



OpenNMS Horizon

Rapid Release, Latest Features

OpenNMS Horizon is an open-source solution that helps you visualize and monitor everything on your local and remote networks. It offers comprehensive fault, performance, traffic monitoring, and alarm generation in one place. Highly customizable and scalable, Horizon easily integrates with your core business applications and workflows.

Broadest Suite of Supported Protocols Out of the Box

SNMP	JSON	WinRM
XML	SQL	JMX
SFTP	FTP	JDBC
HTTP	HTTPS	VMware
WS-Management		Prometheus

Features

Inventory Management

Supports any type of provisioning: auto, directed, topology, interface, and service discovery. Interoperates with virtually any configuration management system.

Performance Management

Broadest suite of data collection protocols (14) means no need for third-party tools. Streaming telemetry, real-time custom thresholding, trend analysis, forecasting. Time-series performance data analysis, visual plotting and operational forecasting in real-time.

Fault Management

Service assurance via smart periodic polling. Autonomous device problem reporting. Message enrichment.

Business Service Monitoring

Monitor and model high-level business services to quickly identify the most critical problems affecting them.

Remote Data Collection

Minion provides access to the inaccessible while application perspective monitoring monitors service availability at specific locations from different perspectives.

BGP Monitoring Protocol (BMP) Support

Monitor Border Gateway Protocol (BGP) sessions and BGP routing information on the routing device. Use this information, status updates, and statistics for advanced monitoring and management.

Traffic Management

Five flow protocols. 350,000+ flows/sec. Deep-dive analysis, enterprise reporting.

Application Perspective Monitoring

Monitor a service's availability from different perspectives. Pinpoint not only where an issue occurs, but its impact on a user's or machine's digital experience.

Platform Solution

Configurability

Configure most features through the web UI or XML scripting. Customize Meridian to do what you want the way you want it.

Scalability

Monitor tens of thousands of devices via a distributed and tiered system: 1.2m data points every 5 minutes, 5,000+ interfaces, hundreds of thousands of discrete devices, millions of performance metrics, thousands of events per second, and thousands of remote monitors.

Enterprise Reporting and Visualization

Real-time notifications for high-priority response. Customizable Grafana dashboards. Resource graphs, database reports, charts.

Topology Maps

Define complex layered topologies. Semantics and focal point feature allow you to adjust and enhance the map quickly to customize your view and easily integrate topology maps into your service problem management workflow.

Event/Alarm Management and Correlation

Alarm and Event Management

First-class events for service assurance and performance management. Alarm workflows, ticketing integration, and flexible correlation. Customizable notifications via email, SMS, and Webhooks.

Alarm Correlation

An artificial intelligence framework logically groups related faults (alarms) into higher level objects (situations) so you can quickly detect, visualize, prioritize, and resolve situations across the entire IT infrastructure.

Technical Requirements

Minimum System Requirements	Java 8-11. Most recent version of JDK 11 recommended. PostgreSQL 10 or higher (up to and including 13) Minimum for proof-of-concept type workload: 4GB RAM 2 CPUs	
Operating System	RHEL 7.x, 8.x CentOS 7.x, 8.x	
	Proof of concept (testing)*	Minimum server specification**
CPU	2 GHz dual core x86_64	3 GHz quad core x86_64 and above
RAM	4 GB (physical)	16 GB (physical) and above
Storage (disk space)	50 GB HDD, SSD	1 TB with SSD and above

Common Outbound Ports

OpenNMS can monitor just about any service on any device, so it is impossible to present an exhaustive list.

In the case of managing networked devices and servers, the following list covers the bulk of traffic:

ICMP	(echo-request)
SNMP	(161/udp)
SSH	(22/tcp)
HTTP	(80/tcp)
HTTPS	(443/tcp)

* You can install the packages and the services will start up

** Does not take into account your intended workload (e.g., network size, number of monitored metrics, flows, events, and data retention requirements).