



NovaBACKUP®

CMon v19.5

User Manual

The screenshot displays the NovaBackup CMon Dashboard. The top navigation bar includes links for Dashboard, Agents and Groups, Jobs, Notifications, Cloud Storage Accounts, Settings, and Help. The main content area is divided into two sections: Agents and Job History.

Agents Section: A table lists agents with columns for Name, Connected status, Last Backup Date, Last Backup Status, Last Backup Size, and Last Backup Duration. A green circular progress indicator is shown on the left.

Name	Connected	Last Backup Date	Last Backup Status	Last Backup Size	Last Backup Duration
Kevin	●	4/13/2020 9:59:29 AM	●	1.46 GB	1 hour
Robert	●	4/13/2020 9:29:29 AM	●	1.46 GB	1 hour
Jeff	●	4/12/2020 10:29:29 PM	●	2.18 GB	1 hour
David	●	4/12/2020 10:29:29 PM	●	9.14 GB	1 hour
Ruth	●	4/12/2020 9:29:29 PM	●	879.73 MB	1 hour
Nancy	●	4/12/2020 8:29:29 PM	●	3.18 GB	1 hour

Job History Section: A table lists backup jobs with columns for Group, Agent, Job, Type, Started, Ended, Status, Size, Files, and Duration. A circular progress indicator is shown on the right.

Group	Agent	Job	Type	Started	Ended	Status	Size	Files	Duration
Marketing	Kevin	Daily	Backup	4/13/2020 9:59:29 AM	4/13/2020 9:29:29 AM	●	1.46 GB		1 hour
Engineering	Robert	Daily	Backup	4/13/2020 9:29:29 AM	4/13/2020 11:29:29 PM	●	1.46 GB		1 hour
Sales	Jeff	Daily	Backup	4/12/2020 10:29:29 PM	4/12/2020 11:29:29 PM	●	2.18 GB		1 hour
Sales	David	Daily	Backup	4/12/2020 10:29:29 PM	4/12/2020 11:29:29 PM	●	9.14 GB		1 hour
Accounting	Ruth	Daily	Backup	4/12/2020 9:29:29 PM	4/12/2020 10:29:29 PM	●	879.73 MB		1 hour
Human Resources	Nancy	Daily	Backup	4/12/2020 8:29:29 PM	4/12/2020 9:29:29 PM	●	3.18 GB		1 hour

The bottom section of the screenshot shows a detailed view of a backup job, including columns for Sales, Jeff, Daily, Backup, and specific timestamps. It also includes a circular progress indicator and a summary of the job's status.

Features and specifications are subject to change without notice.

The information provided herein is provided for informational and planning purposes only.

Table of Contents

Introduction	
System Requirements	
Installation	
Setting up the backup client	
Logging In	
The Dashboard	
Agents & Groups	
Log Viewer	
Notification Triggers	
Account Management	
Set Password	
Password	
Time Zone	
Language	
Cloud Storage Accounts	
Create an account	
Connect to an account	
View details of an account	
View computers	
Edit cloud storage account	
Change the password	
Change the license key	
Delete an account	
Delete a computer	
Storage Server	
Settings	
Agent Settings	
Security Settings	
Notification Settings	
Users	
User registration	
User registration and creating a cloud storage account in one step	
Create a user	

[View a user](#)

[Edit a user](#)

[Delete a user](#)

[User Registration](#)

[Roles](#)

[Storage Servers](#)

[Add a storage server](#)

[Web Hook](#)

[Update](#)

[Application](#)

[Server Administration Desktop Application](#)

[Scheduled Task](#)

[Web Configuration File](#)

[IP Filter Configuration File](#)

[Help](#)

[Documentation](#)

[About](#)

[Known Issues](#)

[Troubleshooting Tips](#)

[Windows Service Logging](#)

[Standalone Web Server Logging](#)

[Web Site Logging](#)

[Scheduled Task Logging](#)

Introduction

Thank you for choosing NovaBACKUP® CMon by NovaStor

CMon (Central Monitoring Console) is an application that works along side your NovaBACKUP PC, Server, and Business Essentials backup software. The CMon can be utilized to monitor the associated backup jobs in your entire backup environment, all from a single pane of glass style website interface. CMon is accessible via web browser and can be viewed via Internet Explorer 9+, Google Chrome, Mozilla Firefox as well as most smart phone web browsers.

NovaBACKUP® CMon is composed of 2 components.

