

Oracle FS Provider for VMware VASA

Installation Guide

Copyright © 2005, 2015, Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

Contents

- List of Tables4
- Preface5
 - Oracle Resources5
 - Related Documentation5
- Chapter 1: Oracle FS Systems VASA Overview6
 - VASA Provider Overview6
 - VASA Provider System Requirements.....6
 - Management Networking Requirements.....7
- Chapter 2: Install the VASA Provider9
 - Installation Process Overview9
 - Administrator Accounts Overview9
 - Download the VASA Provider Software10
 - Install VASA Provider for Linux.....11
 - Install VASA Provider for Solaris12
 - Install and Configure VASA Provider for Windows12
 - (Optional) Remove the VASA Provider13
 - Remove the VASA Provider Using Windows14
 - Remove the VASA Provider Using Linux14
 - Remove the VASA Provider Using Solaris14
 - (Optional) Update the VASA Provider.....14
- Chapter 3: Configure the Environment.....16
 - Add Storage System to VASA Provider for Monitoring16
 - VASA Provider Service on vCenter Overview17
 - Add VASA Provider to vCenter Using vSphere18
 - Change VASA Provider Password19
 - VASA Service Provider Logs20
- Appendix A: Password and System Editor CLI Commands Reference21
 - Password and System Editor Commands Overview21
 - Password Editor Command21
 - System Editor Command23
- Index.....25

List of Tables

Table 1: Oracle resources.....5

Table 2: Software application requirements.....7

Table 3: Operating system requirements.....7

Preface

Oracle Resources

Important: For the latest version of this document, visit the [SAN Storage – Oracle Flash Storage Systems](http://www.oracle.com/goto/fssystems/docs) section at the Oracle Help Center (<http://www.oracle.com/goto/fssystems/docs>).

Table 1: Oracle resources

For help with...	Contact...
Support	http://www.oracle.com/support (www.oracle.com/support)
Training	https://education.oracle.com (https://education.oracle.com)
Documentation	<ul style="list-style-type: none">• SAN Storage – Oracle Flash Storage Systems: (http://www.oracle.com/goto/fssystems/docs)• From Oracle FS System Manager (GUI): Help > Documentation• From Oracle FS System HTTP access: (<i>system-name-ip</i>/documentation.php where <i>system-name-ip</i> is the name or the public IP address of your system)
Documentation feedback	http://www.oracle.com/goto/docfeedback (http://www.oracle.com/goto/docfeedback)
Contact Oracle	http://www.oracle.com/us/corporate/contact/index.html (http://www.oracle.com/us/corporate/contact/index.html)

Related Documentation

Familiarize yourself with the following related documents:

- *Oracle Flash Storage System Glossary*
- *Oracle Flash Storage System Administrator's Guide*
- *Oracle FS1-2 Flash Storage System Release Notes*

Oracle FS Systems VASA Overview

VASA Provider Overview

The Oracle FS Provider for VMware VASA enables VMware vCenter Servers to obtain and provide extended storage information about an Oracle FS System and the LUNs exported to the VMware ESX Servers.

The VMware vCenter Server uses the VASA Provider functions to retrieve information about storage topology, capabilities, and status from an Oracle FS System. This information enables a VMware vSphere Server administrator to monitor associated storage with vendor-specific detail without leaving the VMware vCenter client environment. The VASA Provider is installed on a server that is separate from the VMware vSphere Server. The VASA Provider is registered on the VMware vCenter Server to enable communication between the VMware vCenter and the Oracle FS System.

Note: The product name is Oracle FS Provider for VMware VASA and in this document, the product is also referred to as the VASA Provider for brevity.

Related Links

[*VASA Provider System Requirements*](#)

[*Management Networking Requirements*](#)

VASA Provider System Requirements

VASA Provider has specific version requirements for software applications and operating systems.

The following table summarizes the requirements for software applications.

