

Configure the core switch based on monitoring



Overview

Once you've added the new host and service definitions to the switch.cfg file, you're ready to start monitoring the router/switch.

Key Takeaways

Use monitoring insights from SNMP, NPM tools, or management platforms to optimize core switch performance and reliability.

Begin by gathering performance metrics from your core switch using monitoring tools or protocols:

- **SNMP (Simple Network Management Protocol):** Pulls data on CPU, memory, port status, traffic, and errors from the switch .
- **Network Performance Monitoring (NPM) tools:** Convert raw SNMP data into actionable insights, highlighting bottlenecks or underutilized ports .
- **Vendor-specific tools:** For Cisco switches, use OpManager templates or Cisco DCNM to monitor device health, SPAN sessions, and environmental metrics .

Step 2: Analyze Metrics

Focus on key indicators:

- **Port utilization:** Identify heavily loaded or idle ports.
- **Error rates:** Check for CRC errors, collisions, or packet drops.

- CPU and memory usage: High usage may indicate misconfigurations or excessive traffic.

- Traffic patterns: Determine if certain VLANs or applications are causing congestion.

Step 3: Apply Configuration Adjustments

Based on monitoring insights, configure the switch to optimize performance:

- Port configuration: Adjust speed, duplex, or enable/disable unused ports.
- VLAN and QoS policies: Prioritize critical traffic and segment networks to reduce congestion.
- SPAN/ERSPAN sessions: Mirror traffic for deeper analysis or security monitoring .
- Load balancing: Configure EtherChannel or LAGs to distribute traffic evenly.
- Scheduling tasks: Use built-in schedulers to automate backups, QoS changes, or firmware updates .

Step 4: Implement Automated Management

- Configuration templates: Apply standardized templates to multiple switches for consistency .
- Session Manager or scripts: Batch apply verified configurations to reduce human error .
- Alerts and thresholds: Set SNMP traps or NPM alerts to proactively detect issues.

Step 5: Continuous Monitoring and Review

- Regularly review logs, SPAN captures, and performance dashboards.
- Adjust configurations dynamically based on traffic trends and error reports.
- Ensure NTP synchronization for accurate timestamp correlation across devices . By combining real-time monitoring, analysis, and automated configuration, you can maintain optimal performance, prevent outages, and ensure your core switch operates efficiently under varying network loads.

Article Content

Network Switch Monitoring with SNMP: How To Guide

Learn how to monitor network switches using SNMP and NPM. Keep network switch performance sharp, spot issues

Monitoring Routers and Switches · Nagios Core Documentation

Once you've added the new host and service definitions to the switch.cfg file, you're ready to start monitoring the router/switch. To do

10 Monitor a network switch or router with Zabbix

This guide walks you through the steps required to start basic monitoring of your network switch or router using Zabbix. A Cisco

Top 10 Network Switch Monitoring Tools & Best Practices for 2025

This guide equips network administrators, IT operations professionals, and procurement decision-makers to select and implement

Configuring Cores

Core files can be saved either manually by a user or automatically at the time of the fault. If a core file is created, preserve it by

Configure Remote Network Monitoring (RMON) Events Control Settings

This article provides instructions on how to configure RMON event settings on your switch through the CLI.

Network Switch Management & Monitoring

Boost your network performance and availability with automated switch management and monitoring. Use

WORLD WIDE WEB JOURNAL Home

Internet communications tools Document preparation Computing industry Computing standards, RFCs and guidelines Computer

Cisco core switches high availability

For high availability you will need to enable spanning tree protocol on all switches (core, distribution & access). You

Monitoring Routers and Switches · Nagios Core Documentation

Web-Based Configuration provides advanced configuration features Monitoring Wizards make it easy to monitor new devices,

Guide to Basic Switch Configuration | Auvik

Switch configuration on your own can seem like a daunting task. Use this handy guide to get your network switch up

[Check_mk (english)] How to monitor Core Switch

Dear all, This is in the planning of monitoring a few of Cisco 6809 core switches. These switches also have 10 GB line

Cisco Nexus 5000 Series NX-OS Software Configuration Guide

The Switched Port Analyzer (SPAN) feature (sometimes called port mirroring or port monitoring) selects network

Configure Remote Network Monitoring (RMON) Alarms on a Switch

It is a standard monitoring specification which enables different network monitors and console systems to exchange

Switch Management

In this video, you will learn how to use various tools to manage and monitor Edgecore network switches, such as CLI,

Top 10 Network Switch Monitoring Tools & Best Practices for 2025

For enterprise networking procurement, consider Router-Switch for competitive quotes on Cisco, Juniper, and Aruba equipment,

How To Monitor Network Switch and Ports Using Nagios

7. Add services to monitor multiple switch ports together Sometimes you may need to monitor the status of multiple

Configure Remote Network Monitoring (RMON) Events Control Settings

This article provides instructions on how to configure RMON event settings on your switch through the CLI.

