ArcSight ArcSight Platform

Software Version: 24.2

ArcSight Platform Technical Requirements

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Technical Requirements for the ArcSight Platform 24.2

This document describes the system, software, and OS technical guidelines for effective operations and administration of the ArcSight Platform 24.2. The Platform enables you to deploy a combination of security, user, and entity solutions into a single cluster within the OPTIC Management Toolkit (OMT) environment. The core services for this OMT environment, including the Dashboard and user management, are provided by a common layer called Core.

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> To determine the best path for upgrading your environment to this release, see *ArcSight Platform Upgrade Paths* on the ArcSight documentation site.

> ⚠ Customers running on platforms not listed in this document or with untested configurations will be supported until the point OpenText determines the root cause is the untested platform or configuration. According to the standard defect-handling policies, OpenText will prioritize and fix issues we can reproduce on the tested platforms.

Additional Documentation

The ArcSight Platform documentation library includes the following resources.

- *Release Notes for ArcSight Platform 24.2*, which provides an overview of the products deployed in this suite and their latest features or updates.
- The Administrator's guide, which contains installation, user, and deployment guidance for the ArcSight software products and components that you deploy in the containerized platform. Choose the guide according to your deployment:
  - Administrator's Guide for the ArcSight Platform 24.2 - AWS Deployment

- Administrator's Guide for the ArcSight Platform 24.2 - Azure Deployment
- Administrator's Guide for the ArcSight Platform 24.2 - Google Cloud Deployment
- Administrator's Guide for the ArcSight Platform 24.2 - Off-Cloud Deployment

- *User's Guide to ArcSight Platform 24.2*, which is embedded in the product to provide both context-sensitive Help and conceptual information.

- *ArcSight Platform Upgrade Paths*, which provides guidance for determining the upgrade path for your ArcSight Platform version.

- Product Support Lifecycle Policy, which provides information on product support policies.

Software Requirements

This section lists the software needed to install and run the ArcSight Platform.

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For operating systems and SmartConnectors, the **Certified** label indicates our preferred platform; OpenText has performed extensive testing and has confidence that it will run without issues. The **Supported** label indicates an acceptable platform; OpenText has tested the software and has confidence that it will run without issues.

Operating Systems

Your environment must have at least a minimal installation of the specified operating system.

Category	Requirement
ArcSight Database cluster nodes	*A FIPS-compliant version of the operating systems:* **Certified** • Red Hat Enterprise Linux 9.2 (x86, x64) *A non-FIPS-compliant version of the operating systems:* **Certified** • Red Hat Enterprise Linux 9.2 (x86, x64) • Red Hat Enterprise Linux 8.8 (x86, x64)
Master/Worker cluster nodes	**Certified** • Red Hat Enterprise Linux 9.2 (x86, x64)) • Red Hat Enterprise Linux 8.8 (x86, x64) • Red Hat Enterprise Linux 7.9 (x86, x64) • CentOS 7.9 (x86, x64) **Supported** • Rocky Linux 8.9 (x86, x64)

Category	Requirement
ESM Server	**Certified** • Red Hat Enterprise Linux 9.2 (x86, x64) • Red Hat Enterprise Linux 8.8 (x86, x64) • Red Hat Enterprise Linux 7.9 (x86, x64) • CentOS 7.9 (x86, x64) • SUSE Linux Enterprise Server 15 Service Pack 5 • SUSE Linux Enterprise Server 15 Service Pack 3 **Supported** • Rocky Linux 9.2 (x86, x64) • Rocky Linux 8.9 (x86, x64)
ESM Console	**Certified** • Red Hat Enterprise Linux 9.2 (x86, x64) • Red Hat Enterprise Linux 8.8 (x86, x64) • Red Hat Enterprise Linux 7.9 (x86, x64) • CentOS 7.9 (x86, x64) • SUSE Linux Enterprise Desktop 15 Service Pack 5 • macOS Monterrey, Ventura, Sonoma • Windows Server 2022 • Windows 10 Enterprise (including patches) **Supported** • Rocky Linux 9.2 (x86, x64) • Rocky Linux 8.9 (x86, x64)

Category	Requirement
Active-Passive High Availability (APHA)	**Certified** • Red Hat Enterprise Linux 9.2 (x86, x64) • Red Hat Enterprise Linux 8.8 (x86, x64) • Red Hat Enterprise Linux 7.9 (x86, x64) • CentOS 7.9 (x86, x64) • SUSE Linux Enterprise Server 15 Service Pack 3 **Supported** • Rocky Linux 9.2 (x86, x64) • Rocky Linux 8.8 (x86, x64)
Connectors	**Certified** • Red Hat Enterprise Linux 9.2 (x86, x64) • Red Hat Enterprise Linux 8.8 (x86, x64) • Red Hat Enterprise Linux 7.9 (x86, x64) • CentOS 7.9 (x86, x64) • SUSE Linux Enterprise Server 15 Service Pack 4 • Windows Server 2022 **Supported** • Rocky Linux 9.2 (x86, x64) Rocky Linux 8.9 (x86, x64)
ArcMC (non-containerized)	**Certified** • Red Hat Enterprise Linux9.2 (x86, x64) • Red Hat Enterprise Linux 8.8 (x86, x64) • Red Hat Enterprise Linux 7.9 (x86, x64) • CentOS 7.9 (x86, x64) **Supported** - Rocky Linux 8.9 (x86, x64)

Software Components

Category	Requirement
File systems	One of the following: • EXT4 (recommended) • EXT3 • Logical Volume Manager (LVM) • XFS
Data Collection	**Certified** - SmartConnector 8.4 **Supported** - SmartConnector 8.2 or later
Browser	• Google Chrome • Microsoft Edge (Chromium-based) • Mozilla Firefox Browsers should not use a proxy to access the OPTIC Management Toolkit (OMT) applications in the containerized ArcSight Platform because this might result in inaccessible web pages.

Support for Patched and Upgraded Operating Systems

We recommend the fully tested operating systems platforms defined in "Operating Systems" on page 4 above. However, the ArcSight Product Management team approves the use of vendor-supported and newly patched versions of operating systems and minor releases that are not explicitly defined above. For example, we will support minor releases between RHEL 8.6 and RHEL 8.8. Although we might not have tested ArcSight components on a new minor or patched release, we will provide support on a "best effort" basis for ArcSight products and components that you run on these upgraded operating systems.

If we cannot fix or provide a workaround in a timely manner for an issue between the newer OS minor release and an ArcSight component, we might ask you to revert to one of the operating systems listed above until the problem can be fixed or the newer OS minor release level has passed our product testing.

If you choose to run ArcSight components on other platforms or with uncertified configurations, we will provide support until the point that we determine that the root cause is the uncertified platform or configuration. Issues that can be reproduced on the certified platforms will be prioritized and fixed according to standard defect-handling policies.

We do not implicitly support major changes for an operating system, such as a new release for RHEL. As a best practice, the ArcSight product team must test ArcSight functionality on new major operating systems before we list the operating system as supported or certified.

File System Options

This section describes the available file system options.

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Network File System Options

The following table lists the minimum network file system (NFS) options.

Category	Minimum Requirement
NFS Types	- Amazon EFS - HPE 3PAR File Persona - Linux-based NFS - NetApp
NFS Server Versions	• NFSv4.1 You might enable additional versions on the NFS server, however ArcSight Platform only uses NFSv4.1.

Network File System (NFS) Minimum Directory Sizes

The following table lists the minimum required size for each of the NFS installation directories.

