Quick Start - Unix File Archiver Agent

TABLE OF CONTENTS

OVERVIEW

Introduction

Key Features Recall Throttling Point in Time Restore Stub Pruning

Terminology

SYSTEM REQUIREMENTS

DEPLOYMENT

Installation

Method 1: Interactive Install

Method 2: Install Software from CommCell Console

GETTING STARTED - UNIX FILE ARCHIVER AGENT CONFIGURATION

GETTING STARTED - UNIX FILE ARCHIVER AGENT MIGRATION ARCHIVING

Perform An Archive What Gets Archived What Does Not Get Archived

GETTING STARTED - UNIX FILE ARCHIVER AGENT RECOVER DATA

Perform A Data Recovery

Overview - Unix File Archiver Agent

TABLE OF CONTENTS

Introduction Key Features Terminology

INTRODUCTION

File Archiver for Unix Agent is installed as a stand alone archiving agent, and is not dependent on the Unix File System iDataAgent.

The Archived data allows preservation, transparent retrieval, and discovery of information held within file system environment. It reduces the size of data on the primary storage and decreases the duration of backup operations by the corresponding iDataAgent. Migrating data from file systems to secondary, tiered-storage maximizes storage utilization across the enterprise.

The File Archiver for Unix can optionally create stubs that contain information about the archived data to facilitate end-users with non-browse recovery operations from third-party applications. Migrated data can also be recovered from the CommCell Console using the browse recovery operation whether the stubbing feature is enabled or disabled. Additionally, it employs centralized, policy-based storage to reduce costs and simplify management.

KEY FEATURES

The Unix File Archiver involves the following key features:

RECALL THROTTLING

You can configure the stub recovery parameters, such that, you can set the Maximum Number of Stubs in a Recall Job, Time between recalls and Time to wait after maximum successive recalls limit is reached.

POINT IN TIME RESTORE

You can restore the system state of a client, backed up on a specific date and time.

STUB PRUNING

In the archive phase, File Archiver for Unix will archive files meeting the pre-set archive criteria and, if applicable, put them into a list for the stubbing phase and prune the expired stubs. This helps in secondary storage space reclamation.

TERMINOLOGY

The Unix File Archiver documentation uses the following terminology:

MIGRATION ARCHIVING	Migration archiving is a process of periodically moving unused or infrequently used Unix File System data on a host computer to secondary storage, thereby reducing the size of data on the primary storage.
STUBBING	The stubbing phase starts after the archive phase succeeds. Stubs are placeholders of the original data after it has been migrated to the secondary storage. Stubs replace the archived files in the location selected by the user during the archive. However, stubs will only be created if the subclient properties were configured to create them during archive.
DATA RECOVERY	 The archived and migrated data can be recovered in any of the following three methods: Recovery of archived files per file paths provided using the CommCell Console.
	 Browse and Recovery of archived files using the CommCell Console. Recall of archived files from stubs using third-party applications like: Unix Terminal or Console window.
STUB RECOVERY	If the subclient is configured to create stubs, you can perform a recall operation from a Unix workstation for recovering the stubs. A recall is any action that causes an open and read to be executed on the stub, which automatically initiates a recovery operation.

System Requirements - File Archiver for Unix Agent

System Requirements Supported Features Supported File Systems

The following requirements are for the File Archiver for Unix Agent and Add-On Archiver Agent:

