

Sentinel™

System Requirements

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Sentinel System Requirements

The *System Requirements* document lists the hardware and software requirements for Sentinel and Sentinel Agent Manager.

Intended Audience

This guide is intended for Sentinel administrators and consultants.

Other Information in the Library

The library provides the following information resources:

Installation and Configuration Guide

Provides an introduction to Sentinel and explains how to install and configure Sentinel.

Administration Guide

Provides the administration information and tasks required to manage a Sentinel deployment.

User Guide

Provides conceptual information about Sentinel. This book also provides an overview of the user interfaces and step-by-step guidance for many tasks.

1 Product Requirements for Sentinel

- ♦ [“Software Requirements” on page 7](#)
- ♦ [“System Requirements for Traditional Storage” on page 10](#)

Software Requirements

- ♦ [“Sentinel Server Operating Systems and Platforms” on page 7](#)
- ♦ [“Data Synchronization Platforms” on page 9](#)
- ♦ [“Client Software” on page 9](#)

Sentinel Server Operating Systems and Platforms

IMPORTANT: After you install any of the certified operating systems listed in this section, you need to install additional RPMs before you install Sentinel. For more information about the additional RPMs, see [Installation Checklist](#).

Software	Software
Sentinel Server, Collector Manager, or Correlation Engine	<p>Sentinel runs on x86_64-based hardware and operating systems. It can run in Standard and FIPS 140-2 modes:</p> <ul style="list-style-type: none"> ♦ SUSE Linux Enterprise Server (SLES) 15 SP5 64-bit ♦ SUSE Linux Enterprise Server (SLES) 15 SP4 64-bit ♦ SUSE Linux Enterprise Server (SLES) 12 SP5 64-bit (for both traditional and appliance installations) ♦ Red Hat Enterprise Linux Server (RHEL) 9.2 64-bit ♦ Red Hat Enterprise Linux Server (RHEL) 9.1 64-bit ♦ Red Hat Enterprise Linux Server (RHEL) 9.0 64-bit ♦ Red Hat Enterprise Linux Server (RHEL) 8.8 64-bit ♦ Red Hat Enterprise Linux Server (RHEL) 8.7 64-bit ♦ Red Hat Enterprise Linux Server (RHEL) 8.6 64-bit ♦ Red Hat Enterprise Linux Server (RHEL) 7.9 64-bit
Sentinel Server Software Appliance (includes SLES 12 SP5 operating system)	<ul style="list-style-type: none"> ♦ ISO appliance <p>IMPORTANT: For the ISO appliance to work properly, you must disable the EFI BIOS and use the Legacy BIOS.</p> <ul style="list-style-type: none"> ♦ VMWare ESX 6.7 ♦ VMWare ESX 6.5 ♦ Hardware without a pre-installed operating system ♦ OVF appliance <ul style="list-style-type: none"> ♦ VMWare ESX 6.7 ♦ VMWare ESX 6.5 ♦ VHD appliance <ul style="list-style-type: none"> ♦ Hyper-V Server 2019 ♦ Hyper-V Server 2016 ♦ Hyper-V Server 2012 R2 ♦ Windows 10.x/11

Software	Software
Data indexing	<ul style="list-style-type: none"> ◆ OpenSearch 1.3.9 Download URL: https://opensearch.org/lines/1x.html
API Testing Tools	<ul style="list-style-type: none"> ◆ Talend API Tester ◆ Boomerang SOAP & REST client

Notes:

- ◆ Sentinel is certified on ext3 (SUSE), ext4 (Red Hat), and XFS file systems.
- ◆ Sentinel is not supported if the operating system is in FIPS mode.
- ◆ Sentinel is not certified on Open Enterprise Server installs of SLES.

Data Synchronization Platforms

Sentinel includes a feature to synchronize data subsets and summaries to a data warehouse.