Directory	Minimum Size	Description
{NFS_ROOT_DIRECTORY}/itom-vol	130 GB	This is the OMT NFS root folder, which contains the OMT database and files. The disk usage will grow gradually.
{NFS_ROOT_DIRECTORY}/db-single-vol	Start with 10 GB	This volume is only available when you did not choose PostgreSQL High Availability (HA) for OMT database setting. It is for OMT database. During the install you will not choose the Postgres database HA option.

{NFS_ROOT_DIRECTORY}/db-backup-vol	Start with 10 GB	This volume is used for backup and restore of the OMT Postgres database. Its sizing is dependent on the implementation's processing requirements and data volumes.
{NFS_ROOT_DIRECTORY}/itom-logging-vol	Start with 40 GB	This volume stores the log output files of OMT components. The required size depends on how long the log will be kept.
{NFS_ROOT_DIRECTORY}/arcsight-volume	10 GB	This volume stores the component installation packages.

Install File System Options

The following table lists the supported file system options.

Category	Requirement
ext4	—
xfs	ftype=1

Data Types Associated with Connectors Supported by Intelligence

This section describes the data types associated with the SmartConnectors and FlexConnector types that Intelligence supports.

Data Type	Supported Smart Connectors
Access	SmartConnector for Microsoft Windows Event Log – Native Application and System Event Support SmartConnector for Microsoft Windows Event Log – Unified Application and System Event Support
Active Directory	SmartConnector for Microsoft Windows Event Log – Native Application and System Event Support
VPN	SmartConnector for Microsoft Network Policy Server File SmartConnector for Pulse Secure Pulse Connect Secure Syslog SmartConnector for Citrix NetScaler Syslog SmartConnector for Nortel Contivity Switch Syslog
Web Proxy	SmartConnector for Microsoft Forefront Threat Management Gateway File SmartConnector for Squid Web Proxy Server File SmartConnector for Blue Coat Proxy SG Multiple Server File
Repository	FlexConnector Type - ArcSight FlexConnector Regex File

Additional Considerations

Consider the following:

- A fuller set of SmartConnectors is supported for those sources that provide relevant data to the Intelligence analytics models. OpenText might need to examine sample logs to optimize analysis of data from this broader set of sources.

- For supported data types, Intelligence provides support for new devices that provide relevant data to the Intelligence analytics models. For more information, see **Adding Support for New Devices** in the guide that corresponds to your deployment:

  - [Administrator's Guide for the ArcSight Platform 24.2 - AWS Deployment](#)
  - [Administrator's Guide for the ArcSight Platform 24.2 - Azure Deployment](#)

- Administrator's Guide for the ArcSight Platform 24.2 - Google Cloud Deployment
- Administrator's Guide for the ArcSight Platform 24.2 - Off-Cloud Deployment

- Intelligence supports the SmartConnectors listed. However, additional capabilities you might deploy, such as Recon, might support a wider set of SmartConnectors/FlexConnector types.

- OpenText advises against configuring event aggregation for data to be processed by ArcSight Intelligence. If you wish to use ArcSight Intelligence with aggregated events, contact OpenText Customer Support.

Firewall Ports

When you install ArcSight Platform and deploy the associated capabilities, you will need to open firewall ports for many of the elements that make up the Platform. For more information about the ports for each component, see **Understanding Firewall Ports for the ArcSight Platform** in the guide that corresponds to your deployment:

- Administrator's Guide for the ArcSight Platform 24.2 - AWS Deployment
- Administrator's Guide for the ArcSight Platform 24.2 - Azure Deployment
- Administrator's Guide for the ArcSight Platform 24.2 - Google Cloud Deployment
- Administrator's Guide for the ArcSight Platform 24.2 - Off-Cloud Deployment

Hybrid Cloud Support

The ArcSight Platform can be deployed to a variety of locations, including Off-cloud and cloud. The **OMT infrastructure**, the **capabilities** deployed on it, and the **ArcSight Database** have been tested when deployed together to the same location. For these components (which are unshaded in Figure 1), the following table specifies the combination of location, Kubernetes service and ArcSight Database Communal Storage service that has been tested, whereas other combinations have not been tested.

For the Database, you can choose one of several S3-compatible object store technologies. Note that not all S3-compatible object store technologies provide the same performance or capabilities. Research is important to determine the ideal solution for your needs. We've found that MinIO works well in the testing that we performed in our labs, but other solutions might work better for your environment.

To help you get an idea of how to configure MinIO for use with ArcSight Database, see **Configuring the ArcSight Database for MinIO Storage (Examples Only)** in the guide corresponding to your deployment.

Other related components, such as an **SMTP** server, can be deployed in a hybrid cloud manner, with some deployed to different locations. To understand the tested scenarios for these components, see the documentation related to that component.

For more information about these components, see the guide corresponding to your deployment:

Component	Off-cloud deployment	AWS deployment	Azure deployment	Google Cloud deployment
OMT infrastructure	Understanding the OMT Infrastructure	Understanding the OMT Infrastructure	Understanding the OMT Infrastructure	Understanding the OMT Infrastructure
Deployed Capabilities	Understanding the Capabilities that You Can Deploy	Understanding the Capabilities that You Can Deploy	Understanding the Capabilities that You Can Deploy	Understanding the Capabilities that You Can Deploy
ArcSight Database	ArcSight Database	ArcSight Database	ArcSight Database	ArcSight Database
Kubernetes Service	Kubernetes	Kubernetes	Kubernetes	Kubernetes
ArcSight Database Communal Storage	ArcSight Database	ArcSight Database	ArcSight Database	ArcSight Database
SMTP	SMTP	SMTP	SMTP	SMTP

Figure 1. *Unshaded components indicate those affected by the setting in the table*
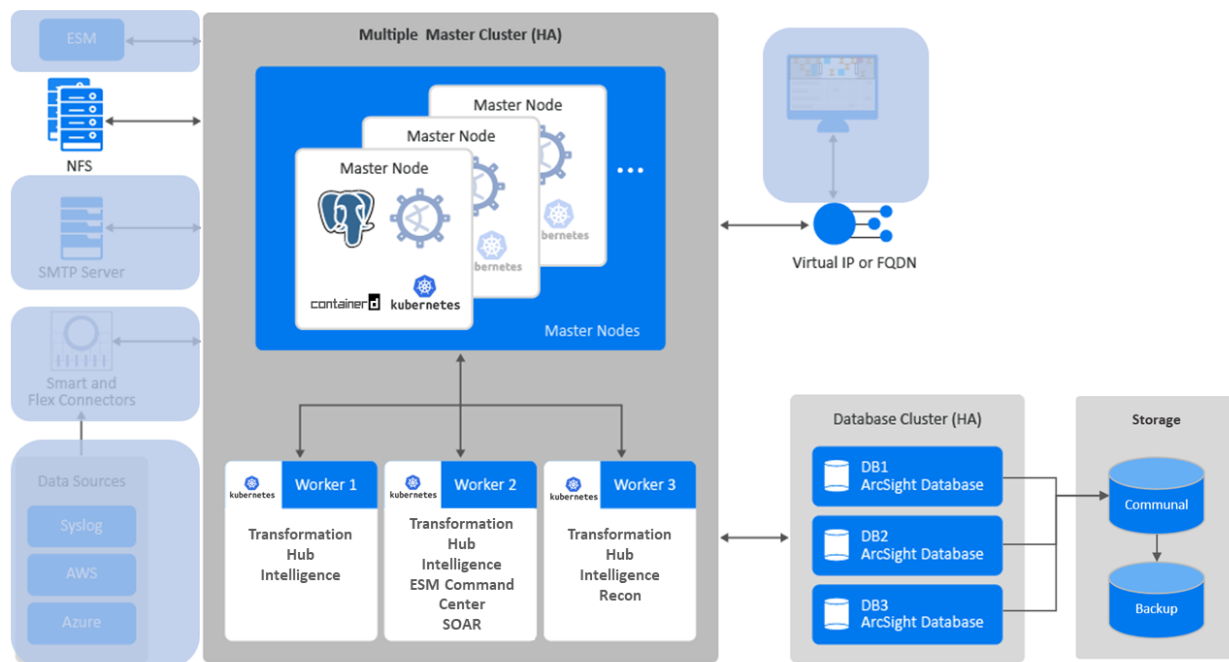
⚠ Customers running on platforms not specified in this document or with untested configurations will be supported until the point OpenText determines that the root cause is the untested platform or configuration. According to the standard defect-handling policies, OpenText will prioritize and fix issues we can reproduce on the tested platforms.