Network Switch Management & Monitoring

Boost your network performance and availability with automated switch management and monitoring. Use

WORLD WIDE WEB JOURNAL Home

Internet communications tools Document preparation Computing industry Computing standards, RFCs and guidelines Computer

Cisco core switches high availability

For high availability you will need to enable spanning tree protocol on all switches (core, distribution & access). You

Monitoring Routers and Switches · Nagios Core Documentation

Web-Based Configuration provides advanced configuration features Monitoring Wizards make it easy to monitor new devices,

Guide to Basic Switch Configuration | Auvik

Switch configuration on your own can seem like a daunting task. Use this handy guide to get your network switch up

Core Switch

Core switches are defined as high-capacity switches located at the top of a cloud data center network, connecting aggregation

Introduction to Core Switch Configuration

A switch that functions as part of a router and operates at the third layer of the OSI network standard model, the network layer. The

How to Configure a Cisco Switch (step by step)

If you're looking to configure a switch for the first time, this post is for you. Learn step-by-step configuration commands

Troubleshoot Switch Port and Interface Problems

This document describes how to determine why a port or interface experiences problems.

[Check_mk (english)] How to monitor Core Switch

Dear all, This is in the planning of monitoring a few of Cisco 6809 core switches. These switches also have 10 GB line

Cisco Nexus 5000 Series NX-OS Software Configuration Guide

The Switched Port Analyzer (SPAN) feature (sometimes called port mirroring or port monitoring) selects network

Configure Remote Network Monitoring (RMON) Alarms on a Switch

It is a standard monitoring specification which enables different network monitors and console systems to exchange

Switch Management

In this video, you will learn how to use various tools to manage and monitor Edgecore network switches, such as CLI,

Network Switch Monitoring with SNMP: How To Guide

Learn how to monitor network switches using SNMP and NPM. Keep network switch performance sharp, spot issues

Monitoring Routers and Switches · Nagios Core Documentation

Once you've added the new host and service definitions to the switch.cfg file, you're ready to start monitoring the router/switch. To do

10 Monitor a network switch or router with Zabbix

This guide walks you through the steps required to start basic monitoring of your network switch or router using Zabbix. A Cisco

Top 10 Network Switch Monitoring Tools & Best Practices for 2025

This guide equips network administrators, IT operations professionals, and procurement decision-makers to select and implement

Configuring Cores

Core files can be saved either manually by a user or automatically at the time of the fault. If a core file is created, preserve it by

Core Switches performance monitoring

With the help of our Core Switches device template, you can easily discover and monitor critical performance metrics without any

Smart Monitoring and Alerting on Cisco MDS 9000 Series Switches

As a progressive step, a complete overhaul has been implemented to unify and simplify the configuration and

Network Switch Management & Monitoring

Boost your network performance and availability with automated switch management and monitoring. Use

Switch Monitoring Solutions | Nagios

Switch monitoring is the practice of polling network switches on a schedule to track port status, interface throughput, errors, and

Switch Monitoring

We will show you how easy it is to set up monitoring of a network switch in 10-Strike Network Monitor Pro which has the graphic map

Network Switch Monitoring with SNMP: How To Guide

Learn how to monitor network switches using SNMP and NPM. Keep network switch performance sharp, spot issues

Monitoring Routers and Switches · Nagios Core Documentation

Once you've added the new host and service definitions to the switch.cfg file, you're ready to start monitoring the router/switch. To do

10 Monitor a network switch or router with Zabbix

This guide walks you through the steps required to start basic monitoring of your network switch or router using Zabbix. A Cisco

Top 10 Network Switch Monitoring Tools & Best Practices for 2025

This guide equips network administrators, IT operations professionals, and procurement decision-makers to select and implement

Related Video Reference

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

Contact Us

Continue your research online:

Website: <https://thegalleryselfcatering.co.za>

Technical inquiry: <https://thegalleryselfcatering.co.za/contact.html>

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