Feature	Runs On
Data Synchronization	<ul style="list-style-type: none"> ◆ Microsoft SQL Server 2017 ◆ Microsoft SQL Server 2016 ◆ Microsoft SQL Server 2014 ◆ Microsoft SQL Server 2012 ◆ Microsoft SQL Server 2008 R2 ◆ Oracle Database 19c ◆ Oracle Database 12c ◆ Oracle Database 11g ◆ PostgreSQL ◆ IBM DB2

Client Software

- ◆ **Java** Java 1.8 is required to launch Solution Designer and Sentinel Control Center.
- ◆ **Browsers** The Sentinel interface is optimized for viewing at 1280 x 1024 or higher resolution in the following supported browsers:
 - ◆ Microsoft Edge
 - ◆ Google Chrome
 - ◆ Mozilla Firefox

Although not officially certified, other modern browsers are known to work reasonably well with the Sentinel interface.

System Requirements for Traditional Storage

This section provides sizing information based on the testing performed at OpenText with the hardware available to us at the time of testing. Your results may vary based on details of the hardware available, the specific environment, the specific type of data processed, and other factors. It is likely that larger, more powerful hardware configurations exist that can handle a greater load, and for even greater scalability Sentinel is explicitly designed to support distributed processing across multiple systems. If your environment is at all complex, contact OpenText Consulting Services or any of the Sentinel partners prior to finalizing your Sentinel architecture as they have additional spreadsheets and tools to calculate architectural constraints.

System Requirements for Sentinel

NOTE

- ♦ All-in-one configurations put all the varied processing loads (data collection, processing, analysis, user interface, search, etc) into one server rather than distributing it across multiple servers within the system. While an all-in-one configuration can work well for a smaller-scale environment that does not make heavy simultaneous use of all system features, the competing loads can potentially cause issues if the system is under stress (which is sometimes the case exactly when you need it most). Sentinel will prioritize critical functions such as data collection and storage, but (for example) UI performance may suffer. For this reason, you should deploy remote Collector Managers and/or Correlation Engines in most environments.
- ♦ You can use Intel Hyper-Threading Technology (Intel HT Technology) with the Sentinel server to positively impact the load the system can handle. The following table specifies the scenarios in which Intel HT Technology was used in testing.

Similarly, you should enable multithreading on Collector Managers. You can configure a Collector instance to use multiple threads, which allows the Collector to process a higher number of events per second. To configure the number of threads, in the Edit Collector dialog box, click the Configure Collector tab. Set Number of Threads to the number of threads you want to use. With this feature, a single 8-core Collector Manager can process 10K EPS. However, the test results listed below do not include multithreading on Collector Manager.

NOTE: The CPU and memory resources for a Collector Manager are subject to change depending on the EPS and the number of Collectors. Therefore, you should use virtual machines for Collector Managers.

Hardware Requirements

- ♦ [“System Requirements for OpenSearch” on page 23](#)
- ♦ [“OpenSearch Cluster Nodes” on page 24](#)

Category	Demo All-in-One (Not intended for production)	Medium Distributed Agentless Data Collection	Medium Distributed Agent-based Data Collection	Large Distributed Agent-less Data Collection	Extra Large
Total System Capacity					
Retained EPS Capability: The events per second rate processed by real-time components and retained in storage by the system.	100 EPS	3000 EPS	2500 EPS	21000 EPS	21000+ EPS

Category	Demo All-in-One (Not intended for production)	Medium Distributed Agentless Data Collection	Medium Distributed Agent-based Data Collection	Large Distributed Agent-less Data Collection	Extra Large
Operational EPS Capability: The total events per second rate received by the system from event sources. This includes data dropped by the system's intelligent filtering capability before being stored and is the number used for the purposes of EPS-based license compliance.	100 EPS	3000+ EPS	2500+ EPS	21000+ EPS	25000+ EPS
Sentinel Server Hardware					

