

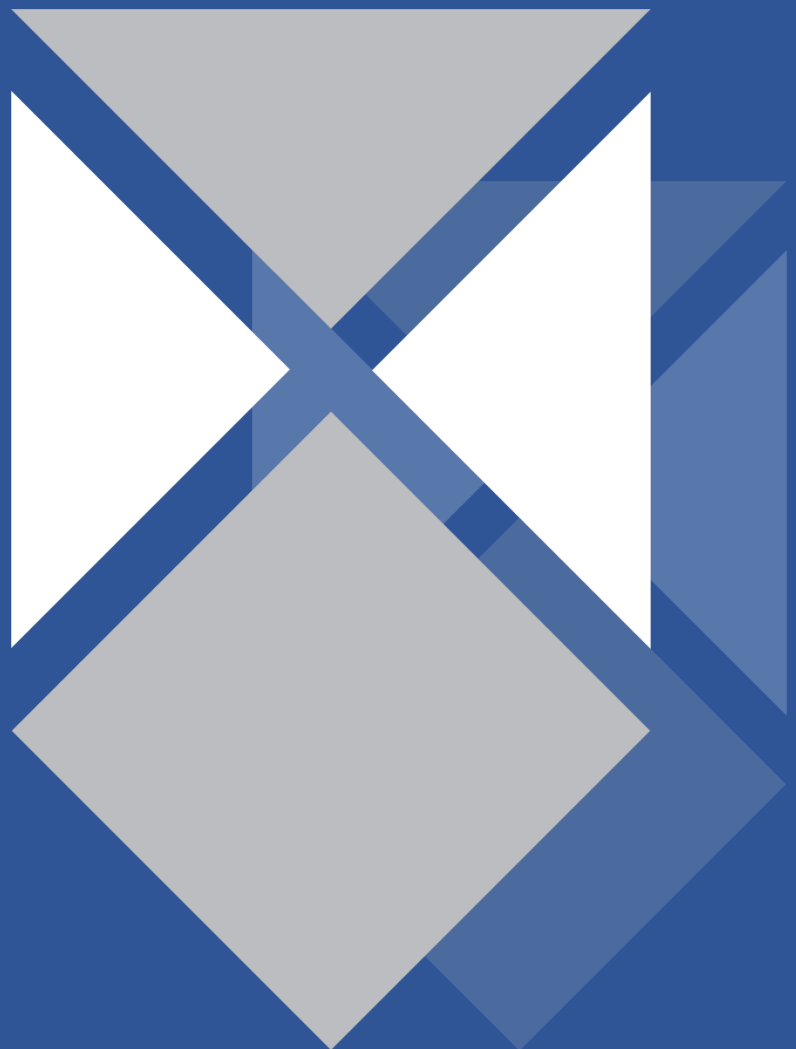


# DefendX Software Mobility™

## Installation Pre-Requirements Guide

### Version 8.2

*This guide provides quick instructions for the installation of DefendX Software Mobility Access Portal, from an administrator's perspective. Upon completion of the steps within this document, DefendX Software Mobility Access Portal will be installed within your enterprise community.*



# Table of Contents

<b>Executive Summary</b> .....	3
<b>Installation Requirements</b> .....	4
Service Account.....	4
Web Server.....	5
Database Server.....	6
Agent/Tiering Server(s) .....	7
Storage Array Requirements .....	8
<b>About DefendX Software</b> .....	9
<b>DefendX Software Professional Services</b> .....	9
<b>Legal &amp; Contact Information</b> .....	10

## Executive Summary

Thank you for your interest in DefendX Software Mobility. The latest addition to the DefendX Software product portfolio, DefendX Software Mobility enables employees to tier files; users can select from a predefined set of criteria such as file size, age of last access, or other criteria (Right-Click Data Movement™), and organizations can also establish policies that automatically tier files once users reach their storage limits (Event-Driven Data Movement™). Both methods enable companies to control storage and operating costs and to expedite backups by moving files from a primary storage environment to lower-cost tiered storage.

DefendX Software Mobility, in its simplest form, moves the contents of a file to a storage medium and leaves behind a stub to identify where its contents are located so the file can later be restored by DefendX Software Mobility. This gives customers the ability to reduce storage requirements by providing old files only when they're needed.

## Installation Requirements

There are 5 major components that need to be prepared prior to the installation of the software. While we will discuss these components as being installed in individual Windows servers, depending on the size of the installation, these components can reside on fewer Windows servers.