OPERATING SYSTEM		PROCESSOR		
AIX	AIX 7.1	Power PC (Includes IBM System p)		
	AIX 6.1 64-bit	Power PC (Includes IBM System p)		
	AIX 5.3 32-bit and 64-bit with technology level 7 (or higher) and runtime library xlC.rte 8.0.0.0 or higher	Power PC (Includes IBM System p)		
	Note that all AIX platforms support Logical Partitions (LPAR).			
HP-UX	HP-UX 11.31 64-bit	Itanium		
	HP-UX 11.31 64-bit	PA-RISC		
	HP-UX 11.23 64-bit	PA-RISC		
	HP-UX 11.23 64-bit	Itanium		
LINUX	CENTOS			
	CentOS 5.4 with kernel 2.6.18-164	Intel Pentium or compatible minimum required		
	CentOS 5.3 with kernel 2.6.18-128	Intel Pentium or compatible minimum required		
	DEBIAN			
	Debian 5.x with kernel 2.6.26-2	Intel Pentium or compatible minimum required		
	Debian 5.x with kernel 2.6.26.19-2	x64		
	OES LINUX			
	Novell OES2 Linux up to SP2 (SLES 10 SP2) 64-bit	x64		
	In order to perform a stub recall from Linux OES NSS volumes, Linux OES File System iDataAgent must be installed.			
	Novell OES2 Linux up to SP2 (SLES 10 SP2) 32-bit	Intel Pentium or compatible minimum required		
	RED HAT ENTERPRISE LINUX			
	Red Hat Enterprise Linux AS 4.9 with kernel 2.6.9-100 (Update 9)	Intel Pentium or compatible minimum required		
	Red Hat Enterprise Linux AS 4.9 with kernel 2.6.9-100 (Update 9)	x64		
	Red Hat Enterprise Linux AS 4.0 with kernel 2.6.9-89 (Update 8)	x64		
	Red Hat Enterprise Linux AS 4.0 with kernel 2.6.9-89 (Update 8)	Intel Pentium or compatible minimum required		
	Red Hat Enterprise Linux AS 4.0 with kernel 2.6.9-78 (Update 7)	Intel Pentium or compatible minimum required		
	Red Hat Enterprise Linux AS 4.0 with kernel 2.6.9-78 (Update 7)	x64		
	Red Hat Enterprise Linux AS 4.0 with kernel 2.6.9-67 (Update 6)	x64		
	Red Hat Enterprise Linux AS 4.0 with kernel 2.6.9-67 (Update 6)	Intel Pentium or compatible minimum required		
	Red Hat Enterprise Linux AS 4.0 with kernel 2.6.9-55 (Update 5)	Intel Pentium or compatible minimum required		
	Red Hat Enterprise Linux AS 4.0 with kernel 2.6.9-55 (Update 5)	x64		
	Red Hat Enterprise Linux AS 4.0 with kernel 2.6.9-42 (Update 4)	x64		
	Red Hat Enterprise Linux AS 4.0 with kernel 2.6.9-42 (Update 4)	Intel Pentium or compatible minimum required		
	Red Hat Enterprise Linux AS 4.0 with kernel 2.6.9-34 (Update 3)	Intel Pentium or compatible minimum required		
	Red Hat Enterprise Linux AS 4.0 with kernel 2.6.9-34 (Update 3)	x64		
	Red Hat Enterprise Linux 6 Advanced Platform with kernel 2.6.32-71	Intel Pentium or compatible minimum required		

