



# CoBMR Linux Run Book



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# Preamble

CoBMR, from Cristie Software Limited, supports the Bare Metal Recovery of Physical Server (Filebased) registered sources from a Cohesity DataProtect VSE. It can also recover virtual servers, provided they are protected as Physical Server (File-based) registered sources.

The software currently supports version 6.3.x and 6.4.x Cohesity DataProtect VSE.

### How to download

The CoBMR installation media can be downloaded from the following location:

http://source.cristie.com/download/CoBMR

## Getting Started with Cristie CoBMR

There are three stages to the deployment of Cristie CoBMR:

- Install the Cohesity Agent
- Install the Cristie CoBMR backup-side software
- Protect your server with your Cohesity DataProtect VSE

#### **Install the Cohesity Agent**

The Cohesity Agent software can be downloaded from the Cohesity DataProtect VSE webinterface.

- Select the hamburger menu = COHESITY in the top-left hand corner of the page
- Select Sources
- Select the circled plus symbol 
   on the right-hand side of the screen
- Select Download Cohesity Agent
- Select the agent for Linux from the pop-up Download Agents selection options, there
  are different options for package type in the selection box.

Windows	Script installer
Linux	RPM
AIX (Java Agent)	Debian
Solaris 11	Suse RPM

 Once downloaded the package can then be easily installed using the preferred package utility. For example with rpm,

#### # rpm -i el-cohesity-agent-6.4.1a-1.x86\_64.rpm

 Ports may also need to be forwarded on the system for the Cohesity DataProtect VSE to contact the source machine. These are `59999 TCP & 50051 TCP`.



#### Install the Cristie CoBMR backup-side software

Once the Cohesity Agent has been installed, the Cristie CoBMR backup-side software can be installed. At the end of the installation some configuration information is recorded which will be required for a successful BMR recovery, should the server later need to be recovered.

The CoBMR source side software is provided either an RPM, DEB & install script. These can easily be installed via the command line, for example the rpm can be installed like so,

#### # rpm -i cobmr-9.1-1.x86\_64.rpm

The configuration information is recorded by an executable named cobmrcfg, by default in the folder /COBMRCFG on the root drive. The executable should be run before each backup in order to keep the configuration information up to date.

#### Protect the server with the Cohesity DataProtect VSE

The desired machine can now be protected using the Cohesity DataProtect VSE. If not done previously, now is the time to register the server on the Cohesity DataProtect VSE. The Registered source should be added to a protection job. Until at least one successful run of the protection job, the server is not protected. When the registered source has been added to a protection job, ensure that all the data on the server is being protected.



# Licensing for Cristie CoBMR

Cristie CoBMR requires a license. When the product is installed, a trial license is automatically included. This allows the product to be used for a period of 30 days from installation. A trial licence extension will need to be obtained, or a full licence from Cristie Software to continue using the software after the trial period.

### **BMR recovery using Cristie CoBMR**

To perform a Cristie BMR for Cohesity recovery using CoBMR the CoBMR recovery environment on a CD, ISO or USB device will be needed along with a target physical or virtual machine to recover to.

The recovery target will need be booted from the recovery media, (i.e. CD, ISO or USB device). After a short time, the opening page of the Cristie CoBMR recovery environment will be displayed (See Step 1 below).

Cristie Recovery Environment
Cristie Software Limited - Licence Agreement
PLEASE READ THE FOLLOWING LICENCE AGREEMENT BEFORE INSTALLING OR USING THIS SOFTWARE. CONTINUING WITH THIS PROCESS INDICATES THAT YOU HAVE READ AND ACCEPTED ALL THE TERMS AND CONDITIONS OF THIS AGREEMENT. IF YOU DO NOT AGREE TO THE TERMS IN THE AGREEMENT, PROMPTLY RETURN THIS PRODUCT FOR A REFUND.
This software is a proprietary product of Cristie Software Limited and is protected by copyright law. Any confidential information inherent within the software belongs to Cristie Software Limited who retain title to the ownership of the program. You are licensed to use the software on the following terms and conditions. This licence is non-exclusive and Cristie is free to license other parties on terms it deems fit.
<ol> <li>This software may only be used on a single computer unless a multiple site licence has been agreed. The software may not be copied to more than one computer or to any other device, except for the purposes of performing a security backup.</li> <li>You may not rent or lease the software or otherwise transfer or assign the right to use the software save with the prior written consent of Cristie Software Limited.</li> <li>You may not decompile, disassemble, reverse engineer, or in any way modify the program code without the prior written consent of Cristie Software Limited.</li> </ol>
I Decline I Accept