Table 2: Software application requirements

Product	Version	Notes
Oracle FS System	6.1 or higher	The system where components, such as physical drives (LUNs) and clones reside. The VASA Provider communicates with the Oracle FS System to obtain information for the VMware vCenter Server.
VMware vCenter Server	6.0	The VMware vCenter Server is used to gather and display storage information. The VASA Provider is registered with the VMware vCenter to enable communication with the Oracle FS System.
vSphere Client	5.1 or higher	The vSphere Client is used to monitor and manage storage from the VMware vCenter Server. The client provides an interface to the VMware vCenter Server. The vSphere Client works with the Oracle vSphere Plug-in 3.5 for Oracle Flash Storage System to monitor and manage an Oracle FS System.

The following table summarizes the requirements for operating systems.

Table 3: Operating system requirements

Product or operating system	Version	Notes
Microsoft Windows Server	2008 or 2012	The VASA Provider software can be installed on a Windows Server.
Linux <ul style="list-style-type: none"> Oracle Enterprise Linux with unbreakable kernel Red Hat Enterprise Linux 	5.9, 6.3, or 7.0 or higher	The VASA Provider software can be installed on a Linux workstation.
Solaris	10 or 11	The VASA Provider software can be installed on a Solaris Intel or Sparc workstation.

Management Networking Requirements

VASA Provider software communicates over a secure port with the Oracle FS System Pilot. The host where VASA Provider is installed requires a TCP/IP connection for communication with the Oracle FS System.

For Oracle FS System to communicate with VASA Provider, an open communication path must exist to TCP port 8083. TCP port 8083 is open by default on the Oracle FS System Pilot.

Network firewalls can be running on the host or in the network between the host and the Oracle FS System Pilot. Firewall settings can block access to port 8083. Changes to the firewall settings can block a port that was previously open.

Verify that communication can occur between Oracle FS System and VASA Provider.

Install the VASA Provider

Installation Process Overview

The process for installing VASA Provider depends upon the operating system. The process is the same for Linux and Solaris, but the process is different for Microsoft Windows.

The installation process is defined in the following list:

- 1 On the OTN, open the [Oracle Flash Storage and Pillar Axiom Downloads](http://www.oracle.com/technetwork/server-storage/san-storage/downloads/index.html) page (<http://www.oracle.com/technetwork/server-storage/san-storage/downloads/index.html>) in a web browser.
- 2 Depending on your operating system, continue the installation using one of the following steps:
 - For Linux or Solaris, install the package. After the installation is complete, you must change the default password for the VASA Provider administrator account. You must also add an Oracle FS System to be monitored by the VASA Provider.
 - For Windows, install and configure the VASA Provider. The process includes setting a password for the VASA Provider administrator account and adding an Oracle FS System to be monitored.

Related Links

[Install VASA Provider for Linux](#)

[Install VASA Provider for Solaris](#)

[Install and Configure VASA Provider for Windows](#)

[Change VASA Provider Password](#)

[Add Storage System to VASA Provider for Monitoring](#)

Administrator Accounts Overview

Oracle recommends that you create a unique administrator account or accounts for VASA Provider. You use these accounts to obtain information from the Oracle FS System.

You can create multiple administrator accounts in an Oracle FS System. Additional accounts are not required, however, Oracle recommends that you create a Monitor account on each Oracle FS System that is monitored by the Oracle FS Provider for VMware VASA.

An administrator with Administrator 1 privileges must create a Monitor account on the Oracle FS System. The administrator who creates the account provides the name and password for the Monitor account to the plug-in administrator. Oracle recommends that you do not use the Oracle FS System Primary Administrator account for the provider account.

Refer to the *Oracle Flash Storage System Administrator's Guide* for details about administrator account levels and their privileges on the Oracle FS System.

Note: Passwords on the Oracle FS System must be changed every 180 days. A Monitor account does not provide the ability to change passwords; only an Administrator 1 account can change passwords. Therefore, remember to change the password used for the Monitor account every 180 days or the account locks and VASA Provider cannot communicate with the Oracle FS System. The VASA Provider password can be changed using the `OFSVASAProviderPasswordEditorTool` scripts.

