Quick Start - Virtual Server iDataAgent (VMware)

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System Requirements - Virtual Server iDataAgent (VMware)

System Requirements Supported Features

The following requirements are for the Virtual Server *i*DataAgent:

VIRTUAL SERVER APPLICATION SOFTWARE

VMWARE ESX SERVER

VMware ESX/ ESXi 4.x, 5.0, 5.1

vSphere 4.x, 5.0, or 5.1

Before configuring Virtual Server iDataAgent for ESXi servers, consider the following:

- VADP is not available in the free version of ESXi and requires the Essentials licensing level or higher.
- Proxy computers must be running Windows Server 2008 or higher for ESX Server version 5.0 or 5.1.
- VDDK 5.0 is required for this version of ESX server. VDDK 5.0 update 1 is installed automatically with Service pack 6A or higher.

vSphere 5.5 and VDDK 5.5 are supported only in Calypso Version 10. If you need this support, CommVault recommends upgrading to Version 10. You can begin by upgrading the CommServe system, Virtual Server Agent, and MediaAgent, and upgrade the rest of the CommCell environment later.

VMWARE VCENTER SERVER APPLIANCE

VMware vCenter Server Appliance 5.0.0

VIRTUAL MACHINE HARDWARE

Version 4.0, 7.0, 8.0, 9.0

VIRTUAL MACHINE OPERATING SYSTEMS

All Guest Operating Systems supported by VADP and VCB

PROXY COMPUTER OPERATING SYSTEMS

Microsoft Windows Server 2012 R2 is not supported for Calypso Version 9.

Microsoft Windows Server 2012 x64 Editions Microsoft Windows Server 2008 32-bit and x64 Editions Microsoft Windows Server 2003 32-bit and x64 Editions with a minimum of Service Pack 1 Microsoft Windows 7 32-bit and x64 Editions Microsoft Windows Vista 32-bit and x64 Editions Microsoft Windows XP Professional 32-bit and x64 Editions

VM LIFECYCLE MANAGEMENT

The following conditions must be considered when utilizing VM Lifecycle Management:

- VMware vCenter 4.1 is required
- VMware Tools (version 8288) must be installed on templates
- Windows Server 2008, Windows 7, and Linux (RedHat5) are supported

HARD DRIVE

100 GB recommended.

If performing backups with the granular recovery option enabled, the location of the Job Results folder should contain additional space to accommodate at least 2 percent of the total amount of data being backed up.

MEMORY

1 GB RAM minimum required; 4 GB RAM recommended.

PROCESSOR

All Windows-compatible processors supported

PERIPHERALS

DVD-ROM drive

Network Interface Card

MISCELLANEOUS

ALLOCATION UNIT SIZE OF THE NTFS VOLUMES

The cluster size or the allocation unit size of an NTFS volume in a virtual machine must be multiple of 1024 bytes. You can set the cluster size before formatting a volume. The default cluster size is 4096 bytes.

.NET FRAMEWORK

.NET Framework 2.0 is automatically installed. Note that .NET Framework 2.0 can co-exist with other versions of this software.

MICROSOFT VISUAL C++

Microsoft Visual C++ 2008 Redistributable Package is automatically installed. Note that Visual C++ 2008 Redistributable Package can co-exist with other versions of this software.

NETWORK

TCP/IP Services configured on the computer.

NOTES ON VIRTUAL SERVER /DATAAGENT INSTALLATIONS FOR VMWARE

For VMware, the Virtual Server iDataAgent is installed on a proxy computer that can communicate with the host computer.

Ensure that the VDDK 5.1 is not installed on any host.

SUPPORT FOR VCB ENVIRONMENT

The following utilities must be installed prior to performing any backup operations in the VCB Environment using the Virtual Server *i*DataAgent (these packages can be obtained from the VMware web site):

- VMware Consolidated Backup (refer to the VMware customer support web site for support information for the VMware Consolidated Backup utility.)
 - o The Virtual Server iDataAgent supports all modes supported by the VMware Consolidated Backup utility.
 - Refer to the VMware customer support web site for support information for the VMware Consolidated Backup utility.
- VMware Converter 4.0.1(refer to the VMware customer support web site for support information for the VMware Converter utility.)
 - $\circ~$ Ensure that the guest operating systems are using the supported version of the VMware Converter.
 - o The vCenter Converter Standalone 4.0.1 package must be installed for Windows Vista and Windows Server 2008 environments.

