

VMware vCenter Configuration Manager and VMware vCenter Application Discovery Manager Integration Guide

vCenter Configuration Manager 5.4

vCenter Application Discovery Manager 6.0

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About This Book

This manual, *vCenter Configuration Manager and Application Discovery Manager Integration Guide*, describes how to integrate Application Discovery Manager with vCenter Configuration Manager (VCM). This document describes:

- Configuring the Application Discovery Manager integration
- Configuring the VCM integration
- Using Application Discovery Manager in Service Assurance Manager

Read this document and complete the associated procedures to prepare for a successful integration.

Intended Audience

The information presented in this manual is written for system administrators who are experienced Windows or UNIX/Linux system administrators and who are familiar with managing network users and resources, and performing system maintenance.

To use this information effectively, you must have a basic understanding of how to configure network resources, install software, and administer operating systems. You also need to fully understand your network's topology and resource naming conventions.

Document Feedback

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VMware vCenter Configuration Manager Documentation

The *vCenter Configuration Manager and Application Discovery Manager Integration Guide* consists of the vCenter Configuration Manager documentation and this manual.

Technical Support and Education Resources

The following technical support resources are available to you. To access the current version of this book and other books, go to <http://www.vmware.com/support/pubs>.

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Configuring Application Discovery Manager for Integration

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Integration between VMware vCenter Application Discovery Manager (ADM), and VMware vCenter Configuration Manager (VCM) provides VCM-rich relationship and configuration details. The views include the devices dependencies and underlying infrastructure configurations.

Configuring the integration between ADM and VCM requires the following:

- **Configure ADM for Integration:** The ADM configuration process is primarily comprised of installing an external ADM database on the VCM Collector (or SQL database) machine, and then configuring the synchronization of data from the main ADM database to the external ADM SQL database. VCM integrates with the synchronized data in the external database.
- **Configure VCM for Integration:** The integration with ADM is built into VCM. Configuring integration in VCM requires only the configuration of the settings.

Before VCM users have access to the ADM data, the Application Discovery Manager integration with VCM requires the following:

- **ADM External Database:** An external SQL database is installed on the VCM database machine.
- **Synchronization:** The main ADM database must be configured to synchronize data with the external ADM database.
- **Client Browsers:** Install Internet Explorer and Java on the VCM client machines.
- **User Accounts:** Create one or more ADM user accounts to be used by VCM users to access ADM.

These requirements are described next. After the integration is complete, you can access ADM data while working in VCM. The final section of this manual provides instructions for launching ADM details and ADM maps.

Installing the ADM SQL Database

VCM does not directly access the main ADM database. Rather, an external Microsoft SQL database is installed on the VCM Collector machine (or on the database machine, in the case of split installations).

Detailed instructions for installing and configuring the external MS SQL database are provided in the *VMware vCenter Application Discovery Manager: Repository Reference Guide*. Review that manual and follow the directions in it for installing and configuring the SQL database. Then use this integration guide for additional configuration information unique to the VCM integration.

When modifying the installation scripts, be sure to replace `<serverName>` with the name of the SQL Server instance running the VCM database.

Configuring the ADM Database Synchronization

After installing the external ADM SQL database, you must configure the synchronization of the ADM data from the main database to external database.

Instructions for configuring the synchronization are provided in the *VMware vCenter Application Discovery Manager: Repository Reference Guide*. Follow the instructions for configuring the synchronization.

The synchronization process uses FTP to send data from the main ADM database to the external database. When creating your synchronization schedule, be sure the synchronization is set to be regular enough to keep the external data current enough so that it is of use to VCM users.

Preparing the Client Browsers

In order to view the ADM maps, Internet Explorer and Java must be installed on any VCM machines using the integration with the ADM Console. The requirements include:

- Microsoft Internet Explorer 6.0, available from the [Microsoft Website](#).
- Java Runtime Environment, version 5.0.3 or later, available from the [Java Website](#).