The accounts you create on the Oracle FS System are used when you add a storage system to be monitored by VASA Provider.

Note: VASA Provider has its own administrator account, which is *OracleVASA*. This account is only used to administer the VASA Provider software. This administrator account is separate from the Oracle FS System. The password for this account expires every 120 days. Oracle recommends that you set the passwords for the Oracle FS System Monitor account and the VASA Provider at the same time to simplify password management.

Refer to the *Oracle Flash Storage System Administrator's Guide* for details about creating administrator accounts on the Oracle FS System.

Download the VASA Provider Software

The software and documentation are distributed as a single zip archive that is available for download from the Oracle Technology Network (OTN).

Prerequisite: To gain access to software and documentation downloads, join the [Oracle Technology Network](http://www.oracle.com/technetwork/community/join/why-join/index.html) (<http://www.oracle.com/technetwork/community/join/why-join/index.html>).

- 1 On the OTN, open the [Oracle Flash Storage and Pillar Axiom Downloads](http://www.oracle.com/technetwork/server-storage/san-storage/downloads/index.html) page (<http://www.oracle.com/technetwork/server-storage/san-storage/downloads/index.html>) in a web browser.
- 2 From Oracle FS System and Pillar Axiom Downloads, select Accept License Agreement.
- 3 Locate and select the name of the software package to download.
- 4 Open the software archive and extract the contents to your workstation. The software archive contains a `readme.txt` file listing the contents of the archive, the installation executable file, and documentation.

After you download the software, you can install the software.

Install VASA Provider for Linux

You can install the Oracle FS Provider for VMware VASA package on Red Hat Enterprise Linux and Oracle Enterprise Linux operating systems.

Prerequisite: Install the software on a workstation that can communicate with the Oracle FS System. Do not install the software on the same server as the VMware vCenter Server.

Make sure that you are using the correct Oracle FS Provider for VMware VASA installer package for your Linux system architecture. Use the following list (where `x.x.x` is the version number for the software package, such as 2.0.0.) to choose the correct installer package:

- For 32-bit Oracle Enterprise Linux 6: `ofsvasa_OEL6_x86_x.x.x.rpm`
- For 64-bit Oracle Enterprise Linux 6: `ofsvasa_OEL6_x86_64_x.x.x.rpm`
- For 64-bit Oracle Enterprise Linux 7: `ofsvasa_OEL7_x86_64_x.x.x.rpm`

Note: 32-bit Oracle Enterprise Linux 7 is not supported.

- 1 Copy the installation archive file to the Linux workstation.
- 2 To extract and install the archive file, use the `rpm` utility:
`$ rpm -i InstallPackageName`
 (where `InstallPackageName` is the filename of the installation package).

Oracle FS Provider for VMware VASA installs to the following default directory:

```
$ /opt/ofsvasa
```

- 3 (Optional) Set the security permissions of Oracle FS Provider for VMware VASA to restrict access to the executable files to authorized personnel. Follow your corporate security guidelines.
To change permissions on these directories, enter the following commands:

```
chmod 700 /opt/ofsvasa/tools/  
OFSVASAProviderPasswordEditorTool.sh  
chmod 700 /opt/ofsvasa/tools/OFSVASASystemEditorTool.sh
```

Note: Security restrictions vary by location. Consult your system administrator for the proper security setting.

After installing the software, you can change the Oracle FS Provider for VMware VASA password and optionally add an Oracle FS System that you want monitored by the Oracle FS Provider for VMware VASA software.

Install VASA Provider for Solaris

You can install the Oracle FS Provider for VMware VASA software on Solaris SPARC or Solaris Intel architectures.

Prerequisite: Install the software on a workstation that can communicate with the Oracle FS System. Do not install the software on the same server as the VMware vCenter Server.

