



DefendX Software Vision™

Installation Requirements

This guide covers some pre-install items to be considered in preparation for a successful install of DefendX Software Vision™. When the installation is complete, the product is functional. Customers should read through this guide in its entirety for important notes to get the most out of the software.

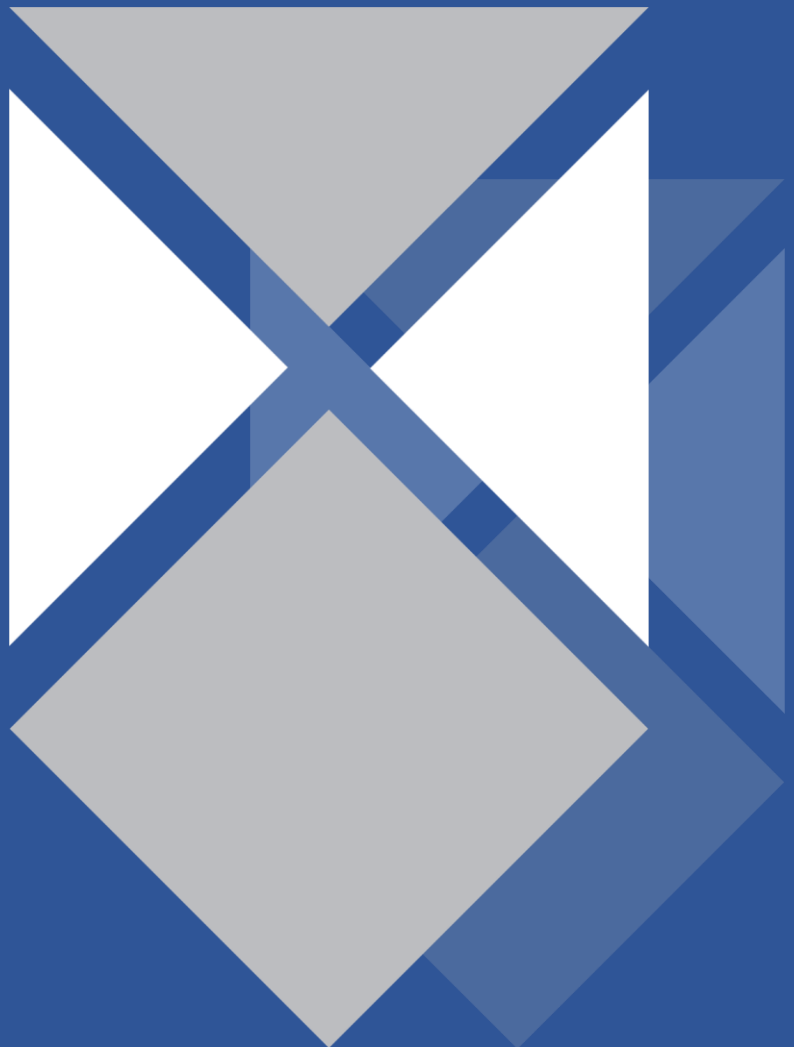


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Executive Summary

Below is a summary of system and other technical requirements in preparation for a successful install of DefendX Software Vision:

Windows Server Management Host

CPU	2.2GHZ or higher
MEMORY	8 GB
DISK SPACE	10GB Available HDD Space (for installation) 1GB per every 1TB scanned (for database)
OPERATING SYSTEM	Windows Server 2008 R2, Windows Server 2012 R2, Windows Server 2016
VIRTUAL SUPPORT	VMware (Version 5.5 or higher), MS Hyper-V, XEN
WEB COMPONENTS (OPTIONAL; CAN BE INSTALLED ON SEPARATE SERVER IF DESIRED)	Microsoft IIS (Internet Information Services) version 6.0 or later Microsoft .Net Framework version 2.0
DATABASE COMPONENTS (CAN BE INSTALLED ON SEPARATE SERVER IF DESIRED)	Microsoft SQL Server version 2008, 2012, 2014, 2016 Mixed Mode Authentication (Required) SQL Reporting Services (SSRS) used for Reports Pack)

NetApp Filer NAS (required for NetApp installation)

