 2026

Network Device Security: Guide + Recommended Software

Do you know how network devices can affect the security of your entire network? Find out network device

Mar 26, 2026

Network Infrastructure Security Guide

Guidance for securing networks continues to evolve as adversaries exploit new vulnerabilities, new security features

Aug 11, 2025

What Is Network Configuration?

Key Takeaways Network configuration involves defining and applying settings — such as IP addresses, protocols, and

May 20, 2026

Device features and settings in Microsoft Intune

Overview of the different Microsoft Intune device profiles. Get info on GPO, features, restrictions, email, wifi, VPN,

Nov 24, 2025

Network Device Management Policy

A structured approach to network device management ensures secure configuration, monitoring, and access control

May 19, 2026

Configure Microsoft Defender for Endpoint with Intune and onboard devices

Connect Microsoft Defender for Endpoint to Intune, onboard devices by platform, and configure compliance and

Jul 09, 2026

Network Device Security: Guide + Recommended Software

This guide will look at five of the most common network devices and the role they play in security, along with the role

Feb 18, 2026

The Benefits of Proper Network Configuration

Network configuration software can also help you automate your device and make policy changes and updates.

Oct 07, 2025

Securing Network Connections | NIST

- This guide provides recommendations for basic network setup and securing of home routers and modems against

Jan 31, 2026

Network Security Administrator: Configuring and Managing Devices

This comprehensive guide explores the processes and best practices for configuring and managing network security devices such as

Dec 08, 2025

Network Device Security: Guide and Best Practices

Network device security is one of the most important elements of network management. Learn what it is and best

Sep 03, 2025

CIS Control 11: Secure Configuration for Network Devices, such as ...

Establish, implement, and actively manage (track, report on, correct) the security configuration of network infrastructure devices

Dec 06, 2025

What is Firewall Configuration and Why is it Important? | Fortinet

What Is Firewall Configuration? A firewall plays a vital role in network security and needs to be properly configured to keep

Jan 07, 2026

Network Configuration: Definition, Types, and Benefits | Motadata

Understand network configuration, its key types, and benefits in managing IT infrastructure, ensuring security, and optimizing

Aug 12, 2025

Network security fundamentals | National Cyber Security Centre

This guidance provides an introduction to the key topics to consider when designing, maintaining, or using networks

Oct 21, 2025

ESTABLISHING NETWORK EQUIPMENT SECURITY

Devices using autoconfiguration (also known as zero touch configuration or provisioning) can use a TPM to reliably identify

Jul 29, 2025

What is network configuration?

Network configuration is the process of setting up the policies, controls and data flows that allow devices

Nov 24, 2025

Best practices for network security

This article provides a set of best practices for network security using built in Azure capabilities.

Jan 18, 2026

Network Device Configuration Security | Strobes

Expert guide to network device configuration reviews: routers, switches, firewalls. Discover best practices & Strobes

Jan 20, 2026

Device security guidance

Advice for organisations on choosing, configuring and using mobile phones, tablets, laptops, desktops and

Aug 07, 2025

Network security fundamentals | National Cyber Security Centre

Examples of where certificates can be used are for network access, Transport Layer Security (TLS) and Virtual Private

Jul 23, 2026

Firewall and network protection in the Windows Security app

Configure Windows Firewall with Windows Security In the Windows Security app on your PC, select Firewall & network protection or

Oct 02, 2025

How to Configure a Firewall in 5 Steps

How to Configure a Firewall in 5 Steps. As the first line of defense against online attackers, your firewall is a critical part of your

Sep 09, 2025

Beginner's Guide to Configuring Network Devices

Beginner's Guide to Configuring Network Devices - Routers & Switches: Selecting an appropriate router is crucial for

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.greatpremiersolutions.co.za>

Email: sales@greatpremiersolutions.co.za

Phone: +27 82 914 3675

Address: Unit 5, Silicon Heights, 22 Electron Avenue, Cape Town, 8001, South Africa

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