Make sure that you are using the correct Oracle FS Provider for VMware VASA installer package for your Solaris system architecture. Use the following list (where *x.x.x* is the version number for the software package, such as 2.0.0.) to choose the correct installer package:

- For 64-bit Solaris on Intel: `ofsvasa_x64_x.x.x.pkg`
- For 64-bit Solaris on SPARC: `ofsvasa_sparcv9_x.x.x.pkg`

Note: 32-bit Solaris systems are not supported.

- 1 Copy the installation archive file to the Solaris server.
- 2 To extract and install the archive file, use the `pkgadd` command:
`$ pkgadd -d InstallPackageName`
 (where `InstallPackageName` is the filename of the installation package).

Oracle FS Provider for VMware VASA installs to the default directory:

```
$ /opt/ofsvasa
```

- 3 (Optional) Set the security permissions of the Oracle FS Provider for VMware VASA permissions to restrict access to the executable files to authorized personnel. Follow your corporate security guidelines. For example to change the permissions of these files, enter the following commands:

```
chmod 700 /opt/ofsvasa/tools/  
OFSVASAProviderPasswordEditorTool.sh  
chmod 700 /opt/ofsvasa/tools/OFSVASASystemEditorTool.sh
```

Note: Security restrictions vary by location. Consult your system administrator for the proper security setting.

After installing the software, you can change the Oracle FS Provider for VMware VASA password and optionally add an Oracle FS System that you want monitored by the Oracle FS Provider for VMware VASA software.

Install and Configure VASA Provider for Windows

Install Oracle FS Provider for VMware VASA by installing the software that you downloaded to your host system.

Prerequisites:

- You are logged in as an administrator on the workstation.

- Install the software on a server which can access the Oracle FS System.
- (Optional) Add one or more Oracle Flash Storage Systems to be monitored. You must know the IP address or hostname and the Monitor account name and password for each Oracle FS System.

The process of installing Oracle FS Provider for VMware VASA on Windows also includes configuration tasks. These tasks include the following list:

- Install the software on Microsoft Windows server.
- Create a password for the Oracle FS Provider for VMware VASA software.
- (Optional) Add an Oracle Flash Storage System to be monitored.

- 1 Locate the downloaded Oracle FS Provider for VMware VASA installation package on your system and extract the file to a folder.

Note: The filename for the Oracle FS Provider for VMware VASA installation package is `OracleFSPProviderForVASA_n.n.n.zip`, where `n.n.n` is the version number, such as `2.0.0`. The software supports both 32-bit and 64-bit hardware.

- 2 Run the `OracleFSPProviderForVASA_n.n.n.msi`, where `n.n.n` is the version number, such as `2.0.0`, to install the program.

Note: Oracle recommends accepting the default installation folder location.

- 3 From the Welcome to the Oracle FS Provider for VMware VASA InstallShield Wizard, click Next.
- 4 Follow the instructions for changing the Oracle FS Provider for VMware VASA administrator password and for adding one or more Oracle Flash Storage Systems.
- 5 From the Completing the Oracle FS Provider for VMware VASA InstallShield Wizard, click Finish.

After installing the software, you can change the Oracle FS Provider for VMware VASA password and optionally add an Oracle FS System that you want monitored by the Oracle FS Provider for VMware VASA software.

(Optional) Remove the VASA Provider

If you no longer need Oracle FS Provider for VMware VASA, you can uninstall it.

Prerequisite: When you uninstall the Oracle FS Provider for VMware VASA software, all information is removed, including passwords and information for any Oracle FS System. If you intend to install the software again and monitor the same storage systems again, make a note of the IP address or hostname, and the user account and password information for each Oracle FS System that was monitored.

Uninstalling Oracle FS Provider for VMware VASA removes the software and all information, including the IP address or hostname, user account and password for any Oracle FS System that was monitored.

Related Links

[Install VASA Provider for Linux](#)

[Install VASA Provider for Solaris](#)

[Install and Configure VASA Provider for Windows](#)

Remove the VASA Provider Using Windows

- 1 Navigate to Start > **Settings** > Control Panel > Add or Remove Programs.
- 2 From the Add or Remove Programs dialog, select the Oracle FS Provider for VMware VASA software program, and click Remove.