	Red Hat Enterprise Linux 6 Advanced Platform with kernel 2.6.32-71	x64
	Red Hat Enterprise Linux 6 Advanced Platform with kernel 2.6.32-131 (Update 1)	x64
	Red Hat Enterprise Linux 5 Advanced Platform with kernel 2.6.18-92 (Update 2)	Intel Pentium or compatible minimum required
	Red Hat Enterprise Linux 5 Advanced Platform with kernel 2.6.18-92 (Update 2)	x64
	Red Hat Enterprise Linux 5 Advanced Platform with kernel 2.6.18-8	Intel Pentium or compatible minimum required
	Red Hat Enterprise Linux 5 Advanced Platform with kernel 2.6.18-8	x64
	Red Hat Enterprise Linux 5 Advanced Platform with kernel 2.6.18-53 (Update 1)	x64
	Red Hat Enterprise Linux 5 Advanced Platform with kernel 2.6.18-53 (Update 1)	Intel Pentium or compatible minimum required
	Red Hat Enterprise Linux 5 Advanced Platform with kernel 2.6.18-238 (Update 6)	Intel Pentium or compatible minimum required
	Red Hat Enterprise Linux 5 Advanced Platform with kernel 2.6.18-238 (Update 6)	x64
	Red Hat Enterprise Linux 5 Advanced Platform with kernel 2.6.18-194 (Update 5)	Intel Pentium or compatible minimum required
	Red Hat Enterprise Linux 5 Advanced Platform with kernel 2.6.18-194 (Update 5)	x64
	Red Hat Enterprise Linux 5 Advanced Platform with kernel 2.6.18-164 (Update 4)	Intel Pentium or compatible minimum required
	Red Hat Enterprise Linux 5 Advanced Platform with kernel 2.6.18-164 (Update 4)	x64
	Red Hat Enterprise Linux 5 Advanced Platform with kernel 2.6.18-128 (Update 3)	x64
	Red Hat Enterprise Linux 5 Advanced Platform with kernel 2.6.18-128 (Update 3)	Intel Pentium or compatible minimum required
	SUSE LINUX (SLES)	
	SuSE Linux 11 Enterprise Server with kernel 2.6.32.12-0.7 (Update 1)	Intel Pentium or compatible processors
	SuSE Linux 11 Enterprise Server with kernel 2.6.32.12-0.7 (Update 1)	x64
	SuSE Linux 11 Enterprise Server with kernel 2.6.27.19-5	x64
	SuSE Linux 11 Enterprise Server with kernel 2.6.27.19-5	Intel Pentium or compatible processors
	SuSE Linux 10 Enterprise Server with kernel 2.6.16.60-0.54.5 (Update 3)	Intel Pentium or compatible processors
	SuSE Linux 10 Enterprise Server with kernel 2.6.16.60-0.54 (Update 3)	Intel Pentium or compatible processors
	SuSE Linux 10 Enterprise Server with kernel 2.6.16.60-0.34 (Update 2)	Intel Pentium or compatible processors
	SuSE Linux 10 Enterprise Server with kernel 2.6.16.60-0.21 (Update 2)	Intel Pentium or compatible processors
	SuSE Linux 10 Enterprise Server with kernel 2.6.16.60-0.21 (Update 2)	x64
	SuSE Linux 10 Enterprise Server with kernel 2.6.16.46-0.12 (Update 1)	Intel Pentium or compatible processors
SOLARIS	Solaris 9 64-bit with Service Packs 111711-02 and 111712-02	Ultra2 or higher recommended
	Solaris 9 4/04 64-bit	Ultra2 or higher recommended
	Solaris 10.x with a minimum of SunOS (Sparc) Patch 119963-14	Ultra2 or higher recommended
	Solaris 10.x (6/06 and higher) 64 bit	Ultra2 or higher recommended

CLUSTER - SUPPORT

The software can be installed on a Cluster if clustering is supported by the above-mentioned operating systems.

For information on supported cluster types, see Clustering - Support.

HARD DRIVE

250 MB minimum of hard disk space for software50 MB of additional hard disk space for log file growth719 MB of temp space required for install (where the temp folder resides)3.5 KB per file of cache partition

MEMORY

256 MB RAM or higher recommended total system memory

SOLARIS ZONES/CONTAINERS SUPPORT

The File Archiver Agent should be installed on the global zone, and cannot be installed on a non-global zone. The global instance of the File Archiver Agent can be used to archive data on a non-global zone. For a comprehensive list of supported components, see Unix Virtualization.

AIX LPAR/WPAR SUPPORT

Data protection on Logical Partitioning (LPAR) and Workload Partitioning (WPAR) is supported.

PERIPHERALS

DVD-ROM drive

Network Interface Card

MISCELLANEOUS

NETWORK

TCP/IP Services configured on the computer. On Solaris computers, the operating system must have been installed with at least the user level software option selected.

LUSTRE FILE SYSTEM

Lustre File System version 2.0.0.1 is supported on Red Hat Enterprise Linux 5.x computers with kernel 2.6.18-164.

SELINUX

If you have SELinux enabled on the client computer, create the SELinux policy module as a root user before performing a backup. The SELinux Development package must be installed on the client.

To create an SELinux policy module, perform the following steps as user "root":