OPERATING SYSTEM	Data OnTap version 8.1 or later
SERVICE ACCOUNT	Domain User & member of local Administrators group on Filer

EMC VNX/Unity NAS (required for EMC installation)

OPERATING SYSTEM	DART version 5.6.36.2 or later
LOGIN CREDENTIALS	Login Credentials to Control Station
SERVICE ACCOUNT	Domain User & member of local Administrators group on CIFS Server

EMC Isilon NAS (required for EMC installation)

OPERATING SYSTEM	Windows Server 2008 R2, Windows Server 2012 R2, Windows Server 2016
SERVICE ACCOUNT	Single service account that requires local administrator rights

Hitachi NAS (required for Hitachi NAS installation)

OPERATING SYSTEM	HOS version 6.1.1684.18 or later
SERVICE ACCOUNT	Domain User & member of local Administrators group on CIFS Server

Important Pre-Install Points

Below are key items which were discussed to consider in preparation for a successful install of DefendX Software Vision™:

- There are two different parts to the installation of Vision. The Server install is performed on the web server and sets up the Reporting and Data Agent Admin web sites and provides the option to create the primary SQL Server databases. In order to create the databases, either the current logged in user needs to have SQL DBA permissions or a SQL account needs to be specified that has DBA permissions (such as the SA account). After the installation there is no further need for the SA account
- The Web Server can be running IIS 6.x or IIS 7.x and must have ASP.Net 2.0 and ASP as well as Windows and Basic authentication installed
- The SQL Server can be running any version of Microsoft SQL Server from SQL Server 2005 through SQL Server 2012 R2
- The SQL Server should be configured to support Mixed Mode Authentication. This is required by default, but can be worked around if this is not possible
- The Data Collection Agents require a service account that is a member of Domain Users Active Directory group and the service account must be a member of the Administrator group on the local server(s) where the Vision Data Collection Agents (DCAs) are installed. This service account must also have read/write permissions to the SQL Server Reporting Database
- The DCA's run via Windows Scheduled Tasks, meaning that the server must be configured to permit Tasks to run with their own configured credentials
- When the DCA scans a volume it will create temporary files on the local drive (by default where the Agent is installed). In normal situations the system will require 2 GB of free disk space per TB of the largest volume to be processed, but more storage is better to allow for situations where more than 2 GB per TB is needed. The system should never need more than 10 GB per TB in the largest volume scanned
- With each scan by the DCA the production Vision database will grow from between 200 MB per TB scanned to 100 GB per TB scanned depending on the nature and number of files on the storage system and the configuration of the DCA. In most cases, with default DCA settings the Agent will put 2 GB of data per TB scanned into the SQL Server database. Each scan adds to this collection of data cumulatively. You can configure the system to only keep a set number of scans. Keeping three or four scans is the norm.

Windows Edition

For the Windows Edition of Vision there is some additional configuration required:

- The hardware required to support DefendX Software Data Collection Agent for Windows Edition should be appropriate for the services running on the machine. For more specific hardware information, review the Requirements section of this document.
- DefendX Software recommends using a single service account for installing DefendX Software Data Collection Agent for Windows Edition. This account requires local administrator rights on each machine where DefendX Software Data Collection Agent for Windows Edition is installed, in addition to permission to write to the database.
- Each agent requires 50-100 MB for installation files and additional disk space for scan caching. The amount of disk space required for scan caching scales depending on the amount of disk space that the agent is configured to scan. DefendX Software recommends reserving 1 GB of additional disk space for this scan caching.

NetApp Edition

For the NetApp Edition of Vision there is some additional configuration required:

- Vision has a component called the Data Collection Agent. It uses this component to connect to and communicate with the FAS.
 - The DCA requires that the service account is a member of the local administrator group on the Filer(s) and/or vFiler(s) being scanned
 - The Filer(s) and/or vFiler(s) must have FPolicy enabled. FPolicy is the interface that allows the DCA to connect to the special Ontap_ Admin\$ share to perform the scanning operations. When the FAS is running CDOT 8.x, DCA will need to have rights to communicate with the SVMs
- Each agent requires 20 MB for installation files and additional disk space for scan caching. The amount of disk space required for scan caching scales depending on the amount of disk space that the agent is configured to scan. DefendX Software recommends reserving 1 GB of additional disk space for this scan caching.