Deployment Location	Kubernetes	Communal Storage
Amazon Web Services (AWS)	Elastic Kubernetes Service (EKS) • v1.26 • v1.27 • v1.28 *	AWS S3
Azure	Azure Kubernetes Service (AKS) • v1.26 • v1.27* • v1.28	Azure Blob
Google Cloud	Google Kubernetes Engine (GKE) • v1.26 • v1.27 • v1.28*	Google Buckets
Off-cloud	OMT embedded	"bring-your-own" Off-cloud S3-compatible storage

*Verified in our test environments. However, we will support the other versions listed here.

Examples of Deployment Scenarios

You can deploy the ArcSight Platform capabilities in a variety of ways. The most basic deployment option is an all-in-one system that contains a limited number of capabilities on a single node. The single-node deployment is suitable for small workloads or to use as a proof-of-concept environment. For large workloads, you will need a multi-node environment, possibly with multiple masters. There are many scenarios and considerations involved in creating your environment. Please see **Prerequisites and Considerations for Adding Capabilities** in the guide corresponding to your deployment:

- Administrator's Guide for the ArcSight Platform 24.2 - AWS Deployment
- Administrator's Guide for the ArcSight Platform 24.2 - Azure Deployment
- Administrator's Guide for the ArcSight Platform 24.2 - Google Cloud Deployment
- Administrator's Guide for the ArcSight Platform 24.2 - Off-Cloud Deployment

This section provides some examples on how you could deploy one or more capabilities. Use these examples as a general guidance for planning your environment.

Multiple Master and Worker Nodes for High Availability

In this scenario, which **deploys Intelligence with high availability**, you have three master nodes connected to three worker nodes and a database cluster. Each node runs on a separate, dedicated, connected host. All nodes have the same operating system. Each Worker Node processes events, with failover to another Worker Node if a Worker fails. All of these environments require an external server to support NFS. The Kubernetes cluster for Intelligence includes Core and Transformation Hub.

- Diagram of this Scenario
- Characteristics of this Scenario
- Guidance for Node Configuration

> ✓ **Tip:** If this scenario resembles your intended deployment, you might want to use the `example-install- config- intelligence- high_ availability.yaml` config file with the ArcSight Platform Installer. For more information about the yaml files, see **Using the Configuration Files** in the guide corresponding to your deployment:
>
> - Administrator's Guide for the ArcSight Platform 24.2 - AWS Deployment
> - Administrator's Guide for the ArcSight Platform 24.2 - Azure Deployment
> - Administrator's Guide for the ArcSight Platform 24.2 - Google Cloud Deployment
> - Administrator's Guide for the ArcSight Platform 24.2 - Off-Cloud Deployment

Diagram of this Scenario

Figure 2. *Example deployment of Intelligence in a high-availability cluster*
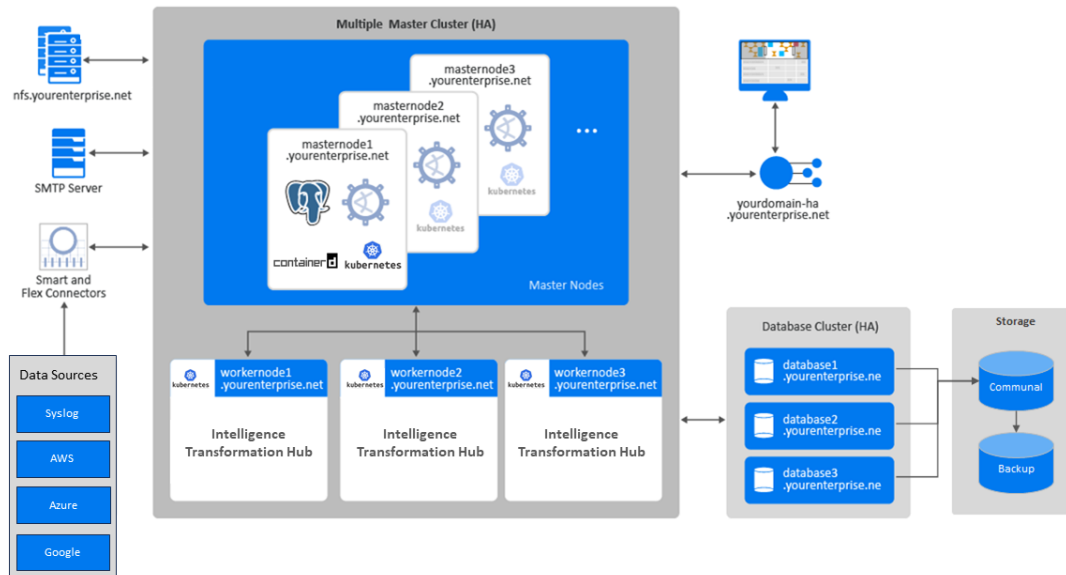
Characteristics of this Scenario

This scenario has the following characteristics:

- The Kubernetes cluster has three master nodes and three worker nodes, so that it can tolerate a failure of a single master and still maintain master node quorum.

- A FQDN hostname for a virtual IP is used so that clients accessing master nodes have a single reliable hostname to connect to that will shift to whatever is the current primary master node. For example, `yourdomain-ha.yourenterprise.net`.

- Transformation Hub's Kafka and ZooKeeper are deployed to all worker nodes with data replication enabled (1 original, 1 copy) so that they can tolerate a failure of a single node and still remain operational.

- Intelligence services, as well as Transformation Hub's platform and processing services, are allocated across all worker nodes so that, if one of the nodes fails, Kubernetes can move all of the components to the other node and still remain operational.

- Core is allocated to a single worker node.

- For the NFS configuration, use an NFS server that has high availability capabilities so that it is not a single point of failure.
- The database cluster has three nodes with data replication enabled (1 original and 1 copy) so that it can tolerate a failure of a single node and remain operational.

Guidance for Node Configuration

The worker nodes process events, with failover to another worker node in the event of a worker failure. There are no single points of failure. You need a minimum of nine physical or VM environments: three dedicated master nodes, three or more dedicated worker nodes, and a database cluster. You also need a customer-provisioned, highly available NFS server (external NFS).

The following table provides guidance for deploying the capabilities across multiple nodes to support a large workload.