Category	Demo All-in-One (Not intended for production)	Medium Distributed Agentless Data Collection	Medium Distributed Agent-based Data Collection	Large Distributed Agent-less Data Collection	Extra Large
CPU	Intel(R) Xeon(R) CPU E5420@ 2.50GHz (4 CPU cores), without Intel HT Technology	Two Intel(R) Xeon(R) CPU ES-2650 O@ 2.00GHz (4 core) CPUs (8 cores total), without Intel HT Technology	Two Intel(R) Xeon(R) CPU ES-2680 O@ 2.70GHz (6 cores per CPU; 12 cores total)	Two Intel(R) Xeon(R) CPU ES-2695 v2@ 2.40GHz(12 core) CPUs (24 cores total), with Intel HT Technology	Contact Micro Focus Services.
Primary Storage: Primary indexed event data optimized for fast retrieval.	500 GB 7.2k RPM drive	10 x 300 GB SAS 15k RPM (Hardware RAID 10)	6 x 146 GB SAS 10K RPM (RAID 10, stripe size 128k)	12 TB, 20 x 600 GB SAS 15k RPM (Hardware RAID 10, stripe size 128k)	
Secondary Storage: Secondary indexed event data optimized for storage efficiency. Includes a copy of the data in local storage but is only searched if the data is not found in primary storage.	For information about configuring secondary storage, see Configuring Secondary Storage Locations in the Sentinel Administration Guide .				
Memory	4 GB 8 GB, when Sentinel Agent Manager, NetIQ Secure Configuration Manager, or NetIQ Change Guardian are connected	24 GB		128 GB	

Remote Collector Manager #1 Hardware

Category	Demo All-in-One (Not intended for production)	Medium Distributed Agentless Data Collection	Medium Distributed Agent-based Data Collection	Large Distributed Agent-less Data Collection	Extra Large
CPU	Not Applicable (Local Embedded CM Only)	Intel(R) Xeon(R) CPU E5-2650 O@ 2.00GHz, 4 cores (virtual machine)	Two Intel(R) Xeon(R) CPU E5-2680 O@ 2.70GHz (4 cores per CPU; 8 cores total)	Two Intel(R) Xeon(R) CPU E5-2695 v2@ 2.40GHz(8 core) CPUs 16 cores total)	Contact Micro Focus Services.
Storage		100 GB		250 GB	
Memory		4 GB	8 GB	24 GB	
Remote Collector Manager #2 Hardware					
CPU	Not Applicable			Two Intel(R) Xeon(R) CPU E5-2695 v2@ 2.40GHz(8 core) CPUs 16 cores total)	Contact Micro Focus Services.
Storage				250 GB	
Memory				24 GB	
Agent Manager Hardware					
CPU	Not Applicable (Agent-less collection only)	Two Intel Xeon 5140 @2.33 GHz (2 cores per CPU; 4 cores total)	Not Applicable		Contact Micro Focus Services.
Storage		4 x 300 GB SAS 10K RPM (RAID 10, stripe size 128k)			
Memory		16 GB			
Remote Correlation Engine Hardware					
CPU	Not Applicable (Local Embedded CE Only)	Intel(R) Xeon(R) CPU E5-2650 O@ 2.00GHz, 4 cores (virtual machine)	Intel(R) Xeon(R) CPU E5-2680 O@ 2.70GHz, 4 cores (virtual machine)	Two Intel(R) Xeon(R) CPU E5-2695 v2@ 2.40GHz, 4 core per CPU (8 cores total)	Contact Micro Focus Services.
Storage		100 GB			
Memory		8 GB	16 GB		
Data Collection					

Category	Demo All-in-One (Not intended for production)	Medium Distributed Agentless Data Collection	Medium Distributed Agent-based Data Collection	Large Distributed Agent-less Data Collection	Extra Large
Collector Manager (CM) Distribution: The number of event sources and events per second load placed on each Collector Manager. The filtered percentage indicates how many normalized events were filtered out immediately after collection, without being stored or passed to analytic engines. Note that the non-normalized raw log data that the normalized events are based off of is not affected by filtering and is always stored. The Local Embedded CM is located on the Sentinel Server machine.	Local Embedded CM <ul style="list-style-type: none"> ◆ Event Sources: 101 ◆ EPS: 103 ◆ Filtered: 0% 	Local Embedded CM <ul style="list-style-type: none"> ◆ Not Used Remote CM #1 <ul style="list-style-type: none"> ◆ Event Sources: 2500 ◆ EPS: 3000 	Local Embedded CM <ul style="list-style-type: none"> ◆ Not Used Remote CM #1 <ul style="list-style-type: none"> ◆ Event Sources: 3500 ◆ EPS: 2500 ◆ Filtered: 0% 	Local Embedded CM <ul style="list-style-type: none"> ◆ Not Used Remote CM #1 <ul style="list-style-type: none"> ◆ Event Sources: 200 ◆ EPS: 10200 ◆ Filtered: 1% ◆ Raw Data Enabled Remote CM #2 <ul style="list-style-type: none"> ◆ Event Sources: 200 ◆ EPS: 10200 ◆ Filtered: 1% ◆ Raw Data Enabled 	Contact Micro Focus Services.