Step 1 of 10.

The opening page of the recovery environment. Agreeing to the Licence Agreement will allow to continuation to recovery selection.

( <sup>*</sup> crictio	Cristie Recovery Environment (test)
Software	
	Choose which product to recover CoBMR V
	ОК
	Sales: +44 3453 847000   email: sales@cristie.com   © Cristie Software Ltd 2036 2020

#### Step 2 of 10.

Select CoBMR from the selection box to recover from Cohesity based backups and then press OK to go to the main menu.



#### Cristie 7 Automatic Recovery Manual Recovery Show Logfiles Copy Logfiles Reboot

#### Step 3 of 10.

The main menu has the ability to configure the recovery environment preferences. A recovery can be started by clicking on the `Automatic Recovery` option.

etup Cohesity VE S	erver Information						
Provide Cohesity VE Server in	formation.						
This wizard will take you through the steps to fully recover your system from a backup.							
Server Address*	10.10.18.100						
Port							
Domain*:	LOCAL						
Username*:	admin						
Password*:							
Verify SSL certificate validity*							
Network Setup							

#### Step 4 of 10.

A pop-up window will then appear, allowing you to enter in the address and access credentials required to access the Cohesity DataProtect VSE.

Select Source	sam	-cohe	sitv-t	est - 1	10.10	0.33.2	27 ~	
Calant Dealward								
зенест васкир	1							
		^		Ма	y-	2020 -	•	-
	Sun	Mon	Tue	Wed	Thu	Fri	Sat	15:00
	26	27	28	29	30	1		16:00
	3	4	5	6	7	8	9	17:00
	10	11	12	13	14	15	16	18:00
	17	18	19	20	21	22	23	19:00
	24	25	26	27	28	29	30	20:00
	31		2	3	4	5	6	-
	_		_					•

#### Step 5 of 10.

If the information provided is correct a selection box to choose the source that is to be recovered will be shown. Along with a date/ time picker to choose a desired point in time to recover to. Days highlighted in Orange show a successful backup for that day.

#### Copy Configuration From Backup

ownloading Cohesity agent... nstalling Cohesity agent... Institling Cohesity agent... Preparing... Environment variable COMESTIVUSER not defined..will Use root account Environment variable COMESTIVUSER not defined..will Use root account Environment variable COMESTIVUSER not defined..will user root account Environment variable COMESTIVUSER not defined..will using root to run the service! Adding systemd service Register: Chesity.agent.service to systemd succesful. Register: Chesity.agent service to systemd succesful. Register: Chesity.agent service to systemd succesful. Register: Chesity.agent service. Restring recovery environment with Cohesity VE... Restring recovery environment with Cohesity VE...

#### Step 6 of 10.

Pressing the next button will then recover the chosen source machine's configuration from the chosen backup run.



Recovery Status
Sittley is subpace version 1: 1:e = 200748 KE LikELEN, UTDE deferTals block attributed at /mt/Slash /dev/sdl (KS) hounted at /mt/Slash/bot Restoring files: Restoring files: Restoring files: Restorer files: Files in the /the directory mag files of the files in /the con renow all files in /the Restorer files: Files in the /the directory mag files of the offention of the Do you wish to clean out the / Cleaning up labels on /the cat: /initial contexts/unlabeled: ho son file or directory SELinox is not emailed sh: efibotor; commed ont fund /mt/Slash/bot meted /mt/Slash/bot meted /mt
Abort Close