Node Name	Description	RAM	CPU Cores	Disk Space	Ports
Master Nodes 1-3 `masternodeNN.yourenterprise.net`	OMT Management Portal	256 GB	32	5 TB	**OMT Vault** AWS Azure Google Cloud Off-cloud **OMT Management Portal** AWS Azure Google Cloud Off-cloud **Kubernetes** AWS Azure Google Cloud Off-cloud **NFS** AWS Azure Google Cloud Off-cloud
Database Nodes 1-3 `databaseNN.yourenterprise.net`	Database	192 GB	24	28 TB	**Database** AWS Azure Google Cloud Off-cloud

Node Name	Description	RAM	CPU Cores	Disk Space	Ports				
Worker 1 `workernode1.yourenterprise.net`	Intelligence Transformation Hub	256 GB	32	5 TB	**Kubernetes**	AWS	Azure	Google Cloud	Off-cloud
					Transformation Hub	AWS	Azure	Google Cloud	Off-cloud
Worker 2 `workernode1.yourenterprise.net`	Intelligence Transformation Hub	256 GB	32	5 TB	**Kubernetes**	AWS	Azure	Google Cloud	Off-cloud
					Transformation Hub	AWS	Azure	Google Cloud	Off-cloud
Worker 3 `workernode1.yourenterprise.net`	Core Intelligence Transformation Hub	256 GB	32	5 TB	**ArcMC**	AWS	Azure	Google Cloud	Off-cloud
					Intelligence	AWS	Azure	Google Cloud	Off-cloud
					Kubernetes	AWS	Azure	Google Cloud	Off-cloud
					Transformation Hub	AWS	Azure	Google Cloud	Off-cloud

Single Master, Multiple Workers, and a High-availability Database

In this scenario, which **deploys Intelligence with high availability on the ArcSight Database**, you have a single master node connected to three worker nodes and a cluster for the ArcSight Database. This scenario supports an environment with modest EPS and minimal number of nodes. However, it allows for futher scaling with multiple worker nodes. Each worker node runs on a separate, dedicated, connected host. All nodes have the same operating system. The Kubernetes cluster for Intelligence includes Core and Transformation Hub.

- Diagram of this Scenario
- Characteristics of this Scenario
- Guidance for Node Configuration

> ✅ **Tip:** If this scenario resembles your intended deployment, you might want to use the `example-install- config- intelligence- scale_db.yaml` config file with the ArcSight Platform Installer. For more information about the yaml files, see **Using the Configuration Files** in the guide corresponding to your deployment:
>
> - Administrator's Guide for the ArcSight Platform 24.2 - AWS Deployment
> - Administrator's Guide for the ArcSight Platform 24.2 - Azure Deployment
> - Administrator's Guide for the ArcSight Platform 24.2 - Google Cloud Deployment
> - Administrator's Guide for the ArcSight Platform 24.2 - Off-Cloud Deployment

Diagram of this Scenario

Figure3. *Example deployment of Intelligence and Recon*
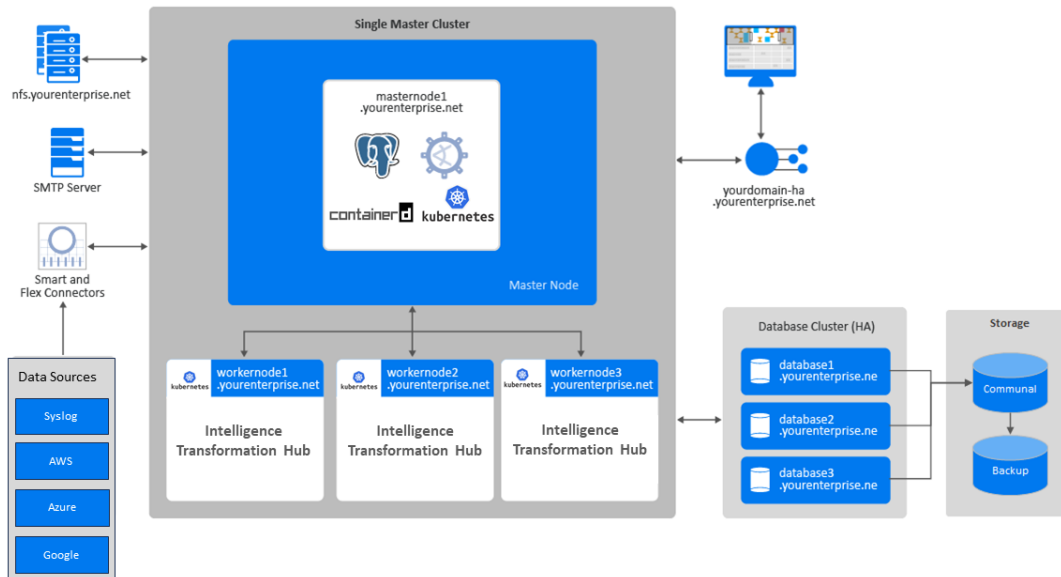
Characteristics of this Scenario

This scenario has the following characteristics:

- The Kubernetes cluster overall is not highly available since it is deployed with only one master node.

- A FQDN hostname for a virtual IP is used so that clients accessing master nodes have a single reliable hostname to connect to that will shift to whatever is the current primary master node. For example, `yourdomain-ha.yourenterprise.net`.

- Transformation Hub's Kafka and ZooKeeper are deployed to all worker nodes with data replication enabled (1 original, 1 copy) so that they can tolerate a failure of a single node and still remain operational.

- Intelligence services, Core, and Transformation Hub's platform and processing services are allocated across all worker nodes so that, if one of the nodes fails, Kubernetes can move all of the components to the other node and still remain operational.

- The database cluster has three nodes with data replication enabled (1 original and 1 copy) so that it can tolerate a failure of a single node and remain operational.

- For the NFS configuration, use an NFS server that has high availability capabilities so that it is not a single point of failure.

Guidance for Node Configuration

You need a minimum of nine physical or VM environments: three dedicated master nodes, three or more dedicated worker nodes, and a database cluster. You also need a customer-provisioned, highly-available NFS server (External NFS) and an SMTP server.

The following table provides guidance for deploying the Intelligence across multiple nodes to support a medium workload.

Node Name	Description	RAM	CPU Cores	Disk Space	Ports
Master Node `masternode1.yourenterprise.net`	OMT Management Portal (Optional) Core	256 GB	32	5 TB	**OMT Management Portal** AWS Azure Google Cloud Off-cloud **Kubernetes** AWS Azure Google Cloud Off-cloud **NFS** AWS Azure Google Cloud Off-cloud
Database Nodes 1-3 `databaseNN.yourenterprise.net`	Database	192 GB	24	28 TB	**Database** AWS Azure Google Cloud Off-cloud

Node Name	Description	RAM	CPU Cores	Disk Space	Ports
Worker 1 `workernode1.yourenterprise.net`	Intelligence Core Transformation Hub	256 GB	32	5 TB	**ArcMC** · AWS · Azure · Google Cloud · Off-cloud **Intelligence** · AWS · Azure · Google Cloud · Off-cloud **Kubernetes** · AWS · Azure · Google Cloud · Off-cloud **Transformation Hub** · AWS · Azure · Google Cloud · Off-cloud
Worker 2 `workernode2.yourenterprise.net`	Intelligence Core Transformation Hub	256 GB	32	5 TB	**ArcMC** · AWS · Azure · Google Cloud · Off-cloud **Intelligence** · AWS · Azure · Google Cloud · Off-cloud **Kubernetes** · AWS · Azure · Google Cloud · Off-cloud **Transformation Hub** · AWS · Azure · Google Cloud · Off-cloud
Worker 3 `workernode3.yourenterprise.net`	Core Intelligence Transformation Hub	256 GB	32	5 TB	**ArcMC** · AWS · Azure · Google Cloud · Off-cloud **Intelligence** · AWS · Azure · Google Cloud · Off-cloud **Kubernetes** · AWS · Azure · Google Cloud · Off-cloud **Transformation Hub** · AWS · Azure · Google Cloud · Off-cloud

Everything on a Single Node—Case Management

In this scenario, which **deploys ESM Command Center on a single node**, you have the master and worker node collocated. The Kubernetes cluster for ESM Command Center includes Core and Transformation Hub.