Creating Users for Integration

Any user who will be accessing the ADM data must have an ADM user name and password. In ADM, you must create user accounts and distribute the login information to all VCM users who will be accessing the ADM data. A user login is required at the beginning of each session when a user accesses the ADM details or ADM maps.

Configuring VCM for Integration

The integration with ADM is built into VCM. To configure the integration with ADM, you only need to configure the ADM integration settings.

Configuring VCM Integration Settings

Before you can use the ADM integration options, you must configure the settings.

1. In VCM, Select the setting to be configured, and then click **Edit Settings**.
2. The **Settings Wizard** page appears. The information to be configured in the wizard varies depending on selected setting. The configuration options are as follows:
 - **ADM Integration Enabled**
 - Select **Yes** to enable the integration or **No** to disable the integration.
 - If enabled, the **View ADM Detail** and **View ADM Map** buttons become active when you are working with machine data, for example, **Console > Windows > Operating Systems > Machines**.
 - If the setting is enabled, the **ADM Reporting Database Name** and **ADM Server Name or IP Address** must also be configured.
 - **ADM Reporting Database Name**
 - Type the name of the SQL database created on the Collector to synchronize with the ADM database. The default value is ADM.
 - **ADM Server Name or IP Address**
 - Type the IP address or server name of the ADM server.
 - **Maximum number of hosts that may be submitted to ADM Map View**
 - Type the maximum number of machines/hosts to display when you select the **View ADM Map** button. While 10 is the default value, it is recommended that you only view 3 or 4 devices in a map view. If you view more than 4 devices, the displayed map is too complex to be useful.
3. Verify your settings. Click **Finish**. The settings are applied.

NOTE You must either press F5 to refresh the Console, or log out and log back in to view the active buttons.

Using Application Discovery Manager in VCM

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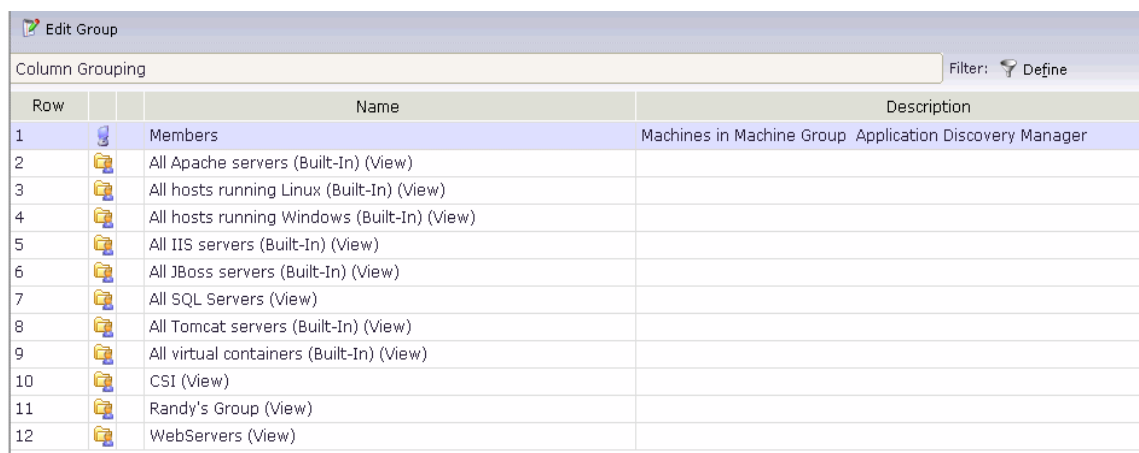
After configuring your integration with ADM, you can now access ADM's rich application details and dependency maps while working in VCM.

As a dependency discovery tool, ADM enhances VCM's view of machines and machine relationships before implementing changes in the network. The ADM discovered data, which is very detailed, is read-only. By using ADM with VCM, you will be able to view deep details about a machine (View ADM Details) and view the relationships between machines (View ADM Map) while still using VCM to manage changes.