Ensure that the latest version of VMware Consolidated Backup and that VMware Converter 4.0.1 are installed.

- Restores of entire virtual machines from ESX Server 4.0 to a prior version of ESX Server are not supported.
- Virtual machines from ESX Server 3.5 can be backed up through vcbmounter, but they are restored through vStorage.

DISCLAIMER

Minor revisions and/or service packs that are released by application and operating system vendors are supported by our software but may not be individually listed in our System Requirements. We will provide information on any known caveat for the revisions and/or service packs. In some cases, these revisions and/or service packs affect the working of our software. Changes to the behavior of our software resulting from an application or operating system revision/service pack may be beyond our control. The older releases of our software may not support the platforms supported in the current release. However, we will make every effort to correct the behavior in the current or future releases when necessary. Please contact your Software Provider for any problem with a specific application or operating system.

Additional considerations regarding minimum requirements and End of Life policies from application and operating system vendors are also applicable

Getting Started - VMware Deployment



The Virtual Server iDataAgent is used to protect VMware virtual machine data. Follow the steps given below to install the Virtual Server iDataAgent.

INSTALLATION

The software can be installed using one of the following methods:

METHOD 1: INTERACTIVE INSTALL

Use this procedure to install directly on proxy computer that can communicate with $\ensuremath{\mathsf{ESX}}$ Server.

METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

Use this procedure to install remotely on a proxy computer that can communicate with the ESX Server.

METHOD 1: INTERACTIVE INSTALL

- 1. Run **Setup.exe** from the **Software Installation Disc** on a proxy computer that can communicate with the ESX Server.
- 2. Select the required language.

Click Next.

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< Back Next > Cancel

I accept the terms in the license agreement.
 I do not accept the terms in the license agreement

Installer

3. Select the option to install software on this computer.

The options that appear on this screen depend on the computer in which the software is being installed.

4. Select I accept the terms in the license agreement. Click Next.

5. Expand Client Modules | Backup & Recovery | File System and select Virtual Server Agent.

BEFORE YOU BEGIN

Download Software Packages Download the latest software package to perform the install.

System Requirements

Verify that the computer in which you wish to install the software satisfies the System Requirements.

v

Click Next.

- 6. Click **YES** to install Microsoft .NET Framework package.
 - This prompt is displayed only when Microsoft .NET Framework is not installed.
 - Once the Microsoft .NET Framework is installed, the software automatically installs the Microsoft Visual J# 2.0 and Visual C++ redistributable packages.
- 7. If this computer and the CommServe is separated by a firewall, select the **Configure** firewall services option and then click Next.

For firewall options and configuration instructions, see Firewall Configuration and continue with the installation.

If firewall configuration is not required, click **Next**.

8.	Enter the fully qualified domain name of the CommServe Host Name.
	Click Next.

Do not use space and the following characters when specifying a new name for the CommServe Host Name:

\|`~!@#\$%^&*()+=<>/?,[]{}:;'"

9. Click Next.

10.	Select Add programs to the Windows Firewall Exclusion List, to add CommCell
	programs and services to the Windows Firewall Exclusion List.

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staller

Click Next.

This option enables CommCell operations across Windows firewall by adding CommCell programs and services to Windows firewall exclusion list.

It is recommended to select this option even if Windows firewall is disabled. This will allow the CommCell programs and services to function if the Windows firewall is enabled at a later time.

11. Verify the default location for software installation.

 $\label{eq:click} Click \ \textbf{Browse} \ to \ change \ the \ default \ location.$

Click Next.

- Do not install the software to a mapped network drive.
- Do not use the following characters when specifying the destination path:
 - /:*?"<>|#

It is recommended that you use alphanumeric characters only.