- "Diagram of this Scenario" below
- "Characteristics of this Scenario" on the next page
- "Guidance for Node Configuration" on the next page

> ✅ **Tip:** If this scenario resembles your intended deployment, you might want to use the `example-install-config-esm_cmd_center-single-node.yaml` config file with the ArcSight Platform Installer. For more information about the yaml files, see **Using the Configuration Files** in the guide corresponding to your deployment:
>
>   - Administrator's Guide for the ArcSight Platform 24.2 - AWS Deployment
>   - Administrator's Guide for the ArcSight Platform 24.2 - Azure Deployment
>   - Administrator's Guide for the ArcSight Platform 24.2 - Google Cloud Deployment
>   - Administrator's Guide for the ArcSight Platform 24.2 - Off-Cloud Deployment
>
> The configuration in the example file describes a single-node deployment, but you can add more worker nodes to the file.

Diagram of this Scenario

Figure 4. *Example deployment of ESM Command Center on a single node*
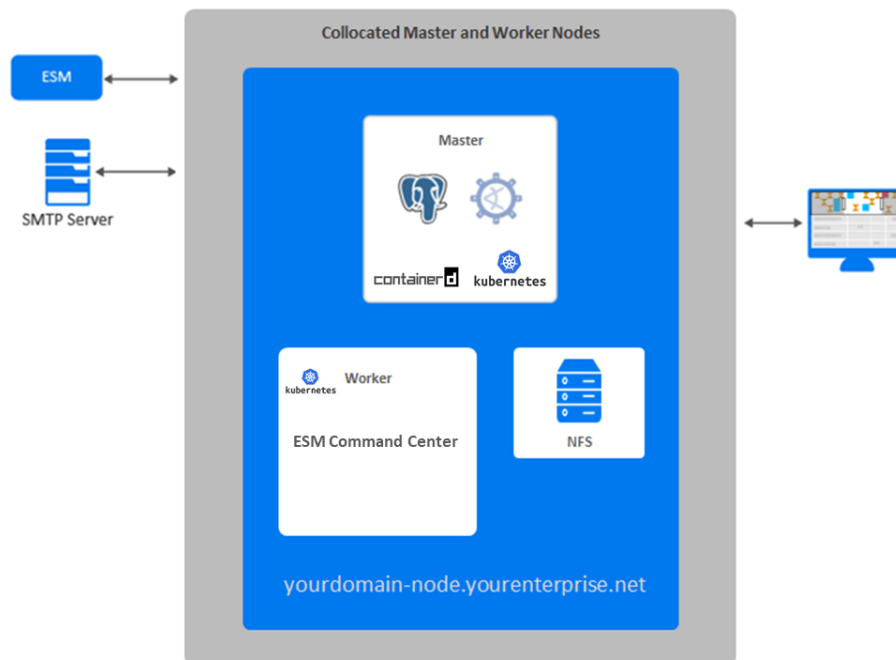
Characteristics of this Scenario

This scenario has the following characteristics:

- The Kubernetes cluster and NFS server are hosted on a single node, which creates a single point of failure. As a result, if you intend to add worker nodes, we do not recommend this configuration for high availability (HA) environments.
- FIPS 140 mode is enabled.

Guidance for Node Configuration

You need a minimum of one physical or VM environment to support master, worker, and NFS server on a single node. If you intend to install ESM Manager on the same machine, install ESM Manager first. ESM Manager uses port 8443, so master-api-ssl-port is set to a different port to avoid a conflict.

The following table provides guidance for deploying ESM Command Center and associated capabilities on a single node to support a small workload.

Node Name	Description	RAM	CPU Cores	Disk Space	Ports				
Master Node yourdomain-node.yourenterprise.net	OMT Management Portal	32 GB	8	300 GB	**OMT Vault**	AWS	Azure	Google Cloud	Off-cloud
					OMT Management Portal	AWS	Azure	Google Cloud	Off-cloud
					Kubernetes	AWS	Azure	Google Cloud	Off-cloud
					NFS	AWS	Azure	Google Cloud	Off-cloud
Worker 1	ESM Command Center Core	256 GB	32	5 TB	**ArcMC**	AWS	Azure	Google Cloud	Off-cloud
					Kubernetes	AWS	Azure	Google Cloud	Off-cloud
					SOAR	AWS	Azure	Google Cloud	Off-cloud

System Performance Benchmarks for Sizing and Tuning

To help you maintain satisfactory performance of the system, we tested the system hardware under a variety of workloads in our lab environments. Based on our test results, this section identifies benchmarks that you can use to determine the system hardware required for your production environment and to tune your system's performance. These results are based on dedicated resource allocations. In virtual environments, where there is a risk of over-subscription of the physical hardware, we recommend that you ensure the system meets this sizing to avoid installation and functionality issues.

We organized the benchmarks for small, medium, and large workloads based on events per second as well as common user and system-level activities. Each day your environment might have thousands of events per second. However, the total workload depends not only on the event data received through SmartConnectors or ArcSight Enterprise Security Manager (ESM), but also other workloads that occur at the same time. For example, someone might be searching for events, new information can be coming in about the entities associated with the events, system backup operations are performed, and a various other operations might occur. The system must be able to process all of these types of transactions simultaneously and maintain satisfactory performance.

The conditions in your environment are likely to be somewhat different than in our test lab and, as such, it is possible you might need to further adjust the system sizing or tuning values for satisfactory performance in your environment.

Options for the Database Cluster

The ArcSight Database cluster in your deployment can be collocated with the OMT cluster or in a separate, non-collocated cluster. When we tested each of these cluster options, we kept the communal storage as a separate entity. As a result, we provide dedicated sizing for the communal storage and the database node(s). We tested the following scenarios:

Collocated database cluster

> Where the database, master node, and worker node are deployed on a single node as part of the OMT cluster. We used a collocated database cluster to determine the system sizing and tuning for Small and medium workloads in an Off-cloud deployment.

Non-collocated database cluster

Where the database is deployed on dedicated nodes that make up the database cluster, and this cluster is not a part of the OMT cluster. We used a non-collocated database cluster to determine the system sizing and tuning for the following scenarios:

- Large workload in an Off-cloud, multi-node deployment
- Small, medium, and large workloads in a cloud, multi-node deployment

SOAR Focused Workload

This section describes the system sizing and tuning for the ArcSight Platform and the deployed capabilities of Coreand (optionally) Command Center for ESM. These capabilities are integrated with a full ESM deployment that is deployed separately.

In this scenario, since only the Core and Command Center for ESM capabilities are deployed on the ArcSight Platform and these capabilities are handling a small workload (as they are not in the events processing pipeline), it is possible to deploy this on a single machine.

System Sizing

This section describes the system sizing of the tested system for a single machine.

Off-cloud Deployment

The *OMT Master/Worker Node* system resources are where the core platform and capabilities are deployed in an all-in-one co-located configuration on the tested system.

Category	1 x OMT Master/Worker Node
Processor	Intel(R) Xeon(R) Gold 6248 CPU @ 2.50GHz
vCPU(s) (# threads)	24
RAM (per node)	128 GB
Disks (per node)	1
Total disk space (per node)	750 GB
SOAR DB storage on NFS arcsight-volume	1 TB (holds up to 1000 case related events per day for two years)
K-safety level	0

For Multi-Tenancy

The additional resource required per tenant for multi-tenancy mode.