1. Create the following files in the <code>/usr/share/selinux/devel</code> directory:

File Name	Content of the File	
<directory>/<file_name>.te</file_name></directory>	The content of the file should be as follows:	
where:	policy_module(<name>,<version>)</version></name>	
<directory> is /usr/share/selinux/devel</directory>	#######################################	
<file_name> is the name of the Unix file, created to save the</file_name>	where:	
policy module statement. It is a good idea to use the same name for policy module and the file.	$<_{name>}$ is the name of the policy module. You can give any unique name to the policy module, such as a process or application name.	
For example: When you are creating a policy module for backup_IDA application, you can use the following file name:	<pre><version> is the version of the policy module. It can be any number, such as 1.0.0.</version></pre>	
backup_IDA.te	For Example: While creating a policy module for the backup_IDA application, you can use the following content.	
	policy_module(backup_IDA,1.0.0)	
<directory>/<file_name>.fc</file_name></directory>	The content of the file should be as follows:	
where:	Note that the following list of files is not exhaustive. If the process fails to launch,	
<pre><directory> is /usr/share/selinux/devel</directory></pre>	Check /var/log/messages. Also, if required, add it to the following list of files.	
<file_name> is the name of the Unix file, created to save the</file_name>	<pre>/opt/<software directory="" installation="">/Base/libCTreeWrapper.so gen_context (system_u:object_r:texrel_shlib_t,s0)</software></pre>	
policy module statement. It is a good idea to use the same	/opt/ <software directory="" installation="">/Base/libCVMAGuiImplgso gen_context</software>	

name for policy module and the file.	(system_u:object_r:texrel_shlib_t,s0)
For example: When you are creating a policy module for backup_IDA application, you can use the following file name:	<pre>/opt/<software directory="" installation="">/Base/libdb2locale.so.1 gen_context (system_u:object_r:texrel_shlib_t,s0)</software></pre>
backup_IDA.fc	<pre>/opt/<software directory="" installation="">/Base/libdb2osse.so.1 gen_context (system_u:object_r:texrel_shlib_t,s0)</software></pre>
	<pre>/opt/<software directory="" installation="">/Base/libDb2Sbt.so gen_context (system_u:object_r:texrel_shlib_t,s0)</software></pre>
	<pre>/opt/<software directory="" installation="">/Base/libdb2trcapi.so.1 gen_context (system_u:object_r:texrel_shlib_t,s0)</software></pre>
	<pre>/opt/<software directory="" installation="">/Base/libDrDatabase.so gen_context (system_u:object_r:texrel_shlib_t,s0)</software></pre>
	<pre>/opt/<software directory="" installation="">/Base/libIndexing.so gen_context (system_u:object_r:texrel_shlib_t,s0)</software></pre>
	<pre>/opt/<software directory="" installation="">/Base/libSnooper.so gen_context (system_u:object_r:texrel_shlib_t,s0)</software></pre>

2. Create the policy file from command line. Use the following command. Ensure that you give the following commands in the /usr/share/selinux/devel directory.

[root] # make backup_IDA.pp

Compiling targeted backup_IDA module

/usr/bin/checkmodule: loading policy configuration from tmp/backup_IDA.tmp

/usr/bin/checkmodule: policy configuration loaded

/usr/bin/checkmodule: writing binary representation (version 6) to tmp/backup_IDA.mod

Creating targeted backup_IDA.pp policy package

rm tmp/backup IDA.mod tmp/backup IDA.mod.fc

[root]# semodule -i backup_IDA.pp

[root]#

3. Execute the policy module. Use the following command:

[root] # restorecon -R /opt/<software installation directory>

SELinux is now configured to work with this application.

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 - File Archiver Deployment



WHERE TO INSTALL

The Unix File Archiver Agent is used to archive Unix machine data

Install the software directly on the computer hosting the global zone or the Unix Server that you wish to protect. Make sure the computer satisfies the minimum requirements specified in the System Requirements.

The global instance of the File Archiver Agent can be used to archive and restore/recall data on a non-global zone.

Follow the steps given below to install the Unix File Archiver Agent.

INSTALLATION

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

METHOD 1: INTERACTIVE INSTALL

Use this procedure to install the software directly on client computer.

METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

Use this procedure to remotely install the software on a client computer.

METHOD 1: INTERACTIVE INSTALL

- 1. Run the following command from the Software Installation Disc: ./cvpkgadd
- The product banner and other information is displayed. Press Enter.
- 3. Read the license agreement. Type y and press Enter.
- 4. Press Enter.

5. Press Enter.

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.

Please select a setup task you want to perform from the list below:

Advance options provide extra setup features such as creating custom package, recording/replaying user selections and installing External Data Connector software.

1) Install data protection agents on this computer

- 2) Advance options
- 3) Exit this menu

Your choice: [1]

Certain Calypso packages can be associated with a virtual IP, or in other words, installed on a "virtual machine" belonging to some cluster. At any given time the virtual machine's services and IP address are active on only one of the cluster's servers. The virtual machine can "failover" from one server to another, which includes stopping services and deactivating IP address on the first server and activating the IP address/services on the other server.

