



NBMR For Linux

Bare Machine Recovery for Dell EMC NetWorker™

Installation And Licensing Guide

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1 Document Conventions

The following typographical conventions are used throughout this guide:

<code>/etc/passwd</code>	represents command-line commands, options, parameters, directory names and filenames
Next >	used to signify clickable buttons on a GUI dialogue
Note:	describes something of importance related to the current topic



2 Introduction

NBMR for Linux Intel can only be installed on a x86_64 Linux Intel (i.e. 64-bit) machine.

NBMR requires that EMC NetWorker client version 19.1 or later is already installed.

A minimum memory of **6 GB RAM** is required for booting the recovery environment and running a recovery.

Please refer to this web page <https://www.cristie.com/support/matrix/> to determine the latest OS and Dell EMC NetWorker™ client/server support for NBMR Version 9.6.1.

Before NBMR can be used it must also be correctly licensed. Cristie provides a 30 day trial license with the product.



3 NBMR Installation and Removal

The NBMR distribution media is provided for x86_64 Linux Intel (i.e. 64-bit) machine only.

Note: NBMR should be installed and run by a user that has **root** access privileges.

3.1 Install NBMR

The required installation files can be downloaded as follows:

Trial Version:

A Trial Version of the software can be obtained by completing a form on the Cristie website.

<http://www.cristie.com/request-a-trial/>

Existing Customers:

The software can be downloaded after logging into the Cristie licensing portal

<https://portal.cristie.com/login/>

The installation files can be found in the download package in the path `linux/install/` on the NBMR installation CD, DVD or ISO.

Installation Process RPM:

Log in as: `root`

Open a terminal and copy the installation file to say `/tmp`. Then to install from an RPM package enter:

```
[root@NBMR]# rpm -ivh nbmr-9.6.1.3302-1.x86_64.rpm
```

Installation Process DEB:

Log in as: `root`

Copy the installation file to say `/tmp`. Then to install from a DEB package enter:

```
[root@NBMR]# dpkg -i nbmr_9.6.1.3302-1_amd64.deb
```

Installation Process Tar File:

Copy the installation files from the installation CD to the temporary directory:

```
[root@NBMR install]# cp nbmr-9.6.1.3302-1.linux.x86_64.tar.gz /tmp
```

Navigate to the temporary directory:

```
[root@NBMR install]# cd /tmp
```



Extract the tar file with the following command:

```
[root@NBMR tmp]# tar xvzf nbmr-9.6.1.linux.x86_64.tar.gz
```

To install NBMR enter:

```
[root@NBMR nbmr]# ./install
```

This will install all the relevant files and licenses.

NBMR is installed with a 30 day trial license. To extend this license, contact Cristie at support@cristie.com.

3.1.1 Upgrade Install

It is possible to upgrade an existing version of NBMR (6.x.x) to Version 9.6.1

Upgrading RPM installations

To upgrade install using an RPM package enter:

```
[root@NBMR]# rpm -U nbmr-9.6.1.3302-1.x86_64.rpm
```

Upgrading DEB installations

This uses the same syntax as running a clean install, i.e.:

```
[root@NBMR install]# dpkg -i nbmr_9.6.1.3302-1_amd64.deb
```

Upgrading tar file installations

To upgrade previous NBMR tar based installations, copy the installation files from the installation CD to the temporary directory:

```
[root@NBMR /]# cp nbmr-9.6.1.3302-1.x86_64.tar.gz /tmp
```

Navigate to the temporary directory:

```
[root@NBMR /]# cd /tmp
```

Extract the tar file with the following command:

```
[root@NBMR tmp]# cd /nbmr
```

To install NBMR enter:

```
[root@NBMR nbmr]# ./install
```

When prompted, confirm that is is OK to overwrite files.



3.1.2 Existing Installations of other Cristie BMR products

NBMR cannot be installed alongside any other Cristie BMR product.

3.2 Remove NBMR

Uninstall RPM installations

To uninstall the RPM package, use:

```
[root@NBMR /]#  
[root@NBMR /]# rpm -e nbmr
```

Uninstall DEB installations

To uninstall the RPM package, use:

```
[root@NBMR /]#  
[root@NBMR /]# dpkg -P nbmr
```

Uninstall tar file installations

To uninstall the package, navigate to the directory where NBMR was installed and run the install script with the *-u* option.

```
[root@NBMR /]# cd /tmp/nbmr  
[root@NBMR /]# ./install -u
```



4 Product Licensing

When first installed, NBMR may be used for a trial period of 30 days. During that period NBMR is fully functional. If the software is subsequently un-installed and later re-installed on the same system, the 30 day period continues from the date of the first installation.

If you wish to use the software beyond the trial period, you must register and purchase a license from Cristie Software Ltd.. Alternatively, and in special circumstances, Cristie Software Ltd. may extend the license period if you wish to trial the software beyond that period.