1. The CMon (Central Monitoring Console) application enables the capability to monitor backup agents from any edition of NovaBACKUP® PC, Server, or Business Essentials, **version 18.0** and above. Typically CMon is installed on a Windows Server machine which does not have NovaBACKUP backup software installed on it. CMon can run on the same server that NovaBACKUP backup client is installed but it may perform better on a separate server. Read the [System Requirements](#) section for more information.
2. Your installations of NovaBACKUP® PC, Server and Business Essentials, version 18.0 or higher, which are installed on your systems to backup critical data, such as SQL and Exchange databases, as well as virtual environments. This quick start guide will describe how to setup the CMon, along with how to connect one installation of NovaBACKUP® (referred to as an agent) to the CMon. Subsequent installations of NovaBACKUP® PC, Server and Business Essentials will require configuration to connect to the CMon in the same manner.

System Requirements

Hardware

- Intel **Dual Core** CPU or better
- 4 GB of RAM minimum
- 3 GB free hard drive available space on OS drive

Operating System

- Microsoft Windows Server 2019
- Microsoft Windows Server 2016
- Microsoft Windows Server 2012 R2
- Microsoft Windows Server 2012
- Microsoft Windows Server 2008 R2 SP1
- Microsoft Windows Server 2008 SP2

Microsoft .NET Framework

Microsoft .NET Framework 4.6 or higher

SQL Server (Optional)

Microsoft SQL Server is recommended when using more than 5 backup agents.

- Microsoft SQL Server 2017
[Download Microsoft SQL Server 2017 Express](#)
- Microsoft SQL Server 2016
[Download Microsoft SQL Server 2016 SP2 Express](#)
- Microsoft SQL Server 2014
[Download Microsoft SQL Server 2014 SP2 Express](#)
- Microsoft SQL Server 2012

[How to determine the version, edition, and update level of SQL Server and its components](#)

Web Server (Optional)

IIS with IIS 6 compatibility

Networking

- TCP/IP network

Web Browser

- Modern [HTML5](#) supported **desktop web browsers** such as Internet Explorer 9 and above, Chrome, Firefox, Safari, Opera, Edge
- Modern [HTML5](#) supported **mobile web browsers** such as Android 5.0, iOS 9.0, Windows 10, BlackBerry 10, Opera Mobile, Amazon Silk

Note: To test [HTML5](#) compatibility with your current browser please test it here: <https://html5test.com/>. A points score closer to 500 is optimal.

Installation

The first step is the successful installation of the CMon. This is where all of the agents will check into and allow you to centrally monitor your backups across multiple machines through a web browser. The CMon needs to be installed onto a Windows Server 2008 R2 or 2012 machine that all of the other machines on which you install agents can talk to. Please check the System Requirements for the NovaBACKUP® CMon for the machine requirements for installation of the software.

The agents themselves connect to the CMon through port 4502 by default, though this is configurable. The built-in web server will use port 80, allowing you to connect to the web page and monitor your backups. This may also be configured at the time of CMon installation.

The default choices for the installation of the CMon should be sufficient for most environments and you are advised to utilize the default choices.

If you have more than 5 backup agents, it's recommended to use Microsoft SQL Server. If you do not already have IIS installed on the machine which the CMon will be installed - the built-in web server will work great.

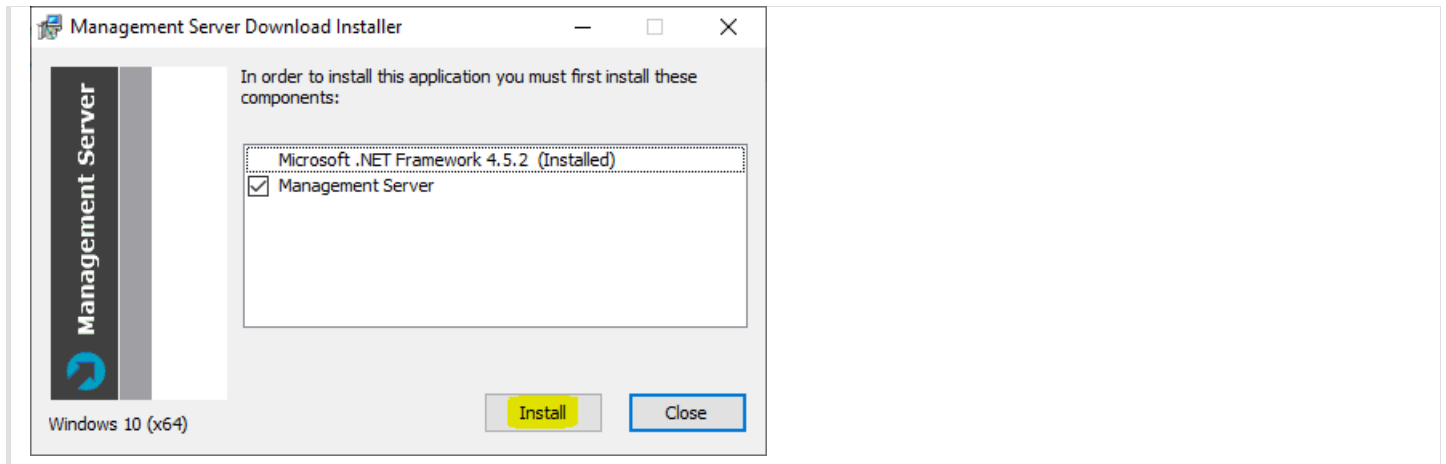
For more detailed steps through the installation of the CMon please consult the section on CMon Installation coming up next in this User Manual.