You now have a choice of performing a regular Calypso install on the physical host or installing Calypso on a virtual machine for operation within a cluster.

Most users should select "Install on a physical machine" here.

1) Install on a physical machine

2) Install on a virtual machine

3) Exit

Your choice: [1]

6. If you have only one network interface, press **Enter** to accept the default network interface name and continue.

If you have multiple network interfaces, enter the interface name that you wish to use as default, and then press **Enter**.

The interface names and IP addresses depend on the computer in which the software is installed and may be different from the example shown. We found one network interface available on your machine. We will associate it with the physical machine being installed, and it will also be used by the CommServe to connect to the physical machine. Note that you will be able to additionally customize Datapipe Interface Pairs used for the backup data traffic later in the Calypso Java GUI.

Please check the interface name below, and make

- 7. Press Enter.
- Type the appropriate number to install File Archiver for UNIX Agent.
 A confirmation screen will mark your choice with an "X".
 Type d for Done, and press Enter.

9. Press Enter.

- **10.** Type the appropriate number to install the latest software scripts and press **Enter**.
 - Select **Download from the software provider website** to download the latest software scripts. Make sure you have internet access.
 - Select **Use the one in the installation media** to install the software scripts from the package or share from which the installation is currently being performed.
 - Select Use the copy I already have by entering its unix path, to specify the path if you have the software script in an alternate location.
- 11. Press Enter.

- **12.** Press **Enter** to accept the default path.
 - If you want to specify a different path, type the path and then press **Enter**.
 - If you want to install the software binaries to an NFS shared drive, specify the directory on which you have mounted the NFS file system and then press **Enter**.

In order to make sure that the client computer has ${\tt read/write}$ access to NFS shared drive, review the steps described in Installing Software Binaries to an NFS Shared Drive.

Do not use the following characters when specifying the path:

!@#\$%^&*():/?\

- **13.** Press **Enter** to accept the default location.
 - Enter a path to modify the default location and press **Enter**.
 - All the modules installed on the computer will store the log files in this directory.
- 14. Type no.

If entering Yes, go to Step 16.

connections if necessary:

Physical Machine Host Name: [angel.company.com]

Please specify the client name for this machine.

It does not have to be the network host name: you can enter any word here without spaces. The only requirement is that it must be unique on the CommServe.

Physical Machine Client name: [angel]

Install Calypso on physical machine angel

Please select the Calypso module(s) that you would like to install.

[] 1) MediaAgent [1301] [CVGxMA]

[] 2) UNIX File System iDataAgent [1101] [CVGxIDA]

[a=all n=none r=reverse q=quit d=done >=next <=previous ?
=help]</pre>

Enter number(s)/one of "a,n,r,q,d,>,<,?" here:2</pre>

Do you want to use the agents for restore only without consuming licenses? [no]

Installation Scripts Pack provides extra functions and latest support and fix performed during setup time. Please specify how you want to get this pack.

If you choose to download it from the website now, please make sure you have internet connectivity at this time. This process may take some time depending on the internet connectivity.

1) Download from the software provider website.

2) Use the one in the installation media

3) Use the copy I already have by entering its unix path

Your choice: [1] 2

Keep Your Install Up to Date - Latest Service Pack

Latest Service Pack provides extra functions and latest support and fix for the packages you are going to install. You can download the latest service pack from software provider website.

If you decide to download it from the website now, please make sure you have internet connectivity at this time. This process may take some time depending on the internet connectivity.

Do you want to download the latest service pack now? [no]

Please specify where you want us to install Calypso binaries.

It must be a local directory and there should be at least 176MB of free space available. All files will be installed in a "calypso" subdirectory, so if you enter "/opt", the files will actually be placed into "/opt/calypso".

Installation Directory: [/opt]

Please specify where you want to keep Calypso log files.

It must be a local directory and there should be at least 100MB of free space available. All log files will be created in a "calypso/Log_Files" subdirectory, so if you enter "/var/log", the logs will actually be placed into "/var/log/calypso/Log_Files".