Start Recovery									
Specify the restore settings here.									
Dissimilar Hardware	For recovering to different machine types								
Bootloader Override Au	Auto 💙 Override the default bootloader								
SELinux Relabel 🛛 🔽	Reset SELinux on recovered system								
Logging No	ormal 🗸								
Multipath Support	Multipath Options								
Recovery Options Rec	covery Options Post Recovery Network								
Unattended mode Sav	e Answerfile Build custom ISO								

#### Step 7 of 10.

Once the configuration file has finished recovering clicking the Next> button will show a list of options such as post recovery and dissimilar hardware support.

#### Step 8 of 10.

Once the options have been reviewed, going to the next screen starts the recovery beginning with the partitioning and formatting of the target drives before file restore begins.

Recovery Status disre: (c) Cristic Software Ltd. 2004-3020 File descriptor 4 (/war/log/char/recovery.log) leaked on vgremove invocation. Parent PD 2056: sh Logical volume "root" successfully removed Molane group "centor" successfully removed Wollme group "centor" successfully removed Wollme group "centor" successfully removed Molane group "centor" successfully wiped. size\_multiplier=1.00x

\*

#### Step 9 of 10.

Next > Cancel

Abort Close

When the file restore phase shows "Restoring file(s)..." the progress bar will continue to climb as the recovery continues.

#### **Recovery Status**

Initialing 4.00 KiB of logical volume "centos/smap" with value 0. Logical volume "smap" created. meta-data-/dev/mapper/centos-root isize=512 agcount=4, agsize=111856 blks = crc1 findbtG, sparsed = crc1 findbtG, sparsed = crc2 findbtD blks maming version 2 bsize=4000 blcks=2560, version=2 = sectrs512 sun1t=0 blsks, lary-count=1 used-adsta-/dev/sul1512=256 agcount=4, agsize=6536 blks = sectrs512 str-2, projld32bit=1 = crc2 findbtG, sparsed dsta = bize=4000 blcks=2560, version=2 = sectrs512 sun1=0 blsks=4000 secont=4, agsize=6536 blks = sectrs512 str-2, projld32bit=1 = crc2 findbtG, sparsed dsta = bize=4000 blcks=2560, version=2 = sectrs512 str-2, projld32bit=1 = sectrs512 str-2, projld32bit=1 = sectrs512 str-2, blsk=4000 scill-cl00 ftype=0 log =internal log bsize=4000 blcks=2560, version=2 = sectrs525 str-2, blsk=4000 scill-cl00 ftype=0 log =internal log bsize=4000 blcks=2560, version=2 = sectrs525 str-2, blsk=4000 scill-cl00 ftype=0 log =internal log bsize=4000 blcks=2560, version=2 = sectrs525 str-2, blsk=4000 scill-cl00 ftype=0 log =internal log bsize=4000 blcks=2560, version=2 = sectrs525 str-2, blsk=4000 blcks=2560, version=2 = sectrs525 str-2, version=3 = sectrs525 str-2, version=3 = sectrs525 str-2, version=3 = sectrs525 str-2, version=3 = sectrs525 str-2, versi
* Ab

Step 10 of 10.

When the recovery has completed a popup window will appear to notify as such. It is recommended that the "Copy log files" feature from the main menu is used after recovery has completed.

# Appendix A

In order for the Cristie CoBMR recovery environment to function correctly, certain ports must be open between the Cristie CoBMR recovery environment and the Cohesity DataProtect VSE.

The ports required are as follows:

#### Cristie CoBMR recovery environment → Cohesity DataProtect VSE

*Details:* Allows the Cristie CoBMR recovery environment utilities to contact the Cohesity DataProtect VSE via HTTPS.

Port: TCP 443

#### Cristie CoBMR recovery environment ← Cohesity DataProtect VSE

*Details:* Allows the Cohesity DataProtect VSE utilities to contact the Cristie CoBMR recovery environment via the Cohesity agent.

Ports: TCP 59999 & TCP 50051

