

Network security device deployment modes include



Article Overview

Network security devices can be deployed in multiple modes, including inline, passive, routed, transparent, and evaluation modes, each balancing security, performance, and network integration differently.

Inline vs Passive Deployment

Inline deployment places the security device directly in the path of network traffic, allowing it to actively inspect, filter, or block packets. This is common for firewalls, intrusion prevention systems (IPS), and SSL visibility appliances, where the device can enforce security policies in real time . Inline deployment can be configured in:

- **Routed Mode:** The device acts as a Layer 3 router, segregating networks and routing traffic between subnets while applying security policies. It may perform NAT and inspect upper-layer headers and payloads .
 - **Transparent Mode:** The device operates at Layer 2, acting as a bridge without requiring IP reconfiguration. This mode is useful for minimal network disruption and LAN-based protection .
- Passive deployment involves monitoring traffic without actively altering it. Devices receive a copy of network traffic via SPAN, TAP, or ERSPAN interfaces. Passive mode is often used for intrusion detection, traffic analysis, or evaluation purposes, where the device observes traffic but does not block it .

Specialized Deployment Modes...

Article Content

Understanding the Cisco ISE Network Deployment

Understanding the Cisco ISE Network Deployment This chapter provides information on how to deploy the Cisco Identity Services

Network Security Devices Explained: Types, Examples ...

Network security devices are hardware or virtual appliances designed to protect computer networks from unauthorized access, data

Deployment modes | TrendAI™

When you create a new profile, you can use the Default deployment mode or choose from a list of available deployment modes, and

Securing Network Infrastructure Devices

Harden Network Devices A fundamental way to enhance network infrastructure security is to safeguard networking

Cisco FTD Deployment Modes

In Firewall/IPS mode you have the option to choose between routed and transparent mode and in IPS only devices you can choose

5 Step Strategy for Enterprise Mobile Deployment

The publication provides a five-step enterprise mobile device deployment life cycle to help organizations build and

Please read

Consistent access control across wired, wireless and VPN Networks. 802.1X, MAC, Web Authentication and Easy connect for

What is Network Security?

This solution includes rapid deployment and scaling up or down to meet changes in network security demands. By tightly integrating

Security Considerations for Mobile Device Deployments

SECURITY CONSIDERATIONS FOR MOBILE DEVICE DEPLOYMENTS JUNE 2020
ITSAP.70.002 When selecting an approach to

VPN Deployment Models and Architecture

Such factors include deciding which devices have sufficient processing power to maintain wire speed, even with heavy traffic and

Security Devices

View example topologies for the different types of security devices you can deploy with the SSL Visibility appliance.

Security considerations for mobile device deployments (ITSAP.70.002)

Alternate format: Security considerations for mobile device deployments - ITSAP.70.002 (PDF, 228 KB) When

Network Security Model and Components: A Complete Guide

Explore the fundamentals of the network security model, its key components, and how it ensures robust protection for

Check Point Firewalls – Various Deployment Modes for Flexible Security

Below is a detailed explanation of each deployment mode, including standalone, distributed, cloud, and virtualized

Different types of firewall deployment modes ~ Network & Security ...

iv) Data Center Firewall --> Performance and Security requirements are more than the other deployment modes as

End user device security for Bring-YourOwn-Device (BYOD) deployment ...

Foreword ITSM.70.003 End User Device Security for Bring-Your-Own-Device Deployment Models is an unclassified publication

A Deep Dive into Deployment Considerations for Network Security

Explore our comprehensive guide on Deployment for Network Security Monitoring. We'll delve into key strategies to

Demystifying Firepower Deployment Modes

There are two mode of deployments: For each mode, we have others modes. 1 rewall Mode. 2.IPS Mode. The

Deployment Modes

This section provides details on how the SSL Visibility appliance can be deployed in a network and how it operates in each of the

Mobile Device Deployment Models – CompTIA Security+ SY0-501 – 2.5

Review mobile device deployment models in CompTIA Security+ SY0-501 2.5. Learn corporate and personal ownership options with

BYOD vs. CYOD vs. COPE: What's the Difference?

You need a plan in place that outlines responsibilities for maintaining device security, protecting company data, and

Security Devices

Passive Security Devices A passive device consumes traffic without sending it back to the SSL Visibility appliance. When a security

Zero Trust Architecture

Zero trust focuses on protecting resources (assets, services, workflows, network accounts, etc.), not network segments, as the

Deployment Modes and Firewall Features on Cisco ASA and Cisco

Cisco ASA supports several deployment modes that determine how the firewall is inserted into the network, how

How to demystify Firepower Deployment Modes

Inline mode differs from transparent mode, in which multiple interfaces can be added in each bridge group and each bridge group

Deployment Modes

There are two main deployment modes for the SSL Visibility appliance, with many variants within each mode. The following sections

Cisco ISE Secure Wired Access Prescriptive Deployment Guide

Table of Contents Cisco ISE Secure Wired Access Prescriptive Deployment Guide
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Deployment Modes and Firewall Features on Cisco ASA and Cisco

Deployment mode and firewall feature design are what separate a “configured” ASA or FTD from one that's reliable under real traffic,

Web Application Firewall | WAF | WAF Deployment Modes

Cloud-Native Cloud Networking Cloud Security Hybrid Cloud Multi-Cloud Cloud
Storage Containerization Credential Stuffing

ISE Deployment Modes ~ Network & Security Consultant

ii) Two Node Method: --> This Method is also called as Distributed Deployment. --> In this method, all the personas are

5G NSA vs. SA: How do the deployment modes differ?

Learn the difference between non-standalone and standalone 5G, including how each architecture affects cost,

Understanding Cisco Secure Firewall Deployment Modes

In Cisco Secure Firewall (formerly Firepower Threat Defense / FTD), deployment modes define how the device is

Configure security, email, VPN, and Wi-Fi device configuration profiles ...

Focus on device security, including installing antivirus, creating a strong password policy, and regularly installing

Overview of the SSL Visibility Deployment Modes

Four basic connectivity modes define how the SSL Visibility appliance and the associated security device are connected to each

Contact Us

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