The 5 major components are:

1. Service Account
2. Web Server
3. Database Server
4. Agent Server(s) – if needed
5. Storage Array

### Service Account

DefendX Mobility VFM requires an Active Directory account for our services to run and for elevated privileges on filesystems that will participate in archiving. For the installation of the product, the service account needs to be assigned in the following:

1. As a member of the Local Administrators group for any servers that will have DefendX software components installed (Web Server and Agent Server). This is to allow our services to run on these servers with elevated privileges.
2. As a member of the Local Administrators group for any servers (Either Windows servers or servers on NAS platforms) that will be a SOURCE for archiving. This is to allow our services to scan the entire filesystem without encountering permissions issues.
3. OPTIONAL – The service account needs to have DBCREATOR and DBOPERATOR access to the database during the installation phase

## Web Server

DefendX Mobility VFM utilizes Microsoft Internet Information Services (IIS) as the web services component of the application. The server that will be running the Administration user interface (Admin) and any of the optional portals will require IIS to be installed on the server. The following are the requirements for this server:

- IIS Server Role enabled (IIS 7.x or later)
- .Net Extensibility 4.x
- ASP.NET 4.x (Minimum version: 4.5.2)
- Windows authentication enabled

If the web server will be a stand-alone installation, meaning that it will only run IIS and the DefendX Mobility VFM Admin and Portals, the following are the recommended specifications for that server:

- Windows Server 2008R2 or Later
- Machine Requirements:

Archived Capacity ->	<500TB	501 to 2PB	>2PB
RAM	8GB	12GB	16GB
CPU	2 cores	4 cores	6 cores
Disk	80GB	80GB	80GB

## Database Server

DefendX Mobility VFM keeps a record of each file that is moved as well as configuration information in a Microsoft SQL database. This database is used as an audit trail of all system operations and to provide the data for the search portals. During the installation phase of the deployment, an account having “create database permissions” is sufficient to install/update the databases for any of our products. An account will have the create database permissions if that account is either a “sysadmin” or “dbcreator”.

If the database server will be a stand-alone installation, meaning that it will only run MS SQL Server and no other DefendX Mobility VFM components, the following are the recommended specifications for that server:

- Windows Server 2008R2 or Later
- Microsoft SQL Server 2008 or Later (Standard or Enterprise Edition)
- Mixed Mode Authentication is recommended, but the installation can be configured to use Windows Authentication only if required
- Sizing of approximately 5GB database space per million files tiered
- Machine Requirements:

Archived Capacity ->	<500TB	501 to 2PB	>2PB
RAM	8GB	16GB	32GB
CPU	4 cores	8 cores	12 cores
Disk	40GB (plus 5GB per 1M files)	40GB (plus 5GB per 1M files)	40GB (plus 5GB per 1M files)

## Agent/Tiering Server(s)

DefendX Mobility VFM has two primary components that aid in the process of archiving, these components are:

- Core Tiering Engine (CTE) – This is the component that scans the file system and finds any files that meet the criteria set for archiving
- Task Service – this is the component that controls the movement files, both for archiving and recalling files. The Task Service component is compiled for each platform supported (Windows, EMC, NetApp, etc.)

If DefendX Mobility VFM will be used to archive files from shares hosted on Windows file servers, both these components will be installed on the Windows file server itself. If installing to support a NAS storage array, these components will be deployed on a Windows VM. Please note that a single Task Service for a specific NAS platform can manage multiple storage arrays of that NAS platform. Conversely, a Task Service and CTE can be deployed per Server hosted on a single NAS platform. The server requirements for the Agent/Tiering server(s) are as follows:

- Windows Server 2008R2 or Later
- Latest Microsoft SQL OLE DB Driver installed if using TLS 1.2
- Machine Requirements:

Archived Capacity ->	<500TB
RAM	4GB
CPU	2 cores
Disk	80GB

## Storage Array Requirements

When Using DefendX Mobility VFM to archive files from shares hosted on a NAS Storage platform, there are some requirements that need to be performed on the storage array itself. Currently the product tightly integrates with the following platforms:

- NetApp (all Storage Devices)
- EMC (VNX, Unity, eNAS)

For any arrays not listed above, the Generic Task Service can be used to archive files.

- NetApp 7mode/CDOT:
  - OnTap 8.1 or Later
  - F-policy needs to be enabled
  - Service account is local admin of filers/vFilers or SVMs being managed
  - A cluster account with ONTAPI privilege (CDOT only)
  - Low latency connection to filer
  - Commvault exception for NAS Connector service (7mode only, and if running Commvault)
- EMC VNX/Unity:
  - DART 5.6.36.2 or Later
  - Account with nasadmin rights with access to control station/Unisphere
  - Service account is local admin of any Servers to be archived from
  - On VNX and eNAS, there needs to be one CIFS server present on physical data mover for management purposes
  - Server\_CEPP service enabled and CEPP.CONF configured to specs listed in install guide
  - CEE and MMC installed in environment
  - Low latency connection to server
- EMC Isilon:
  - Service account is local admin on Isilon
  - Low latency connection to server
  -
- Hitachi:
  - Service account member of AV and Backup Operators groups
  - File filtering must be enabled
  - HCP Versioning Disabled
  - Low latency connection to server



## 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

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DefendX Software  
119 Drum Hill Road, #383  
Chelmsford MA 01824  
Phone: 1-800-390-6937  
E-mail: [info@DefendX.com](mailto:info@DefendX.com)  
Web Site: <http://www.DefendX.com>

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