Log Directory: [/var/log]

Most of Software processes run with root privileges, but some are launched by databases and inherit database access rights. To make sure that registry and log files can be written to by both kinds of processes we can either make such files world-writeable or we can grant write access only to processes belonging to a particular group, e.g. a "calypso" or a "dba" group.

We highly recommend now that you create a new user group and enter its name in the next setup screen. If you choose not to assign a dedicated group to Software processes, you will need to specify the access permissions later.

If you're planning to backup Oracle DB you should use "dba" group.

be used to launch processes.

aroup.

Enter the group name and then press Enter.

15. Type d for done.

16

17.

Enter.

press Enter.

Would you like to assign a specific group to Software? [yes]

Access Permissions for Other Users

Installer will assign full access rights to root user and its belonging group for all installed Software files and its processes.

For any other users, you can specify the access permissions now.

However, since you chose not to assign a dedicated group in previous step, make sure you specify sufficient access rights for other users if you are also planning to install Software agents involving third party

software protection.

[X] 1) Allow read permission to other users[X] 2) Allow write permission to other users

[X] 3) Allow execute permission to other users

[a=all n=none r=reverse q=quit d=done >=next <=previous ?
=help]</pre>

Enter number(s)/one of "a,n,r,q,d,>,<,?" here:

Please enter the name of the group which will be assigned to all Software files and on behalf of which all Software processes will run.

In most of the cases it's a good idea to create a dedicated "calypso" group. However, if you're planning to use Oracle iDataAgent or SAP Agent, you should enter Oracle's "dba" group here.

Group name: skyl

REMINDER

If you are planning to install Calypso Informix, DB2, PostgreSQL, Sybase or Lotus Notes iDataAgent, please make sure to include Informix, DB2, etc. users into group "skyl".

Press <ENTER> to continue ...

Every instance of Calypso should use a unique set of network ports to avoid interfering with other instances running on the same machine.

The port numbers selected must be from the reserved port number range and have not been registered by another application on this machine.

Please enter the port numbers.

Port Number for CVD : [8400]

Port Number for EvMgrC: [8402]

Is there a firewall between this client and the CommServe? [no]

18. If you do not wish to configure the firewall services, press **Enter**.

If this computer is separated from the CommServe by firewall(s), type ${\bf Yes}$ and then press ${\bf Enter}.$

If you indicated **Yes** in Step 14., you will be prompted for the group name that must

See your Unix systems administrator for assistance in creating a user

Type a network TCP port number for the Communications Service (CVD) and press

Type a network TCP port number for the Client Event Manager Service (EvMgrC) and

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

19. Type the fully qualified CommServe host name and press **Enter**.

Ensure that the CommServe is accessible before typing the name; otherwise the installation will fail.

20. Press Enter.

Please specify hostname of the CommServe below. Make sure the hostname is fully qualified, resolvable by the name services configured on this machine.

CommServe Host Name: mycommserve.company.com

Commcell Level Global Filters are set through Calypso GUI's Control Panel in order to filter out certain directories or files from backup Commcell-widely. If you turn on the Global filters, they will be effective to the default subclient. There are three options you can choose to set the filters.

1) Use Cell level policy

2) Always use Global filters

3) Do not use Global filters

Please select how to set the Global Filters for the default subclient? $\left[1\right]$

Client Group(s) is currently configured on CommServe mycommserve.company.com. Please choose the group(s) that you want to add this client angel.company.com to. The selected group(s) will be marked (X) and can be deselected if you enter the same number again. After you are finished with the selection, select "Done with the Selection".

[] 1) Unix

21. Type the appropriate number to select the **Client Group** and press **Enter**.

This screen will be displayed only if Client Groups are configured for the $\operatorname{CommCell}$

22.

24.

Enter the number corresponding to the storage policy through which you want to back Please select one storage policy for this IDA from the up the External Data Connector and press Enter.

If you do not have Storage Policy created, this message will be displayed.

You can create the Storage Policy later in step 24.

23. Type 3 to the Exit option and press Enter.

You may not be prompted for user input.

The installation is now complete.