Machine Group Synchronization

The ADM data is synchronized with the ADM external database, which is then reconciled with VCM data. The machine reconciliation is based on the MAC address, machine name, and IP address. After the machine data is reconciled, ADM's groups are replicated in VCM as Machine Groups.

To view the ADM machine group, click **Administration > Machine Manager > Machine Groups > All Machines > vCenter Application Discovery Manager**. The **vCenter Application Discovery Manager** data grid appears, displaying the groups. Double-click the group to display the detailed machine data grid for each group.



The screenshot shows the 'Edit Group' window in vCenter. It features a table with columns for 'Row', 'Name', and 'Description'. The table lists various machine groups, including 'Members', 'All Apache servers (Built-In) (View)', 'All hosts running Linux (Built-In) (View)', 'All hosts running Windows (Built-In) (View)', 'All IIS servers (Built-In) (View)', 'All JBoss servers (Built-In) (View)', 'All SQL Servers (View)', 'All Tomcat servers (Built-In) (View)', 'All virtual containers (Built-In) (View)', 'CSI (View)', 'Randy's Group (View)', and 'WebServers (View)'. The 'Members' group is highlighted in blue.

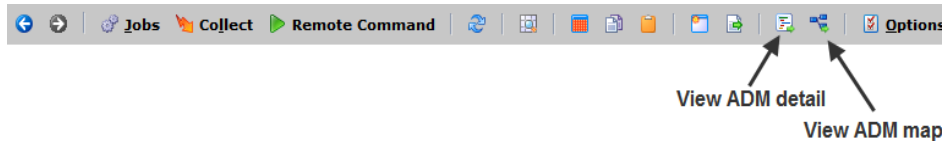
Row	Name	Description
1	Members	Machines in Machine Group Application Discovery Manager
2	All Apache servers (Built-In) (View)	
3	All hosts running Linux (Built-In) (View)	
4	All hosts running Windows (Built-In) (View)	
5	All IIS servers (Built-In) (View)	
6	All JBoss servers (Built-In) (View)	
7	All SQL Servers (View)	
8	All Tomcat servers (Built-In) (View)	
9	All virtual containers (Built-In) (View)	
10	CSI (View)	
11	Randy's Group (View)	
12	WebServers (View)	

ADM Tools in VCM

You can view machine-related data from the Console, including Window, UNIX, and Virtual Environments. There is no link to Active Directory data because it does not relate to a specific machine.

You can access two views of ADM data when ADM is enabled. The methods to access the options include:

- **VCMtoolbar:** In the data grid, select a row, and then click one of the ADM buttons in the main toolbar.



- **Local Menu:** In the data grid, right-click on a row. In the local menu, select one of the menu options.

Viewing ADM Details

ADM details display the host/device properties for a single machine. The default view is the **ADM Discover > Inventory** page. From this page, you can view additional ADM details about the host/device.

1. When working in the Console, in machine-related data grids, select a row, and then click the **View ADM details** button. You can view only the details for a single machine. If you select more than one machine, an error message appears. Clear the multiple selections, select one machine, and then click **View ADM details** again.
2. On the first login of the session, the Application Discovery Manager **Login** page appears. Type the ADM administrator-provided **Username** and **Password**.
3. Click **Login**. The **ADM Host/Device Properties** page appears.
4. The **Host/Devices Properties** page displays the ADM-discovered information about the selected machine. You may also view the data provided on the other tabs. For more information about the ADM data, click **Help** on the ADM menu bar.

Viewing ADM Maps

ADM maps display the relationships between two or more host/devices. The devices include hosts (servers and clients), connections between hosts, connection details and protocols, and service details. The maps display the devices in the selected group and the protocols connecting them.

1. When working in the Console, in machine-related data grids, select two or more rows, and then click the **View ADM map** button.
2. On the first login of the session, the Application Discovery Manager **Login** page appears. Type the ADM administrator-provided **Username** and **Password**.
3. Click **Login**. The map page appears.
4. The map page displays the ADM-discovered relationships between the selected devices. To learn more about using the map view, select **Help > Documentation** on the menu bar.