Remove the VASA Provider Using Linux

To uninstall the software, use the `rpm -e` command.

The software is removed, including all configuration information.

Remove the VASA Provider Using Solaris

To uninstall the software, use the `pkgrm` command.

The software is removed, including all configuration information.

(Optional) Update the VASA Provider

When a new version of the Oracle FS Provider for VMware VASA software is available, you can update your version of the plug-in software.

Prerequisite: When you update the Oracle FS Provider for VMware VASA software, all information is removed, including passwords and information on monitored Oracle FS System. If you update the Oracle FS Provider for VMware VASA software, make a note of the IP address or hostname, and the user account and password information for each Oracle FS System that was monitored.

When you update the software, all configuration information is lost. After you have installed the software, perform the configuration tasks as described in the installation process.

- 1 Follow the instructions to remove the previous version of the Oracle FS Provider for VMware VASA software.
- 2 Follow the instructions to download the update installation package from the Oracle Technology Network (OTN) to download the software.
- 3 Follow the instructions to install the software.

Related Links

[Download the VASA Provider Software](#)

[Install VASA Provider for Linux](#)

[Install VASA Provider for Solaris](#)

[Install and Configure VASA Provider for Windows](#)

Configure the Environment

Add Storage System to VASA Provider for Monitoring

After installing the Oracle FS Provider for VMware VASA package on an operating system, you can add an Oracle FS System to be monitored.

- Prerequisites:
- The host where Oracle FS Provider for VMware VASA is installed must be able to communicate with the Oracle FS System that you want to monitor.
 - For each Oracle FS System that you want to monitor, you need a user account and password. Oracle recommends that you create a unique account on each Oracle FS System to use with Oracle FS Provider for VMware VASA.

- 1 Navigate to the Oracle FS Provider for VMware VASA folder where the software is located.
 - For Linux and Solaris, the default directory is `/opt/ofsvasa/tools`.
The file name is `OFSVASASystemEditorTool.sh`.
 - For Windows, the default directory is `Program Files/Oracle Corporation/Oracle FS Provider for VMware VASA/tools/`.

Note: The tools are located in the tools directory.

The file name is `OFSVASASystemEditorTool.bat`.

- 2 To start the utility, enter one of the following commands on the command line:
 - For Linux and Solaris: `OFSVASASystemEditorTool.sh`
 - For Windows: `OFSVASASystemEditorTool.bat`

If you do not specify any options, the help information is displayed.

The system editor utility starts and you can enter commands.

- 3 To add an Oracle FS System, enter the following commands:
`OFSVASASystemEditorTool -add -host <host> -user <user>`

Provide the host name (which is a DNS or IP address), and the administrator account information for the Oracle FS System.

The system prompts you for the account password.

The Oracle FS System configuration information is saved.

- 4 You can validate the configuration by using the `-list` option to view the configuration information:

```
OFSVASASystemEditorTool -list
```

If the command was successfully entered, the following information displays:

```
[root@oracle tools]# sh OFSVASASystemEditorTool.sh -list
ConnectionInfo: Host: ofs.us.oracle.com User: administrator
Password: ***** Timeout: 30 Succeeded. [root@oracle tools]#
```

When you add an Oracle FS System and the Oracle FS Provider for VMware VASA is online, the Oracle FS Provider for VMware VASA recognizes the Oracle FS System immediately and begins monitoring the system.

Important: Nothing is delivered to the vCenter client until the Oracle FS Provider for VMware VASA is registered with the VMware vCenter Server.

Related Links

[System Editor Command](#)

VASA Provider Service on vCenter Overview

After installing the software, you must add the Oracle FS Provider for VMware VASA as a Service Provider to the vSphere center using the vSphere client.