Category	Requirement per additional tenant
Processor	Intel(R) Xeon(R) Gold 6248 CPU @ 2.50GHz
vCPU(s) (# threads)	16
RAM (per tenant)	32 GB
Total disk space (per tenant)	500 GB

Small Workload

As we complete testing for additional scenarios, we will add more information to this page.

This section describes the system sizing and tuning results from tests of the ArcSight Platform, Core, and deployed capabilities: Transformation Hub, Command Center for ESM, Intelligence, Recon, and the ArcSight Database.

The scenarios below have been confirmed in our testing lab to maintain satisfactory performance of the system under a small workload.

- Workloads
- System Sizing
- System Tuning

Workloads

This section describes the workload that was placed on the tested system.

- Event Workload
- Other Workload

Event Workload

Application	Events per second
Microsoft Windows	700
InfoBlox NIOS	700
Intelligence Data (VPN, AD, Proxy)	100
Total	1,500

Other workload

Category	Level
Storage Groups	10
Searches	3 per hour (concurrent)
Reports	1 scheduled every hour

System Sizing

This section describes the sizing of the tested system.

- "Off-cloud Deployment" below
- AWS Deployment
- Azure Deployment
- "Google Cloud Deployment" on the next page

Off-cloud Deployment

The *OMT Master/Worker Node/Database Node* system resources are where the Core platform, Transformation Hub, Command Center for ESM, Recon, and Database compute components were deployed in an all-in-one collocated configuration on the tested system. However, the Database *Communal Storage* components were deployed on a separate node because they are not embedded within the ArcSight Platform. When using this information as guidance for your own system sizing, the OMT Master/Worker Node/Database Node system resources are always needed, but the Database Communal Storage system resources are only needed when deploying Recon or Intelligence.

Category	1 x OMT Master/Worker Node/Database Node	1 x Communal Storage
Processor	Intel(R) Xeon(R) Gold 6248 CPU @ 2.50GHz	Intel(R) Xeon(R) Gold 6248 CPU @ 2.50GHz
vCPU(s) (# threads)	24	6
RAM (per node)	128 GB	32 GB
Disks (per node)	ESX data store	ESX data store
Storage per day (1x)	7 GB (depot) + 15 GB (ES)	27 GB (MinIO)
Total disk space (5 Billion events)	1 TB (holds up to 45 days of events)	1 TB (holds up to 40 days of events)
K-safety level	0	N/A

AWS Deployment

The *OMT Worker (Platform)* system resources are where the Core platform, Transformation Hub, Command Center for ESM, and Recon components were deployed on the tested system. However, Intelligence components were deployed on the *OMT Worker (Intelligence)* system resources because they utilize a significant amount of resources when running analytics jobs. When using this information as guidance for your own system sizing, the OMT Worker (Platform) system resources are always needed, the *Database* system resources are only needed when deploying Recon or Intelligence, and the OMT Worker (Intelligence) system resources are only needed when deploying ArcSight Intelligence.

Category	OMT Worker (Platform)	Database	OMT Worker (Intelligence)
Instance Type	m5.2xlarge	m5d.4xlarge	m5.2xlarge
Instance Count	3	3	3
Disks (per node)	500 GB - EBS storage (gp2)	2 x 300 NVMe SSD	500 GB - EBS storage (gp2)

Azure Deployment

The *OMT Worker (Platform)* system resources are where the Core platform, Transformation Hub, Command Center for ESM, and Recon components were deployed on the tested system. However, Intelligence components were deployed on the *OMT Worker (Intelligence)* system resources because they utilize a significant amount of resources when running analytics jobs. When using this information as guidance for your own system sizing, the "OMT Worker (Platform)" system resources are always needed, the *Database* system resources are only needed when deploying Recon or Intelligence, and the OMT Worker (Intelligence) system resources are only needed when deploying ArcSight Intelligence.

Category	OMT Worker (Platform)	Database	OMT Worker (Intelligence)
Instance Type	D2s_V3	D4s_V3	D2s_V3
Instance Count	3	3	3
Disks (per node)	1 x 500 GB - Premium SSD	2 x 300 GB - Premium SSD	1 x 500 GB - Premium SSD

Google Cloud Deployment

The *OMT Worker (Platform)* system resources are where the Core platform, Transformation Hub, Command Center for ESM, and Recon components were deployed on the tested system.

However, Intelligence components were deployed on the *OMT Worker (Intelligence)* system resources because they utilize a significant amount of resources when running analytics jobs. When using this information as guidance for your own system sizing, the "OMT Worker (Platform)" system resources are always needed, the *Database* system resources are only needed when deploying Recon or Intelligence, and the OMT Worker (Intelligence) system resources are only needed when deploying ArcSight Intelligence.

Category	OMT Worker (Platform)	Database	OMT Worker (Intelligence)
Instance Type	n2-standard-8	n2-standard-16	n2-standard-8
Instance Count	3	3	3
Disks (per node)	500 GB - Storage Disk	2 x 300 Storage SSD persistent disks	500 GB - Storage Disk

System Tuning

This section describes the system tuning of the tested system.

- Database Tuning
- Transformation Hub Tuning
- Intelligence Tuning
- Core Tuning
- SmartConnector Tuning

Database Tuning

Category	Property	Off-cloud	AWS	Azure
Core Database	shard_count	3	3	3
Core Database	depot_size	40%	60%	60%
Tuple Mover	tm_concurrency	5	6	5
Tuple Mover	tm_memory	10G	10G	10G
Tuple Mover	plannedconcurrency	5	6	5
Tuple Mover	tm_memory_usage	10000	10000	10000
Tuple Mover	maxconcurrency	10	7	10
Ingest Resource pools	ingest_pool_memory_size	30%	30%	30%

Ingest Resource pools	ingest_pool_planned_concurrency	6	6	6
Backup	Backup Interval (hours)	1	1	1
Communal Storage	Server-side Encryption	Disabled	Disabled	Yes (MMK)

Transformation Hub Tuning

Property	Off-cloud	AWS	Azure
# of Kafka broker nodes in the Kafka cluster	1	3	3
# of ZooKeeper nodes in the ZooKeeper cluster	1	3	3
# of Partitions assigned to each Kafka Topic*	12	24	24
# of replicas assigned to each Kafka Topic	1	2	2
# of message replicas for the __consumer_offsets Topic	1	3	3
Schema Registry nodes in the cluster	1	3	3
# of CEF-to-Avro Stream Processor instances to start**	0	0	0
# of Enrichment Stream Processor Group instances to start	2	2	2

*Kafka topics - th-arcsight-avro; mf-event-avro-enriched; and th-cef, if connectors are configured to send to Transformation Hub in CEF format

**If connectors are configured to send Avro format to Transformation Hub, you can set the *# of CEF-to-Avro Stream Processor instances to start* quantity to 0 because there is no need to convert CEF to Avro.