[] 2) DR

[a=all n=none r=reverse q=quit d=done >=next <=previous ?
=help]s</pre>

Enter number(s)/one of "a,n,r,q,d,>,<,?" here: 2</pre>

list below:

1) SP StandAloneLibrary2 2

2) SP Library3 3

3) SP_MagLibrary4_4

Storage Policy: [1]

There seem to be no Storage Policies configured on the CommServe. Before you can run any backups of this IDA, you will need to install a MediaAgent, create a Storage Policy and assign it to all subclients ..

Adjusting modes and permissions of files

Successfully installed Calypso

Certain Calypso packages can be associated with a virtual IP, or in other words, installed on a "virtual machine" belonging to some cluster. At any given time the virtual machine's services and IP address are active on only one of the cluster's servers. The virtual machine can "failover" from one server to another, which includes stopping services and deactivating IP address on the first server and activating the IP address/services on the other server.

Currently you have Calypso installed on physical node angel.company.com.

Now you have a choice of either adding another package to the existing installation or configure Calypso on a virtual machine for use in a cluster.

1) Add another package to angel.company.com

2) Install Calvoso on a virtual machine

3) Exit

Your choice: [3]

If you already have a storage policy selected in step 22, 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, follow the procedure given below.

- 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:
 - o Select the Storage Policy type as Data Protection and Archiving and click Next.
 - Enter the name in the Storage Policy Name box and click Next.
 - $\circ~$ From the ${\bf Library}$ 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

- o 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.
- 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.

• Review the details and click **Finish** to create the Storage Policy.

METHOD 2: INSTALL SOFTWARE FROM COMMCELL CONSOLE

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



2. Click Next.

3. Select Unix and Linux. Click Next.

4. Select Manually Select Computers. Click Next.

murphy - CommCell Console	
File View Tools 7	
CommCell	🐞 murphy × 💽 Job Controller × 🛛 4 🕨 🗉
Commit Scheduler	murphy > P I I I
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5. Enter the fully qualified domain name of the computer in which you wish to install. For example: apple.domain.company.com

The **File Archiver for UNIX Agent** will be installed on this client computer. Click **Next**. 6. Click Next.

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8. Select File Archiver for UNIX Agent. Click Next.

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- Select Client Group from Available and click Add.
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 - Select a **Storage Policy** from the drop-down list. Click **Next**.

10. Click Next.

11. Select Immediate. Click Next.

12. Click Finish.

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- **13.** You can track the progress of the job from the **Job Controller** or **Event Viewer** window.
- 14. Once the job is complete, right-click the **CommServe** computer, click **View** and then click **Admin Job History**.

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

- **16.** 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



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Admin Job History Filter		
Job Type		
O All	🔿 Data Aging	C Export Media
 Auxiliary Copy 	O Inventory	O Disaster Recovery Backup
O Data Verification	O Offline Content Indexing	C Erase Media
Erase Backup/Archived Data	O Drive Validation	O Drive Cleaning
Stamp Media	Install/Remove Updates	O Download/Copy Software
Install/Upgrade/Remove Software	Disk Library Maintenance	SRM Reports/Actions
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Quick Start Guide - File Archiver for Unix Agent

Previous Next >

Getting Started - File Archiver Archive

< Previous) Next >

PERFORM AN ARCHIVE

After configuring a subclient and a storage policy, you are ready to perform your first archive.

WHAT GETS ARCHIVED

The Unix File Archiver archives the following:

OPERATING SYSTEM	ARCHIVED FILE SYSTEMS
AIX	Journal File System 2 (JFS2)
	IBM General Parallel File System (GPFS)
	VERITAS File System (VxFS)
	VERITAS Cluster File System (VxCFS)
HP-UX	VERITAS File System (VxFS)
Linux	'X' File System (XFS)
	B-tree File System (Btrfs)
	Extended 3 File System (ext3)
	Extended 4 File System (ext4)
	IBM General Parallel File System (GPFS)
	X9000 IBRIX File System (IBRIXFS) 6.x
	PolyServe Matrix Server
	VERITAS File System (VxFS)
	VERITAS Cluster File System (VxCFS)
	Lustre File System (Clustered File System)
Red Hat Linux 6.x	GFS2 (Clustered File System)
	The default Extended 2 File System (ext2) gets archived when it is compiled as a module.
Novell OES2 Linux	NSS file system
Solaris	Unix File System (UFS)
	VERITAS File System (VxFS)
	Zettabyte File System (ZFS on Solaris 10 6/06)

WHAT DOES NOT GET ARCHIVED

The following file types/objects are automatically filtered out of archive operations by the system, and will not be archived.