After you install the Oracle FS Provider for VMware VASA software, you must access the vSphere client to add the Oracle FS Provider for VMware VASA as a Service Provider.

The Service Provider information displayed in vSphere Center includes these fields:

Provider Name	Oracle Corporation
Provider Status	Online or Offline. If the Provider Status is offline, check for the following conditions: <ul style="list-style-type: none"> • Verify that the server where Oracle FS Provider for VMware VASA is installed can communicate with the server where the VMware vCenter is installed. • Verify that the Oracle FS Provider for VMware VASA password has not expired.
Provider Version	The version number for the Oracle FS Provider for VMware VASA.
API Version	The API version number for the Oracle FS Provider for VMware VASA.
Default Namespace	<code>com.oracle.ofs.vasaprovider</code>

Supported Vendor IDs	Oracle
Supported Model IDs	The storage system model, such as Oracle FS System.

Add VASA Provider to vCenter Using vSphere

You must add the Oracle FS Provider for VMware VASA as a Service Provider to the vSphere center using the vSphere client.

- Prerequisites:
- Access to a vSphere client, version 6.0 or higher.
 - You need the following information about the Oracle FS Provider for VMware VASA:
 - Information on the server location where the Oracle FS Provider for VMware VASA is installed.
 - Login and password that you created when you installed and configured the Oracle FS Provider for VMware VASA software. The login and password is not the administrator account and password for the Oracle FS System monitored by the Oracle FS Provider for VMware VASA software.

To add a Service Provider using the vSphere client, follow these steps:

- 1 Navigate to Home > Storage Providers.
- 2 Click Add to display the Add Vendor Provider dialog.
- 3 Enter the following information:

Name	Enter a name for the service provider. Oracle recommends that you use <i>Oracle FS Provider for VMware VASA</i> as the name of the service provider.
URL	The location where the Oracle FS Provider for VMware VASA is installed (for example, <code>https://server.com:8443/vasa/version.xml</code>).
	Note: You cannot change the port path or the file path.
Login	The login account name, OracleVASA, for the VASA Provider. You cannot create or change this default login account name.
Password	The password the user created for the OracleVASA account on the Oracle FS Provider for VMware VASA.

Note: Do not check the **User Vendor Provider Certificate** check box. The User Vendor Provider Certificate feature is not used with this implementation.

- 4 Click OK to add the Oracle FS Provider for VMware VASA as a service provider.

After you select OK, the storage provider is created and appears under the Vendor Providers column. To display details, select the storage profile under Vendor Providers.

Change VASA Provider Password

After installing the software for the first time, you set the password immediately. The password is valid for 120 days. You must update the password used for the Oracle FS Provider for VMware VASA every 120 days.

Prerequisite: Understand the following password rules:

- The password expires every 120 days. Oracle recommends that you change this password at the same time you change the Monitor password on the Oracle FS System.
- Minimum password length is eight characters.
- Must contain at least one uppercase letter, one lowercase letter, and one numeric character.
- Cannot be any of the last 50 passwords.

Note: The system retains recent passwords for one year.

- 1 Navigate to the Oracle FS Provider for VMware VASA folder where the `OFSVASAPasswordEditorTool` is located.
 - On Linux and Solaris, the default directory is `/opt/ofsvasa/tools`.
 - On Windows, the default directory is `Program Files/Oracle Corporation/Oracle FS Provider for VMWare VASA/tools/`.

Note: The tools are located in the tools directory.
- 2 Depending on your operating system, complete one of the following steps:
 - For Linux or Solaris, start the `OFSVASAPasswordEditorTool.sh` utility in the tools directory by entering the following command:
`OFSVASAPasswordEditorTool.sh`
The password utility is started and you can enter commands. If you do not enter any options, the command help is displayed.
 - For Windows, start the `OFSVASASystemEditorTool.bat` utility by entering the following command:
`OFSVASAPasswordEditorTool.bat`

The password utility is started and you can enter commands.