12. Select a Client Group from the list.

Click Next.

This screen will be displayed if Client Groups are configured in the CommCell Console.

13. Click Next.

14.	Click	Next
14.	Click	Next

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15. Select a Storage Policy. Click Next.

> If you do not have Storage Policy created, this message will be displayed. Click **Next**.

> > You can create the Storage Policy later in step 19.

16. Click Next.

17. Click Next.

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18. Click Finish.

19.



If you already have a storage policy selected in step 15, click the **Next** button available on the bottom of the page to proceed to the **Configuration** section. If you do not have Storage Policy created, continue with the following step.

To create a storage policy, you must have configured a library in the CommCell.

- If you do not already have a library configured, go to Disk Library Creation.
- If you have a library configured, go to Storage Policy Creation.

DISK LIBRARY CREATION:

- From the CommCell Console, click the Backup Target button on EZ Operations Wizard.
- 2. Click Disc Library (For backup to disc) and click Next.
- 3. Click Use Local Disk.

Type the name of the folder in which the disc library must be located in the **Enter backup destination folder** box or click the **Browse** button to select the folder.

Click Next.

If you click the **Use Network Share** option you will be prompted for the credentials (user name and password) to access the share.

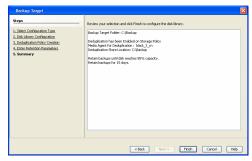
- 4. Click Next.
- 5. Click Finish.

This will create a library and Storage Policy. Click the Next > button available at the bottom of the page to continue.

STORAGE POLICY CREATION:

- 1. From the CommCell Browser, navigate to Policies.
- 2. Right-click the Storage Policies and then click New Storage Policy.
- 3. Follow the prompts displayed in the Storage Policy Wizard. The required options are mentioned below:
 - Select the Storage Policy type as Data Protection and Archiving and click Next.
 - $\circ~$ Enter the name in the Storage Policy Name box and click Next.
 - From the Library list, click the name of a disk library to which the primary copy should be associated and then click Next.

Ensure that you select a library attached to a MediaAgent operating in the



current release.

- From the MediaAgent list, click the name of a MediaAgent that will be used to create the primary copy and then click Next.
- $\circ\;$ For the device streams and the retention criteria information, click Next to accept default values.
- $\circ~$ Select Yes to enable deduplication for the primary copy.
- From the **MediaAgent** list, click the name of the MediaAgent that will be used to store the Deduplication store.

Type the name of the folder in which the deduplication database must be located in the Deduplication Store Location or click the Browse button to select the folder and then click **Next**.

 $\circ\;$ Review the details and click Finish to create the Storage Policy.

This will create a storage policy. Click the Next \blacktriangleright button available at the bottom of the page to continue.

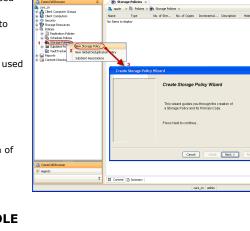
METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

1. From the CommCell Browser, select Tools | Add/Remove Software | Install Software.

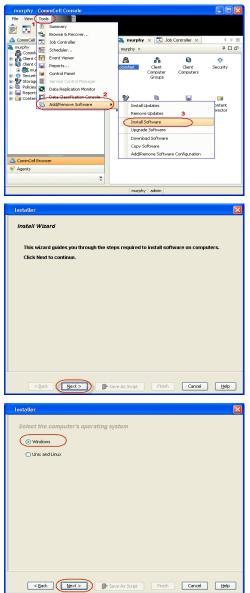
2. Click Next.

Select Windows.
 Click Next.

4. Select Manually Select Computers. Click Next.



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5. Enter the fully qualified domain name of the proxy computer that can communicate with the ESX Server.

For example: apple.domain.company.com

The Virtual Server iDataAgent will be installed on this proxy computer.

Click Next.

6. Click Next.

 Specify UserName and Password of the proxy computer. Click Next.