Category	Demo All-in-One (Not intended for production)	Medium Distributed Agentless Data Collection	Medium Distributed Agent-based Data Collection	Large Distributed Agent-less Data Collection	Extra Large
Collectors Used	<p>Oracle Solaris 2011.1r2</p> <ul style="list-style-type: none"> ♦ Sources: 100 ♦ EPS: 100 <p>Juniper Netscreen 2011.1r2</p> <ul style="list-style-type: none"> ♦ Sources: 1 ♦ EPS: 3 	<p>Each Collector had its own Syslog server.</p> <p>Oracle Solaris 2011.1r2</p> <ul style="list-style-type: none"> ♦ Sources: 1000 ♦ EPS: 1500 <p>Microsoft AD and Windows version 2011.1r4</p> <ul style="list-style-type: none"> ♦ Sources: 1000 ♦ EPS: 1000 <p>Sourcefire Snort 2011.1 r1</p> <ul style="list-style-type: none"> ♦ Sources: 450 ♦ EPS: 500 <p>Juniper Netscreen 2011.1r2</p> <ul style="list-style-type: none"> ♦ Sources: 20 ♦ EPS: 10 	<p>Agent Manager event source server 1</p> <ul style="list-style-type: none"> ♦ Sources: 3500 ♦ EPS: 2500 <p>IBM i series 2011.1r5</p> <ul style="list-style-type: none"> ♦ Sources: 1500 ♦ EPS: 1000 <p>NetIQ Agent Manager 2011.1r4</p> <ul style="list-style-type: none"> ♦ Sources: 1150 ♦ EPS: 500 <p>NetIQ Unix Agent 2011.1r4</p> <ul style="list-style-type: none"> ♦ Sources: 1150 ♦ EPS: 500 <p>Juniper Netscreen 2011.1r2</p> <ul style="list-style-type: none"> ♦ Sources: 2 ♦ EPS: 1 	<p>Each of the following Collectors had its own Syslog server, parsing at the following EPS rates</p> <ul style="list-style-type: none"> ♦ Fortinet FortiGate 2011.1r3 <ul style="list-style-type: none"> ♦ RCM #1: 1700 ♦ RCM #2: 1700 ♦ Palo Alto Networks Firewall 2011.1r2 <ul style="list-style-type: none"> ♦ RCM #1: 1700 ♦ RCM #2: 1700 ♦ Dumballa Failsafe2011.1r1 <ul style="list-style-type: none"> ♦ RCM #1: 1700 ♦ RCM #2: 1700 ♦ McAfee Firewall Enterprise 2011.1r4 <ul style="list-style-type: none"> ♦ RCM #1: 1700 ♦ RCM #2: 1700 ♦ Microsoft Active Directory and Windows 	Contact Micro Focus Services.

Category	Demo All-in-One (Not intended for production)	Medium Distributed Agentless Data Collection	Medium Distributed Agent-based Data Collection	Large Distributed Agent-less Data Collection	Extra Large
Total	<ul style="list-style-type: none"> ◆ Event Sources: 101 ◆ EPS: 103 ◆ Filtered: 0% 	<ul style="list-style-type: none"> ◆ Event Sources: 2500 ◆ EPS: 3010 ◆ Filtered: 0% 	<ul style="list-style-type: none"> ◆ Event Sources: 3500 ◆ EPS: 2501 ◆ Filtered: 0% 	<ul style="list-style-type: none"> ◆ Event Sources: 400 ◆ EPS: 20411 ◆ Filtered: 1% 	Contact Micro Focus Services.