Intelligence Tuning

Property	Off-cloud	AWS	Azure
Elasticsearch Shard Count	6	6	6
Elasticsearch data processing Instances	1	3	3
Elasticsearch Index Replica Count	0	1	1
Elasticsearch Memory (GB)	10	4	4
Elasticsearch number of cores	6	2	2
Elasticsearch Size Per Batch	5mb	5mb	5mb
Logstash Instances	2	3	3
Logstash pipeline workers per instance	2	1	1
Logstash Pipeline Batch size	500	500	500

LogStash Filter Applied	yes	yes	yes
Spark parallelism	32	32	32
Spark number of executors	3	3	3
Spark executor memory	5g	4g	4g
Spark number of executor cores	1	1	1
Spark driver memory	4g	4g	3g
Spark memory overhead factor	0.2	0.2	0.2
Intelligence Job per day	1	1	1

Core Tuning

Category	All Deployments
Event Integrity Check Task Count	1
Event Integrity Check Chunk Size	1000
Use Event Integrity Check Resource Pool	false

SmartConnector Tuning

Category	All Deployments
SmartConnector version that we tested	8.3.0.14008.0
Instance Count	1
Acknowledgement Mode	leader
usessl (Transformation Hub Destination Param)	false
contenttype (Transformation Hub Destination Param)	Avro
topic (Transformation Hub Destination Param)	th-arcsight-avro
compression.type	gzip
transport.batchqueuesize	20000
transport.cefkafka.batch.size	50000
transport.cefkafka.linger.ms	10
transport.cefkafka.max.request.size	4194304
transport.cefkafka.multiplekafkaproducers	true
transport.cefkafka.threads	3

Medium Workload

> As we complete testing for additional scenarios, we will add more information to this page.

This section describes the system sizing and tuning results from tests of the ArcSight Platform, Core, and deployed capabilities: Transformation Hub, Command Center for ESM, Intelligence, Recon, and the ArcSight Database.

The scenarios below have been confirmed in our testing lab to maintain satisfactory performance of the system under a medium workload.

- Workloads
- System Sizing
- System Tuning

Workloads

This section describes the workload that was placed on the tested system.

- Event Workload
- Other Workload

Event Workload

This table provides event ingestion workload in events per second:

Application	Off-cloud Collocated Database	AWS or Azure Non-collocated Database
Microsoft Windows	2,400	9,000
InfoBlox NIOS	2,400	9,000
Intelligence Data (VPN, AD, Proxy)	250	2,000
Total	5,050	20,000

Other Workload

Category	Level
Storage Groups	10
Searches	3 per hour (concurrent)
Reports	1 scheduled every hour

System Sizing

This section describes the system sizing of the tested system.

- "Off-cloud Deployment" below
- AWS Deployment
- Azure Deployment
- "Google Cloud Deployment" on the next page

Off-cloud Deployment

The *OMT Master/Worker Node/Database Node* system resources are where the Core platform, Transformation Hub, Command Center for ESM, Recon, and Database compute components were deployed in an all-in-one collocated configuration on the tested system. However, the Database *Communal Storage* components were deployed on a separate node because they are not embedded within the ArcSight Platform. When using this information as guidance for your own system sizing, the OMT Master/Worker Node/Database Node system resources are always needed, but the Database Communal Storage system resources are only needed when deploying Recon or Intelligence.

Category	1 x OMT Master/Worker Node/Database Node	1 x Communal Storage
Processor	Intel(R) Xeon(R) Gold 6248 CPU @ 2.50GHz	Intel(R) Xeon(R) Gold 6248 CPU @ 2.50GHz
vCPU(s) (# threads)	48	8
RAM (per node)	192 GB	48 GB
Disks (per node)	ESX data store	ESX data store
Storage per day (1x)	10 GB (depot) + 20 GB (ES)	100 GB (MinIO)
Total disk space (5 Billion events)	1 TB (holds up to 30 days of events)	1 TB (holds up to 15 days of events)
K-safety level	0	N/A

AWS Deployment

The *OMT Worker (Platform)* system resources are where the Core platform, Transformation Hub, Command Center for ESM, and Recon components were deployed on the tested system. However, Intelligence components were deployed on the *OMT Worker (Intelligence)* system resources because they utilize a significant amount of resources when running analytics jobs. When using this information as guidance for your own system sizing, the OMT Worker

(Platform) system resources are always needed, the *Database* system resources are only needed when deploying Recon or Intelligence, and the OMT Worker (Intelligence) system resources are only needed when deploying ArcSight Intelligence.

Category	OMT Worker (Platform)	Database	OMT Worker (Intelligence)
Instance Type	m5.4xlarge	m5.12xlarge	m5.4xlarge
Instance Count	3	6	3
Disks (per node)	1 X 2048 GB (gp3) EBS Volumes	8 x 250 GB (gp3) EBS Volumes	1 X 2048 GB (gp3) EBS Volumes

Azure Deployment

The *OMT Worker (Platform)* system resources are where the Core platform, Transformation Hub, Command Center for ESM, and Recon components were deployed on the tested system. However, Intelligence components were deployed on the *OMT Worker (Intelligence)* system resources because they utilize a significant amount of resources when running analytics jobs. When using this information as guidance for your own system sizing, the "OMT Worker (Platform)" system resources are always needed, the *Database* system resources are only needed when deploying Recon or Intelligence, and the OMT Worker (Intelligence) system resources are only needed when deploying ArcSight Intelligence.

Category	OMT Worker (Platform)	Database	OMT Worker (Intelligence)
Instance Type	D16s_V3	D32s_V3	D16s_V3
Instance Count	3	6	3
Disks (per node)	2 TB - Premium SSD	2 TB (Depot) - Premium SSD	2 TB - Premium SSD

Google Cloud Deployment

The *OMT Worker (Platform)* system resources are where the Core platform, Transformation Hub, Command Center for ESM, and Recon components were deployed on the tested system. However, Intelligence components were deployed on the *OMT Worker (Intelligence)* system resources because they utilize a significant amount of resources when running analytics jobs. When using this information as guidance for your own system sizing, the "OMT Worker (Platform)" system resources are always needed, the *Database* system resources are only needed when deploying Recon or Intelligence, and the OMT Worker (Intelligence) system resources are only needed when deploying ArcSight Intelligence.

Category	OMT Worker (Platform)	Database	OMT Worker (Intelligence)
Instance Type	n2-standard-16	n2-standard-32	n2-standard-16
Instance Count	3	6	3
Disks (per node)	2 TB - Storage Disk	1.2 TB - Storage SSD persistent disks	2 TB - Storage Disk

System Tuning

This section describes the system tuning of the tested system.

- Database Tuning
- Transformation Hub Tuning
- Intelligence Tuning
- Core Tuning
- SmartConnector Tuning

Database Tuning

Category	Property	Off-cloud	Azure	AWS
Core Database	shard_count	3	18	18
Core Database	depot_size	40%	60%	60%
Tuple Mover	tm_concurrency	5	5	10
Tuple Mover	tm_memory	10G	10G	10G
Tuple Mover	plannedconcurrency	5	5	5
Tuple Mover	tm_memory_usage	10000	10000	20000
Tuple Mover	maxconcurrency	10	10	10
Ingest Resource pools	ingest_pool_memory_size	30%	30%	30%
Ingest Resource pools	ingest_pool_planned_concurrency	6	6	6
Backup	Backup Interval (hours)	1	1	1

Transformation Hub Tuning

Property	Off-cloud	Azure	AWS
# of Kafka broker nodes in the Kafka cluster	1	3	3
# of ZooKeeper nodes in the ZooKeeper cluster	1	3	3
# of Partitions assigned to each Kafka Topic*	12	72	72
# of replicas assigned to each Kafka Topic	1	2	2
# of message replicas for the __consumer_offsets Topic	1	3	3

Schema Registry nodes in the cluster	1	3	3
# of CEF-to-Avro Stream Processor instances to start**	0	0	3
# of Enrichment Stream Processor Group instances to start	2	3	3

*Kafka topics - th-arcsight-avro; mf-event-avro-enriched; and th-cef, if connectors are configured to send to Transformation Hub in CEF format

**If connectors are configured to send Avro format to Transformation Hub, you can set the *# of CEF-to-Avro Stream Processor instances to start* quantity to 0 because there is no need to convert CEF to Avro.