Installer
Select how to discover the computers for installing the software
Manualy select computers Software will be installed only on the selected list of computers.
Automatically discover computers
Computers will be discovered when the job runs.
< Back Next > Save As Script Finish Cancel Help
Installer
Enter the host names of the computers
Please enter the host names of the computers, one per line
apple.domain.company.com
Import From Active Directory
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< <u>Back</u> (<u>Next</u> >)
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8. Select Virtual Server Agent. Click Next. 9. Click Next.

10. Select Immediate. Click Next.

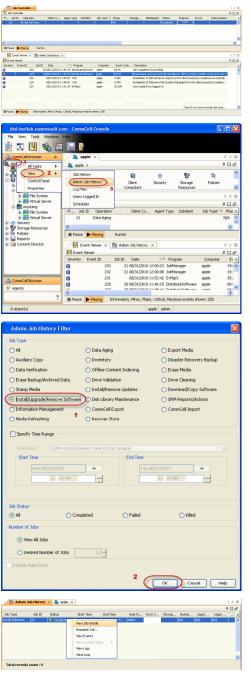
11. Click Finish.

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File System NDMP Restore Enabler
Image Level DataAgent Data Protection Manager
Witual Server Agent Database
D82 IDataAgent
Orade DataAgent Osulo Superiore DataAgent
SAP for Oracle
- Sybase iDataAgent
MySQL IDataAgent Documentum Agent
Cxchange Exchange Database DataAgent
Exchange Mailbox iDataAgent
Exchange Public Folder IDataAgent Exchange Web Folder IDataAgent
Exchange Offline Mining Tool
< Back Next > Save As Script Finish Cancel Help
Installer
Enter Additional Install Options
🐵 Installer Flags
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- 12. You can track the progress of the job from the **Job Controller** or **Event Viewer** window.
- **13.** Once the job is complete, right-click the **CommServe** computer, click **View** and then click **Admin Job History**.

14. Select Install/Upgrade/Remove Software. Click OK.

- **15.** You can view the following details about the job by right-clicking the job:
 - Items that succeeded during the job
 - Items that failed during the job
 - Details of the job
 - Events of the job
 - Log files of the job



Getting Started - VMware Configuration

< Previous Next >

CONFIGURATION

1.

Once the Virtual Server *i*DataAgent has been installed, configure an Instance, a Backup Set and a Subclient to facilitate backups. The following sections provide the necessary steps required to create and configure these components for a first backup of a Virtual Center.

- From the CommCell Browser, navigate to *Client* | **Virtual Server**.
 - Right-click the Virtual Server | All Tasks and click Create New Instance.

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Vendor Type: VMWare VMWare © vCenter	~
Host name sogo24.domain.compan	y.com
User Account vsauser	Change Configure ESX Servers
Register vCenter plugin	OK Cancel Help

- Enter the **Instance Name**.
 - Select VMware from Vendor Type menu.

- **3.** Click Virtual Center.
 - Click Configure Password.
 - Enter the username and password associated with the Virtual Center.
 - Ensure that the **Host name** is a fully qualified domain name.

4. Click **OK** to save the instance.

- 5.
- From the CommCell Browser, right-click the Default Backup Set.
 - Click Properties.

- 6. Ensure the Automatically add new VMs that do not qualify for membership in any of the subclients is selected.
 - Click OK.

Click **Discover** on the **Guest Hosts Configuration** tab.
 The discovery process might take several minutes to complete.

Virtual Server Instance Property	
General	
Client Name: xen-vm2_cn	
iDataAgent: Virtual Server	
Instance Name:	
Vendor Type:	~
	OK Cancel Help
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- 8. Select a virtual machine to back up from the **Virtual Machine** column.
 - Select the **Default Subclient** from the **Subclient** column for the virtual machine you want to back up.

- Click Apply.
- Click OK.

- From the CommCell Browser, navigate to the Default Subclient.
 - Click **Properties**.

9.

- **10.** Select **Disk-Level** from the **Backup Type** space.
 - Select a proxy computer from the **Use Proxy** menu.