Data Storage

Category	Demo All-in-One (Not intended for production)	Medium Distributed Agentless Data Collection	Medium Distributed Agent-based Data Collection	Large Distributed Agent-less Data Collection	Extra Large
<p>How far into the past will users search for data on a regular basis?.</p> <p>Amount of locally cached data for higher search performance</p>	7 days				Contact Micro Focus Services.
<p>What percentage of searches will be over data older than the number of days above?</p> <p>Impacts the amount of input/output operations per second (IOPS) for local or network storage.</p>	10%				
<p>How far into the past must data be retained?</p> <p>Impacts how much disk space is required to retain all the data. If secondary storage is enabled, this impacts</p>	14 days				

Category	Demo All-in-One (Not intended for production)	Medium Distributed Agentless Data Collection	Medium Distributed Agent-based Data Collection	Large Distributed Agent-less Data Collection	Extra Large
User Activity					

Category	Demo All-in-One (Not intended for production)	Medium Distributed Agentless Data Collection	Medium Distributed Agent-based Data Collection	Large Distributed Agent-less Data Collection	Extra Large
<p>How many users will be active at the same time, on average?</p> <p>Impacts the amount of IOPS for primary and secondary storage and other items.</p>	1				Contact Micro Focus Services.
<p>How many searches will an active user be performing at the same time, on average?</p> <p>Impacts the amount of IOPS for primary and secondary storage.</p>	1 100M events per search	1 300M events per search	Not tested with search or reporting load	1 2B events per search	
<p>How many reports will an active user be running at the same time, on average?</p> <p>Impacts the amount of IOPS for primary and secondary storage.</p>	1 200k events per report	1 500k events per report		1 600k events per report	

Category	Demo All-in-One (Not intended for production)	Medium Distributed Agentless Data Collection	Medium Distributed Agent-based Data Collection	Large Distributed Agent-less Data Collection	Extra Large
Analytics					

Category	Demo All-in-One (Not intended for production)	Medium Distributed Agentless Data Collection	Medium Distributed Agent-based Data Collection	Large Distributed Agent-less Data Collection	Extra Large
What percentage of the event data is relevant to correlation rules? Amount of data the Correlation Engine will process.	100% (out of the box) (3 correlations per second)		100% (out of the box) (1 correlation per second)	100% (out of the box) (10 correlations per second)	Contact Micro Focus Services.
What percentage of the event data is relevant to Event Visualization? (Data indexed to OpenSearch)	100% (out of the box)				
What percentage of the event data is relevant to IP Flows? (IP Flow events indexed to OpenSearch)	3% (500 IP Flow events per second)		5% (100 IP Flow events per second)	10% (10 IP Flow events per second)	
How many source IPs or source host names are relevant to generic hostname resolution service? (Number of DNS lookups impacting	200			100	

Category	Demo All-in-One (Not intended for production)	Medium Distributed Agentless Data Collection	Medium Distributed Agent-based Data Collection	Large Distributed Agent-less Data Collection	Extra Large
How many events are relevant to threat intelligence feeds?	10 EPS				
High Availability	Not Used				
Notes: Notable functionality disabled or warnings of what happens when exceeding the system load described above.				Increasing Retained EPS will eventually cause instability in this system configuration.	

System Requirements for OpenSearch

You must install and set up OpenSearch nodes in a cluster mode if you want to use the Event Visualizations feature. For more information, see the “Configuring the Visualization Data Store” in the [Sentinel Installation and Configuration Guide](#).

You must set up OpenSearch as recommended in the following table:

Component	Recommendation
Indexing Node Data Storage	<ul style="list-style-type: none"> ♦ Operating system and application binaries and configuration <ul style="list-style-type: none"> ♦ Fault tolerant RAID ♦ Data Storage <ul style="list-style-type: none"> ♦ Disks in JBOD (Just a Bunch Of Disks) configuration ♦ SSD or 15000 RPM SATA
CPU	Intel(R) Xeon(R) CPU ES-2695 v2@ 2.40GHz

OpenSearch Cluster Nodes

	OpenSearch Nodes	CPU per Node	Memory (GB) per Node	Disks per Node
100 EPS	1 data node + 1 master node (OpenSearch node in Sentinel)	4	4	2
3000 EPS	2 data nodes + 1 master node (OpenSearch node in Sentinel)	8	24	3
20000 EPS	4 data nodes + 1 master node (OpenSearch node in Sentinel)	8	32	4

2 Product Requirements for Sentinel Agent Manager

- ♦ [“Software Requirements for Sentinel Agent Manager” on page 25](#)
- ♦ [“System Requirements for Sentinel Agent Manager” on page 25](#)

Software Requirements for Sentinel Agent Manager

Software	Runs On
Sentinel Agent Manager Central Computer and Sentinel Agent Manager Console	<ul style="list-style-type: none">♦ Microsoft Windows Server 2022♦ Microsoft Windows Server 2019♦ Microsoft Windows Server 2016
Sentinel Agent Manager Database	<ul style="list-style-type: none">♦ Microsoft SQL Server 2017♦ Microsoft SQL Server 2016♦ Microsoft SQL Server 2014♦ Microsoft SQL Server 2012♦ Microsoft SQL Server 2012 Express

System Requirements for Sentinel Agent Manager

NOTE: These are minimum recommendations.