- 3 To change the password, enter the following command:

```
OFSVASAProviderPasswordEditorTool -changePassword
```

You are prompted to enter the password using a standard command line started by the password utility. When you are finished entering the password command, press Enter.

The password is saved. If you do not enter any options, the command help is displayed.

- 4 You can validate whether the password change was successful by querying the password expiration date using the following command:

```
OFSVASAProviderPasswordEditorTool -passwordExpirationQuery
```

If the command was successfully entered, the following information displays:

```
Password lifetime (in days) : 120
```

Related Links

[Password Editor Command](#)

VASA Service Provider Logs

To support or troubleshoot Oracle FS Provider for VMware VASA, use the log files.

If the Oracle FS Provider for VMware VASA is not communicating with the Oracle FS System, navigate to the directory where Oracle FS Provider for VMware VASA was installed for information related to the problem.

The logs available from the logs directory are the tools log (`vasaTools.log`), and the install logs (`install.log`). The logs in the `tomcat/logs` directory are the logs for the Tomcat server and the Oracle FS Provider for VMware VASA log (`vasa.log`).

Password and System Editor CLI Commands Reference

Password and System Editor Commands Overview

Oracle FS Provider for VMware VASA installs with a command line interface (CLI) that provides commands that you use to configure and maintain the Oracle FS Provider for VMware VASA after installation.

You use these CLI commands to perform the following tasks:

Password Editor	The <code>OFSVASAPasswordEditorTool</code> command is used to change the Oracle FS Provider for VMware VASA password. The <code>OFSVASAPasswordEditorTool</code> command is not used to change the password for the Oracle FS System.
System Editor	The <code>OFSVASASystemEditorTool</code> command is used to add or modify account information, which includes user account and password information, for an Oracle FS System that you are monitoring with the Oracle FS Provider for VMware VASA. You can also change the communication timeout value between the Oracle FS Provider for VMware VASA and the Oracle FS System.

Password Editor Command

Used to change the Oracle FS Provider for VMware VASA password.

SYNOPSIS

```
OFSVASAPasswordEditorTool -help
```

```
OFSVASAPasswordEditorTool [-changePassword]
                             [-passwordExpirationQuery]
```

DESCRIPTION

You must change the password every 120 days. If the password expires, the Oracle FS Provider for VMware VASA stops working.

The password creation rules are defined in the following list:

- The password expires every 120 days. Oracle recommends that you change this password at the same time you change the Monitor password on the Oracle FS System.
- Minimum password length is eight characters.
- Must contain at least one uppercase letter, one lowercase letter, and one numeric character.
- Cannot be any of the last 50 passwords.

Note: The system retains recent passwords for one year.

SUBCOMMANDS

<code>-help</code>	Displays the help documentation.
<code>-changePassword</code>	Changes the password for Oracle FS Provider for VMware VASA. The user is prompted to enter the password on the command line (STDIN). The command is blocked until the password is typed into the command line, and you press the Enter key.
<code>-passwordExpirationQuery</code>	Displays the lifetime remaining for the password for Oracle FS Provider for VMware VASA.

Note: You can use a shortened form of the command. For example, use the `-e` option instead of the `-passwordExpirationQuery` option.

EXAMPLE

To display when a password is set to expire, run the Password Editor Tool command with `-passwordExpirationQuery`.

For Linux or Solaris, use the following command:

```
$ sh OFSVASAPasswordEditorTool.sh
-passwordExpirationQuery
```

For Windows, use the following command:

```
$ OFSVASAPasswordEditorTool.bat
-passwordExpirationQuery
```

Results:

```
[root@oracle tools]# sh
OFSVASAPasswordEditorTool.sh
-passwordExpirationQuery
Password expiration: Wen Apr 01 14:04:30 MST 2015
Succeeded.
[root@oracle tools]#
```

Related Links

[Change VASA Provider Password](#)

System Editor Command

Used to manage any Oracle FS System that is monitored by Oracle FS Provider for VMware VASA.