- Backup Set Property of defaultBackupS General Guest Hosts Configuration Security ESX Server Virtual Machine Subclient Name × small datavalidation SRM_SMALLVM_Datavalidation small_datavalidation -srm Discover Change all selected guest host to Apply Help default Do Not Backup 🛕 CommCell Br 📅 defaultBackupSet 🗙 What's new? 🗙 ф appe Big Committet Clent Computer Groups Clent Computers Clent Compute 🚵 apple > 🔞 Client Computers > 🚉 mustang > 🖬 Virtue Subclient N Backup Browse Backup Data List Media Find Backup History Security Storage Resources Policies Schedules Content ř 🗔 Job C Operation Window - 📊 Reports - 🧊 Content Director Job Contro Fl... Job ID Properties 2 Operation Client Co... Agent Type Subdiv There are no jobs currently running. Subclient Properties of default Security Storage Device Activity Control General Filters Content Pre/Post Process Client Name: mustang Billing Department: Not Defined/Not Defined iDataAgent: Virtual Serve Backup Set: defaultBackupSet Subclient name: default Number of Data Readers: 1 ÷ Note: This is a default subclient Backup Type O Disk Level O Volume Level O File Level (Use Proxy) ~ Transport Mode for VMWare Auto ~ Description
- Click the **Storage Device** tab. Ensure that a Storage Policy is selected.
 - Click OK.

11.

If you do not have Storage Policy created, continue with $\ensuremath{\textbf{Step 12}}$.

OK Cancel Help

General Filters		Pre/Post Process	
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- 12. To create a storage policy, you must have configured a library in the CommCell.
 - If you do not already have a library configured, go to Disk Library Creation.
 - If you have a library configured, go to Storage Policy Creation.

DISK LIBRARY CREATION:

- 1. From the CommCell Console, click the **Backup Target** button on **EZ Operations Wizard**.
- 2. Click Disc Library (For backup to disc) and click Next.
- 3. Click Use Local Disk.

Type the name of the folder in which the disc library must be located in the **Enter backup destination folder** box or click the **Browse** button to select the folder.

Click Next.

If you click the **Use Network Share** option you will be prompted for the credentials (user name and password) to access the share.

- 4. Click Next.
- 5. Click Finish.

This will create a library and Storage Policy. Click the Next > button available at the bottom of the page to continue.

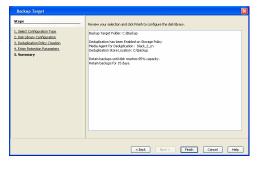
STORAGE POLICY CREATION:

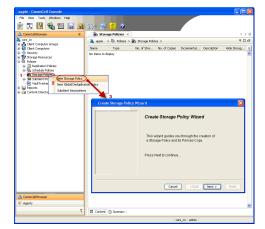
- 1. From the CommCell Browser, navigate to Policies.
- 2. Right-click the Storage Policies and then click New Storage Policy.
- 3. Follow the prompts displayed in the Storage Policy Wizard. The required options are mentioned below:
 - Select the Storage Policy type as Data Protection and Archiving and click Next.
 - $\circ~$ Enter the name in the Storage Policy Name box and click Next.
 - From the **Library** list, click the name of a disk library to which the primary copy should be associated and then click **Next**.

Ensure that you select a library attached to a MediaAgent operating in the current release.

- From the MediaAgent list, click the name of a MediaAgent that will be used to create the primary copy and then click Next.
- For the device streams and the retention criteria information, click Next to accept default values.
- Select **Yes** to enable deduplication for the primary copy.
- From the **MediaAgent** list, click the name of the MediaAgent that will be used to store the Deduplication store.

Type the name of the folder in which the deduplication database must be located in the Deduplication Store Location or click the Browse button to





- select the folder and then click Next.
- $\circ~$ Review the details and click Finish to create the Storage Policy.

This will create a storage policy. Click the Next \succ button available at the bottom of the page to continue.

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Getting Started - VMware Backup

< Previous) Next >

PERFORM A BACKUP

After configuring your Instance, Backup Set and Subclient, you are ready to perform your first backup.