EMC VNX/Unity Edition

For the EMC Edition of Vision there is some additional configuration required:

- Vision has a component called the Data Collection Agent. It uses this component to connect to and communicate with the VNX/Unity.
 - Service account requires administrator rights to each CIFS server
 - EMC account with nasdamin rights to the VNX control station/Unisphere
- Each agent requires 20 MB for installation files and additional disk space for scan caching. The amount of disk space required for scan caching scales depending on the amount of disk space that the agent is configured to scan. DefendX Software recommends reserving 1 GB of additional disk space for this scan caching.

EMC Isilon Edition

For the EMC Isilon Edition of Vision there is some additional configuration required:

- Use a single service account for installing DefendX Software Data Collection Agent for NAS, EMC® Isilon Edition. This account requires local administrator rights on each machine where DefendX Software Data Collection Agent for NAS, EMC® Isilon Edition is installed.
- Each agent requires 20 MB for installation files and additional disk space for scan caching. The amount of disk space required for scan caching scales depending on the amount of disk space that the agent is configured to scan. DefendX Software recommends reserving 1 GB of additional disk space for this scan caching.

Hitachi Edition

For the Hitachi Edition of Vision there is some additional configuration required:

- The hardware required to support DefendX Software Data Collection Agent, Hitachi Edition should be appropriate for the services running on the machine. For more specific hardware information, review the Requirements section of this document.
- DefendX Software recommends using a single service account for installing DefendX Software Data Collection Agent, Hitachi Edition. This account requires local administrator rights on each machine where DefendX Software Data Collection Agent, Hitachi Edition is installed and on each HNAS that the agent will scan, in addition to permission to write to the database.
- Each agent requires 20 MB for installation files and additional disk space for scan caching. The amount of disk space required for scan caching scales depending on the amount of disk space that the agent is configured to scan. DefendX Software recommends reserving 1 GB of additional disk space for this scan caching.

Things To Remember

- Our software will not affect the system performance on the storage system nor will a reboot be required to complete the installation.
- The storage will not be taken offline or restarted in any way. There will be zero down time for the users accessing the storage.
- When the installation is complete, the product is functional, but the reports will not contain usable information until the DCA is configured and a successful scan has been completed.
- SQL Sizing Metrics. Our general parameters for scans are as follows:

Vision Scan

- 1.0-1.5 GB per TB scanned (depending on what file parameters, i.e. duplicates, etc.) are selected
- This is for the SQL database for each scan. 5 TB scanned would be 7.5 GB per scan

MSDE on the DCA

- The DCA creates a folder in the install folder for local database files that is configurable in the registry.
 - This can be modified to account for low available storage on the drive that is pre-configured in Windows.
- The current Installation Guide and User Manual are included in the software that you will download as part of your purchase.

About DefendX Software

DefendX Software helps organizations secure their critical business files and maximize the value of their enterprise file storage resources. From comprehensive intelligence, modeling, costing and chargeback to seamless file movement, protection and archiving, DefendX provides industry-leading capabilities to eliminate waste and align the value of files with the storage resources they consume. With DefendX, important file locations and the users who access them can be monitored to provide governance, protect against theft and enforce compliance policies. For more than 20 years, DefendX Software has been helping public and private sector customers around the world save money and eliminate risk every day.

DefendX Software Professional Services

DefendX Software's Professional Services offers consulting, training, and design services to help customers with their storage management challenges. We have helped hundreds of customers to implement cost-effective solutions for managing their storage environments. Our services range from a simple assessment to in-depth financial analyses.

For further assistance in creating the most cost-effective Storage Management Infrastructure, please contact your DefendX Software Representative at 800-390-6937.

Legal & Contact Information

The information contained in this document is believed to be accurate as of the date of publication. Because DefendX Software must constantly respond to changing market conditions, what is here should not be interpreted as a commitment on the part of DefendX Software, and DefendX Software cannot guarantee the accuracy of any information presented after the date of publication.

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