If you purchase the product, then contract and license activation codes will be available on the Cristie Licensing Portal. Together these codes will enable you to fully activate the product.

The following sections discuss this in more detail.

4.1 Trial License

A 30-day trial license commences from the date of installation. The NBMR configuration file generator nbmrcfg will not run after this period expires.

You may use the Cristie License Manager to add or inspect license details at any time. This is achieved by opening a terminal and entering:

```
#  
# licmgr -p nbmr
```

Entering this command, will display the Cristie License Manager. This shows Machine attributes, Contract ID, the installed host System signature, the current product (NBMR in this case), the product version, the trial end date and the current license Status.

```
=====
                        Cristie License Manager Version
                          9.6
                Copyright (C) 2012-2024 Cristie Software Limited
=====
Machine attributes : {virtual, server}
  Contract ID : 0
  Signature : KB7NQECU-CKTFTZVU-79R3SV2D-FCP7KX99
  Product : Bare Machine Recovery for NetWorker (NBMR)
  Version : 9.6
  Trial ends on : 2024-05-31

                        Status : Trial licence
```

The NBMR configuration file generator will become active again when a full license has been purchased from Cristie Software Ltd. and the new contract and activation code entered via the Cristie License Manager.



4.2 Full License

A Full license entitles the Customer to product support and upgrades for the duration of the license period.

To upgrade from the trial license to a full license, you need to apply for a full license activation code either via the Cristie Licensing Portal website or via the product Cristie License Manager. In either case you will need to first register an account on the Cristie Licensing Portal (located at <https://portal.cristie.com/login>). A Contract ID will be created and provided to you when you purchase a license.

These are the various codes used in the Cristie licensing process:

Contract ID: A 4-digit number supplied by Cristie Software Ltd. Sales during the license purchase process.

Agreement Number: Same as *Contract ID* at the moment.

Contract Code: 35-character contract code obtained from the Cristie Licensing Portal

Activation Code: 35-character support activation code obtained from the Cristie Licensing Portal

In special circumstances a 'bulk license' may be issued by Cristie Software Ltd. for customers that order a significant number of product licenses. Please contact your Cristie sales representative if you wish to discuss this service.

Note this discussion assumes that NBMR is already installed on a Customer production machine.

4.2.1 Setting up a Cristie Licensing Portal account

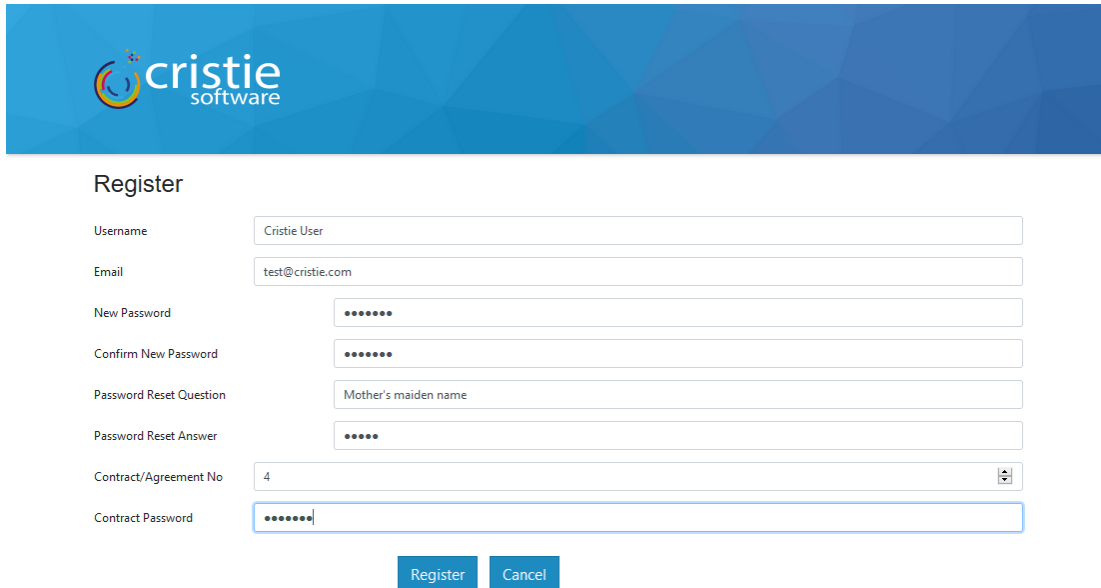
To setup a new account on the Cristie Licensing Portal follow the following steps. To do this you will need your 4-digit Contract ID and contract setup password. These will be provided by email from Cristie Software Ltd. when you purchase a product license.

Note: Your Contract ID may have been supplied to you as your contract Agreement Number. In that case please use your Agreement number in place of the Contract ID throughout.