- Sparse files (Example: File Archiver stub files)
- Install directory
- Job Results directory
- Log files directory
- /usr system directory
- /kernel system directory
- /etc system directory
- /tmp directory
- Extended attributes in the OES Linux data
- Stubs originating from the OES Linux Operating System in a Netware Operating System

The following section provides step-by-step instructions for performing your first archive:

- 1. From the CommCell Console, navigate to Client Computer | File Archiver | defaultArchiveSet.
 - Right-click the Subclient and click Archive.

- 2.
- Select **Immediate** to run the job immediately.
 - Click OK.

- **3.** You can track the progress of the job from the **Job Controller** or **Event Viewer** window of the CommCell console.
- 4. Once the archiving process is completed, files that meet the stubbing rules are stubbed.
 - **Stubs** are placeholders of the original data after it has been migrated to the secondary storage.
 - Stubs replace the archived files in the location selected by the user during the archive.
 - After stubbing, the size of the files on the disk reduces to a single block.

- 5. Once job is complete, view the details of job from the **Archived History**.
 - Right-click the subclient and select View Archived History.
 - Click OK.

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Job Initiation	
Job Initiation	
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Configure Schedule Pattern Con	figure
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Files before stubbing

bose:/ext3 # df -h					
Filesystem	Size	Used	Avail	Use%	Mounted or
/dev/mapper/system-ro	ot				
(9.5G	5.8G	3.8G	61%	1
udev	126M	112K	126M	1%	/dev
/dev/sda1	69M	8.91	56M	14%	/boot
/dev/mapper/savigrp-1	sdm				
		92 M			/fsdm
/dev/mapper/savigrp-e					
	485M	485M		100%	/ext3
/dev/mapper/savigrp-o	dreach				
	4.0G	567M	3.2G	15%	/cdrcache
/dev/mapper/savigrp-o	dreach				
	4.0G	567M	3.2G	15%	/cdrdest
mesons:/vol/vol3/cvbu	aild				
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bose:/ext3 #					

Files after stubbing



Gent Computers Subclea	t Name	Storage Policy	Description
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6. You can view the following details about the job by right-clicking the job:

Quick Start Guide - File Archiver for Unix Agent

- Details of the job
- Events of the job
- Log files of the job
- Media associated with the job



Getting Started - File Archiver Recover

< Previous Next >

ancel Advanced

PERFORM A DATA RECOVERY

It is recommended that you perform a recovery operation of an archived file after your first archive operation to understand the process. Follow the steps given below to perform a restore of a file or multiple files from a Unix terminal or console window.

- 1. Open a Terminal or Console Window.
 - Perform an action that executes an open and read on an archived file to initiate the recovery operation. For example, you can use the vi or cat commands to do this:
 - 0 vi <path><filename>
 - o cat <path><filename>
- You can track the progress of the job from the Job Controller or Event Viewer window of the CommCell console.
 - Multiple stub recoveries are submitted to the Job Controller as one job called a *Persistent Recovery* job.
 - Once job is complete, view the details of job from the **Recover History**.
 - Right-click the ArchiveSet and select View | Recovery History.
 - Click OK.

з.

- 4. Right-click the job and select View Job Details.
- If the subclient is configured to create stubs, by choosing the option Replace the File with a Stub, files that qualify the archiving rule will get stubbed. You can restore stubs following the same steps listed above (step 1 - step 4).

6. After recovery, stubs are replaced by files in the location specified.

Stubbed files:

ose:/fsdm/sol-MA # ls -ls

fsdm/sol-NA #Cat H1

Client Co... Agent Type Subclient Job Type Phase

-rw-r--r-- 1 root root 399234 Sep 29 13:25 H1

-r-- 1 root root 399234 Sep 29 13:25 H2

-r-- 1 root root 399234 Sep 29 13:25 H4

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1oh 10 Operation

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Recovered files:

bose:/ext3 # df -h					
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/dev/mapper/system-	root				
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/dev/sda1	6916	0.9M	5616		/boot
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Page 19 of 21

Quick Start Guide - File Archiver for Unix Agent

Previous Next >

Quick Start Guide - File Archiver for Unix Agent