SYNOPSIS

```
OFSVASASystemEditorTool -help
```

```
OFSVASASystemEditorTool [-delete] [-list] [-add][[-modify] [-host arg ]  
[-timeoutarg ]][-userarg ]
```

DESCRIPTION

Use the system editor command to perform the following actions:

- Delete storage systems that do you not want to monitor
- Modify systems (for example, change an administrator or a password on the storage system)
- Change the timeout value used for communications between the server, where Oracle FS Provider for VMware VASA is installed, and the Oracle FS System

SUBCOMMANDS

-help	Displays the help documentation.
-list	Displays any Oracle FS System that is monitored by the Oracle FS Provider for VMware VASA.
-delete	<p>Deletes the specified Oracle FS System that is monitored by the Oracle FS Provider for VMware VASA.</p> <p>Valid option:</p> <p>-host The DNS or IP address of the Oracle FS System. The -host subcommand must be used with the -delete option.</p>
-modify	<p>Modifies the specified Oracle FS System information that is monitored by the Oracle FS Provider for VMware VASA.</p> <p>Valid options:</p> <p>-host Sets the DNS or IP address of the Oracle FS System. The -host subcommand must be used with the -modify option.</p> <p>Note: You cannot modify the DNS or the IP address. The DNS or the IP address is used to identify the record that you want to modify. Changing the DNS or the IP address can only</p>

be done by deleting one record and then adding a new record.

- user** Changes the administrator (Monitor) account and password information for the Oracle FS System that is used by the Oracle FS Provider for VMware VASA software. When you must change the administrator (Monitor) password stored in the Oracle FS Provider for VMware VASA to match the password on the Oracle FS System, you specify the **-user** option.
- timeout** Sets the timeout value, in seconds, used for accessing the Oracle FS System from the Oracle FS Provider for VMware VASA. The default value is 30 seconds.

Note: You can use a shortened form of the command. For example, use the **-l** option instead of the **-list** option.

EXAMPLE

To display the details, run the System Editor Tool command.

For Linux or Solaris, use the following command:

```
$ sh OFSVASASystemEditorTool.sh -list
```

For Windows, use the following command:

```
$ OFSVASASystemEditorTool.bat -list
```

Results:

```
[root@oracle tools]# sh OFSVASASystemEditorTool.sh -list
ConnectionInfo:
  Host:      ofs.us.oracle.com
  User:      administrator
  Password:  *****
  Timeout:   30
Succeeded.
[root@oracel tools]#
```

Related Links

[Add Storage System to VASA Provider for Monitoring](#)

Index

A

administrator accounts
overview [9](#)

C

CLI
password editor [21](#)
system editor [21](#)
command line interface, *see* CLI
commands
password editor [21, 22](#)
system editor [23, 24](#)
configuration
network ports [7](#)
contact information [5](#)
customer support [5](#)

D

documentation
feedback [5](#)
download
VASA Provider software [10](#)

E

education programs [5](#)

F

feedback, documentation [5](#)

H

hardware
requirements [6](#)

L

license
requirements [6](#)
logs
VASA provider [20](#)

O

online help [5](#)
Oracle documentation [5](#)
Oracle FS System
administrator accounts [9](#)
Oracle Help Center (OHC) [5](#)

P

password editor CLI command [21, 22](#)
ports
network [7](#)
VASA provider [7](#)
product support [5](#)

R

registration
VASA provider [17](#)
requirements
hardware [6](#)
license [6](#)
software [6](#)
requisite reading [5](#)

S

sales information [5](#)
software
requirements [6](#)
Support portal [5](#)
system editor CLI command [23, 24](#)

T

training programs [5](#)

V

VASA provider
add to vCenter [18](#)
dependencies [6](#)
functionality [6](#)
logs [20](#)
registration [17](#)
uninstall [13](#)
update [14](#)
VASA Provider
add storage system [16](#)
change password [19](#)
install for Linux [11](#)
install for Solaris [12](#)
install for Windows [12](#)
VASA Provider software
download [10](#)