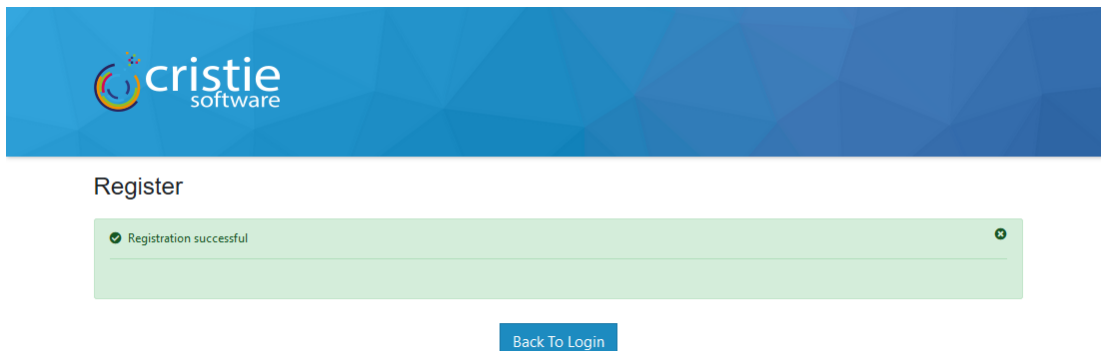
1. On a suitable machine that has Internet access run a browser (such as Microsoft Internet Explorer on Windows) and navigate to the Cristie Licensing Portal web page at <https://portal.cristie.com/login>.

The screenshot shows the login interface for the Cristie Software Licensing Portal. It includes the company logo, input fields for email and password, and buttons for login, password reset, and registration.

Select [Register](#) to create a new account. Enter your new account details (note this is an example):



Then click [Create](#). If successful the following is shown.



At this point you may now log in to the Cristie Licensing Portal using the E-mail ID and password setup in the previous steps.

4.2.2 Offline activation

This involves activating using the Cristie Licensing Portal as follows. This discussion assumes your contract is already setup on the Cristie Licensing Portal.

Assign your Activation code on the NBMR host machine by opening up a terminal and entering:

```
#  
# licmgr -p nbmr --act xxxxxxxx-xxxxxxx-xxxxxxx-xxxxxxx
```

(where xxxxxxxx-xxxxxxx-xxxxxxx-xxxxxxx is your Activation code, which can be obtained by signing into the Cristie Licensing Portal) and use the **Activate Licenses** option. You will need your host's IP address, hostname and license signature. The latter can be obtained



from the `licmgr -p nbmr` output.

```
=====
                Cristie License Manager Version
                        9.6
                Copyright (C) 2012-2024 Cristie Software Limited
=====
Machine attributes : {virtual, server}
  Contract ID : 0
  Signature : KB7NQECU-CKTFTZVU-79R3SV2D-FCP7KX99
  Product : Bare Machine Recovery for NetWorker (NBMR)
  Version : 9.6
  Trial ends on : 2024-05-31

                Status : Trial licence
```

The Cristie License Manager will be refreshed showing your Contract ID, the new Activation code and your contract support end date.

```
=====
                Cristie License Manager Version
                        9.6
                Copyright (C) 2012-2024 Cristie Software Limited
=====
Successfully applied the activation code.
Machine attributes : {virtual, server}
  Contract ID : 4
  Signature : KB7NQECU-CKTFTZVU-79R3SV2D-FCP7KX99
  Product : Bare Machine Recovery for NetWorker (NBMR)
  Version : 9.6
  Maintenance ends on : 2024-12-31

  Activation code : C4RSAEHR-ZMPM3HTE-XCB8GP7K-T9NQ8TYK
  Activation type : Product activation
  Maintenance ends on : 2024-12-31
  Attributes : {physical, server}

                Status : Full licence
```



5 Cristie Technical Support

If you have any queries or problems concerning your Bare Machine Recovery for Dell EMC NetWorker™ product, please contact Cristie Technical Support. To assist us in helping with your enquiry, make sure you have the following information available for the person dealing with your call:

- NBMR Version Number
- Installed OS type and version
- Any error message information (if appropriate)
- Description of when the error occurs
- All Cristie log files relating to the source or recovery machine. This is very important to help us provide a quick diagnosis of your problem

Contact Numbers - Cristie Software (UK) Limited

Technical Support	+44 (0) 1453 847 009
Toll-Free US Number	1-866-TEC-CBMR (1-866-832-2267)
Knowledgebase	kb.cristie.com
Forum	forum.cristie.com
Sales Enquiries	sales@cristie.com
Email	support@cristie.com
Web	www.cristie.com

Support Hours

05:00 to 17:00 Eastern Standard Time (EST) Monday to Friday

Out-of-Hours support available to customers with a valid Support Agreement - Severity 1 issues* only

UK Bank Holidays** classed as Out-of-Hours - Severity 1 issues only.

*Severity 1 issues are defined as: a production server failure, cannot perform recovery or actual loss of data occurring.

**For details on dates of UK Bank Holidays, please see www.cristie.com/support/

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