Intelligence Tuning

Property	Off-cloud	Azure	AWS
Elasticsearch Shard Count	6	6	6
Elasticsearch data processing Instances	1	3	3
Elasticsearch Index Replica Count	0	1	1
Elasticsearch Memory (GB)	14	12	12
Elasticsearch number of cores	8	6	5
Elasticsearch Size Per Batch	5mb	5mb	5mb
Logstash Instances	3	12	15
Logstash pipeline workers per instance	2	2	1
Logstash Pipeline Batch size	500	1000	500
LogStash Filter Applied	yes	yes	yes
Spark Parallelism	32	32	64
Spark number of executors	3	8	9
Spark executor memory	6g	8g	7g
Spark number of executor cores	1	1	1
Spark Driver Memory	6g	8g	8g
Spark Memory Overhead Factor	0.2	0.2	0.2
Intelligence Job per day	1	1	1

Core Tuning

Category	All Deployments
Event Integrity Check Task Count	1

Event Integrity Check Chunk Size	1000
Use Event Integrity Check Resource Pool	false

SmartConnector Tuning

Category	All Deployments
SmartConnector version that we tested	8.3.0.14008.0
Instance Count	1
Acknowledgement Mode	none
usessl (Transformation Hub Destination Param)	false
contenttype (Transformation Hub Destination Param)	Avro
topic (Transformation Hub Destination Param)	th-arcsight-avro
compression.type	gzip
transport.batchqueuesize	20000
transport.cefkafka.batch.size	50000
transport.cefkafka.linger.ms	10
transport.cefkafka.max.request.size	4194304
transport.cefkafka.multiplekafkaproducers	true
transport.cefkafka.threads	6
syslog.parser.threadcount	6

Large Workload

As we complete testing for additional scenarios, we will add more information to this page.

This section describes the system sizing and tuning results from tests of the ArcSight Platform, Core, and deployed capabilities: Transformation Hub, Command Center for ESM, Intelligence, Recon, and the ArcSight Database.

The scenarios below have been confirmed in our testing lab to maintain satisfactory performance of the system under a large workload.

- Workloads
- System Sizing
- System Tuning

Workloads

This section describes the workload that was placed on the tested system.

- Event Workload
- Other Workload

Event Workload

Application	Events per second
Microsoft Windows	54,000
InfoBlox NIOS	54,000
Intelligence Data (VPN, AD, Proxy)	12,000
Total	120,000

Other Workload

Category	Level
Storage Groups	10
Searches	3 per hour (concurrent)
Reports	1 scheduled every hour

System Sizing

This section describes the system sizing of the tested system.

- "AWS Deployment" below
- "Google Cloud Deployment" on the next page

AWS Deployment

The *OMT Worker (Platform)* system resources are where the Core platform, Transformation Hub, Command Center for ESM, and Recon components were deployed on the tested system. However, Intelligence components were deployed on the *OMT Worker (Intelligence)* system resources because they utilize a significant amount of resources when running analytics jobs. When using this information as guidance for your own system sizing, the OMT Worker (Platform) system resources are always needed, the *Database* system resources are only

needed when deploying Recon or Intelligence, and the OMT Worker (Intelligence) system resources are only needed when deploying ArcSight Intelligence.

Category	OMT Worker (Platform)	Database	OMT Worker (Intelligence)
Instance Type	m5.8xlarge	m5d.12xlarge	m5.8xlarge
Instance Count	3	18	6
Disks (per node)	3 TB - EBS storage	8 x 250 GB NVMe SSD	3 TB - EBS storage

Google Cloud Deployment

The *OMT Worker (Platform)* system resources are where the Core platform, Transformation Hub, Command Center for ESM, and Recon components were deployed on the tested system. However, Intelligence components were deployed on the *OMT Worker (Intelligence)* system resources because they utilize a significant amount of resources when running analytics jobs. When using this information as guidance for your own system sizing, the OMT Worker (Platform) system resources are always needed, the *Database* system resources are only needed when deploying Recon or Intelligence, and the OMT Worker (Intelligence) system resources are only needed when deploying ArcSight Intelligence.

Category	OMT Worker (Platform)	Database	OMT Worker (Intelligence)
Instance Type	n2-standard-32	n2-standard-48	n2-standard-32
Instance Count	3	18	6
Disks (per node)	3 TB - Storage Disk	2 TB - Storage SSD persistent disks	3 TB - Storage Disk

System Tuning

This section describes the system tuning of the tested system.

- Database Tuning
- Transformation Hub Tuning
- Intelligence Tuning
- "Core Tuning" on page 44
- SmartConnector Tuning

Database Tuning:

Category	Property	AWS
Core Database	shard_count	18

Core Database	depot_size	60%
Tuple Mover	tm_concurrency	5
Tuple Mover	tm_memory	10G
Tuple Mover	plannedconcurrency	5
Tuple Mover	tm_memory_usage	10000
Tuple Mover	maxconcurrency	10
Ingest Resource pools	ingest_pool_memory_size	30%
Ingest Resource pools	ingest_pool_planned_concurrency	6
Backup	Backup Interval (hours)	1
Communal Storage	Server-side Encryption	disabled

Transformation Hub Tuning

Property	AWS
# of Kafka broker nodes in the Kafka cluster	3
# of ZooKeeper nodes in the ZooKeeper cluster	3
# of Partitions assigned to each Kafka Topic*	108
# of replicas assigned to each Kafka Topic	2
# of message replicas for the __consumer_offsets Topic	3
Schema Registry nodes in the cluster	3
# of CEF-to-Avro Stream Processor instances to start**	0
# of Enrichment Stream Processor Group instances to start	6

*Kafka topics - th-arcsight-avro; mf-event-avro-enriched; and th-cef, if connectors are configured to send to Transformation Hub in CEF format

**If connectors are configured to send Avro format to Transformation Hub, you can set the *# of CEF-to-Avro Stream Processor instances to start* quantity to 0 because there is no need to convert CEF to Avro.

Kafka Override Parameters	AWS
arcsight.eventbroker.kafka.KAFKA_NUM_IO_THREADS	256
arcsight.eventbroker.kafka.KAFKA_NUM_NETWORK_THREADS	52
arcsight.eventbroker.kafka.KAFKA_NUM_REPLICA_FETCHERS	145

Intelligence Tuning

Property	AWS
Elasticsearch Shard Count	6
Elasticsearch data processing Instances	6
Elasticsearch Index Replica Count	1
Elasticsearch Memory (GB)	24
Elasticsearch number of cores	12
Elasticsearch Size Per Batch	10mb
Logstash Instances	108
Logstash pipeline workers per instance	2
Logstash Pipeline Batch size	2000
Spark Parallelism	64
Spark number of executors	24
Spark executor memory	12g
Spark number of executor cores	1
Spark Driver Memory	8g
Spark Memory Overhead Factor	0.2
Intelligence Job per day	1

Core Tuning

Category	All Deployments
Event Integrity Check Task Count	6
Event Integrity Check Chunk Size	1000
Use Event Integrity Check Resource Pool	false

SmartConnector Tuning

Category	All Deployments
SmartConnector version that we tested	8.3.0.14008.0
Instance Count	5
Acknowledgement Mode	none

usessl (Transformation Hub Destination Param)	false
contenttype (Transformation Hub Destination Param)	Avro
topic (Transformation Hub Destination Param)	th-arcsight-avro
compression.type	gzip
transport.batchqueuesize	20000
transport.cefkafka.batch.size	50000
transport.cefkafka.linger.ms	10
transport.cefkafka.max.request.size	4194304
transport.cefkafka.multiplekafkaproducers	true
transport.cefkafka.threads	6

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