WHAT GETS BACKED UP

The Virtual Server iDataAgent backs up the following:

- Windows Virtual Machines
- Linux Virtual Machines
- Stand-alone ESXI with standard license level
- Volumes
- Files/folders
- Virtual RDMs

WHAT DOES NOT GET BACKED UP

The Virtual Server iDataAgent does not back up the following:

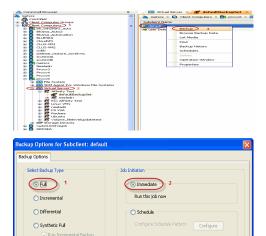
- Virtual machines containing:
 - $\circ~$ SCSI bus sharing set to <code>virtual</code>

Fault Tolerance

- GPT or dynamic disk volumes (only disk and file level backups are supported, volume level backups are not supported).
- Hard links
- VMDKs in the same location with same names, where only case is different.
- Physical RDMs
- Independent Disks

The following section provides step-by-step instructions for running your first full backup of a single virtual machine immediately.

- 1. From the CommCell Console, navigate to Client Computers | Virtual Server.
 - Right-click the **Subclient** and click **Backup**.



3 Cancel Advanced 😰 Save As Script Help

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- Select Full as backup type and Immediate to run the job immediately.
 - Click OK.

 You can track the progress of the job from the Job Controller window of the CommCell console.

- Once job is complete, view the details of job from the Backup History.
 Right-click the Subclient and select Backup History.
- 5. Click OK.

- 6. You can view the following details about the job by right-clicking the job:
 - Items that failed during the job
 - Items that succeeded during the job
 - Details of the job
 - Events of the job
 - Log files of the job
 - Media associated with the job

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Getting Started - VMware Restore

PERFORM A RESTORE

It is recommended that you perform a restore operation immediately after your first full backup to understand the process.

The following sections describe the steps involved in restoring a virtual machine to a different Virtual Center/ESX Server.

- **1.** From the CommCell Console, navigate to the **<Client>** | **Virtual Server**.
 - Right-click the subclient that contains the data you want to restore, point to **Browse Backup Data**.



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2. Click OK.

3.

- Select the virtual machine under the backup set. Its entire contents will be automatically selected in the right pane.
 - Click Recover All Selected.
- 4. Select the **Destination ESX Server** to which the virtual machine will be restored.

5. Select the **Datastore** to which the disk will be restored.

If the selected datastore does not meet the minimum requirements needed to restore the virtual machine, you can repeat this step until an acceptable datastore is found.

6. Enter the **VM Name** for the virtual machine.

Ensure that you provide a fully qualified name for the virtual machine. Entering an IP address will cause the restore operation to fail.

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- 7. Click the Job Initiation tab.
 - Select Immediate to run the job immediately.
 - Click OK.

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8. You can monitor the progress of the restore job in the **Job Controller** or **Event Viewer** window of the CommCell Console.

9. Once the restore job has completed, right-click the entity (e.g. agent, instance) and click **View** | **Restore History**.

If the entity chosen is the client computer, click **View** | **Job History**.

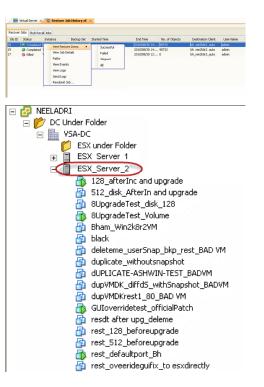
10. Click OK.

11. You can view the following details about the job by right-clicking the job:

View Restore Items

You can view them as **Successful**, **Failed**, **Skipped** or **All**.

- View Job Details
- View Events of the restore job.
- View Log files of the restore job.
- **12.** Once the virtual machine is restored, it is automatically mounted to the virtual center/ESX Server you selected.



CONGRATULATIONS - YOU HAVE SUCCESSFULLY COMPLETED YOUR FIRST BACKUP AND RESTORE.

If you want to further explore this Agent's features read the **Advanced** sections of this documentation.

< Previous Next >

Quick Start Guide - Virtual Server iDataAgent (VMware)