	Requirements			
Sentinel Agent Manager Component	Processor	Disk Space	Memory	Software
Sentinel Agent Manager Central Computer	Dual processor dual-core AMD/Intel configuration	Depends on the event load estimated for your environment.	4 GB	<ul style="list-style-type: none"> ♦ Microsoft Message Queuing (MSMQ) 3.0 ♦ Microsoft .NET Framework 4.6.2 or later ♦ Microsoft Visual C++ 2017 Redistributable Package ♦ Microsoft Core XML Services (MSXML) 6.0 or later
Sentinel Agent Manager Database	Dual processor dual-core AMD/Intel configuration Quad processors recommended in environments expecting more than one million total events per day.	100 GB	4 GB	See “Software Requirements for Sentinel Agent Manager” on page 25.
Sentinel Agent Manager Agent	500 MHz Intel Pentium or equivalent	100 MB	40 MB NOTE: The amount of memory usage varies and depends on the modules you have installed and the products you are monitoring	Microsoft Visual C++ 2017 Redistributable Package

3 Event Sources

Sentinel supports a wide variety of endpoint event sources that can deliver security and operational events to Sentinel for processing along with other types of contextual data using modular, pluggable components. Sentinel provides both agents and agent-less options. For more information about the specific endpoints monitored by these agents, follow the links below.

Module/Plug-in	Compatible Versions and Endpoints
Security Agent for UNIX	<ul style="list-style-type: none">♦ Security Agent for UNIX 7.7♦ Security Agent for UNIX 7.6.4.1♦ Security Agent for UNIX 7.6.4♦ Security Agent for UNIX 7.6.3♦ Security Agent for UNIX 7.6.2♦ Security Agent for UNIX 7.6.1♦ Security Agent for UNIX 7.6
Windows Agent (available via Sentinel Agent Manager)	<ul style="list-style-type: none">♦ Microsoft Windows Server 2022♦ Microsoft Windows Server 2019♦ Microsoft Windows Server 2016♦ Microsoft Windows Server 2012 R2♦ Microsoft Windows Server 2012♦ Microsoft Windows 10, Version 21H2♦ Microsoft Windows 10, Version 21H1♦ Microsoft Windows 10
Agentless data collection	Sentinel Collectors

Module/Plug-in	Compatible Versions and Endpoints
ArcSight SmartConnectors	<ul style="list-style-type: none"> ♦ AirMagnet Enterprise Syslog ♦ Amazon Web Services CloudTrail ♦ ArcSight CEF Cisco FireSIGHT Syslog ♦ ArcSight Common Event Format Hadoop ♦ Barracuda Email Security Gateway Syslog ♦ Box ♦ HPE Aruba Mobility Controller Syslog ♦ IP Flow (Netflow/J-Flow) ♦ IP Flow Information Export (IPFIX) ♦ Kaspersky DB ♦ Microsoft Office 365 ♦ sFlow ♦ Vormetric CoreGuard Syslog ♦ Microsoft DHCP File ♦ SNMP Unified ♦ Microsoft DNS DGA Trace Log Multiple Server File ♦ MS DNS Trace Log Multiple Server File ♦ Bluecoat Proxy SG Multiple Server File ♦ Bluecoat Proxy SG Syslog ♦ Vmware ESXi Server Syslog ♦ Symantec Endpoint Protection Syslog ♦ Juniper Firewall Screen-OS Syslog ♦ Juniper IDP Series Syslog ♦ Juniper Network and Sec Mg Syslog ♦ Check Point Syslog ♦ Cisco Secure ACS Syslog ♦ Cisco Wireless LAN Controller Syslog ♦ Cisco ASA Syslog