Things to note for the installation of the CMon:

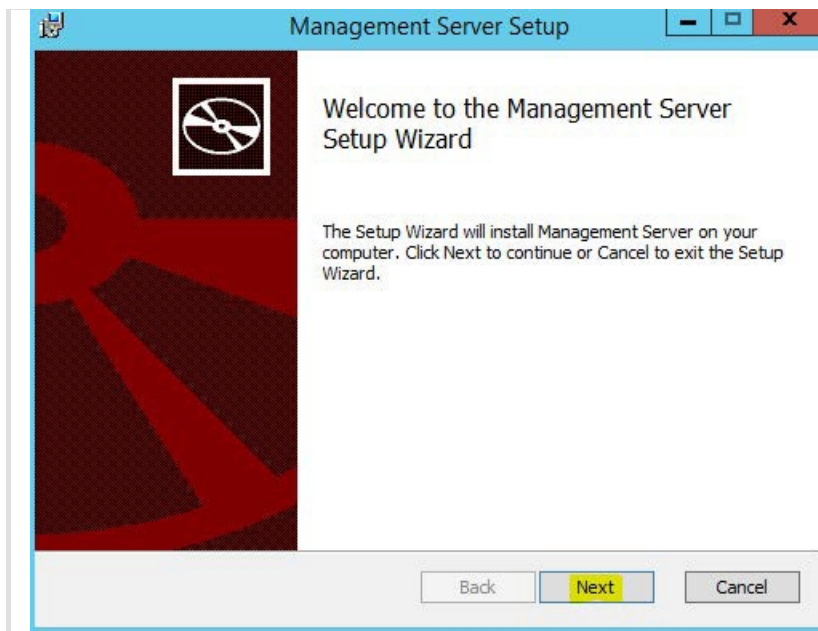
- Make sure the incoming and outgoing firewall default ports 80 and 4502 are correctly configured to allow for proper communication.
- During the installation of the CMon you will be asked for the Public Server Address of the management server (CMon). This needs to be an address or URL where all of the agents can reach the CMon.
- Before connecting agents to the CMon make sure you can login to it. There will be a shortcut in your Start Menu that opens a web page with the CMon login. The default login user is "admin" and the default password is "admin"

To **install CMon** , run the setup executable to begin the installer wizard, the installer will let you know what things you are missing for the prerequisites to install the software.

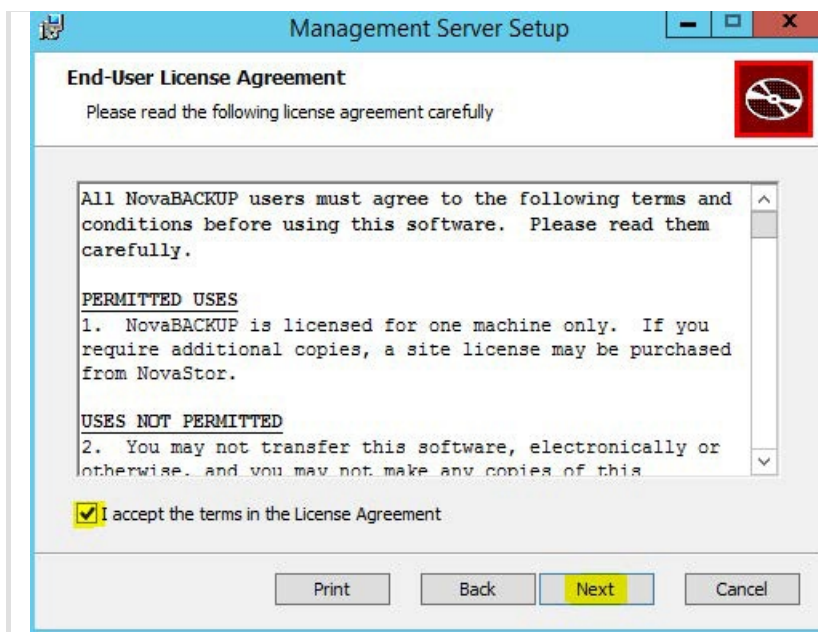
Upon running the installer, the following screen is displayed to ensure all prerequisite components are installed.



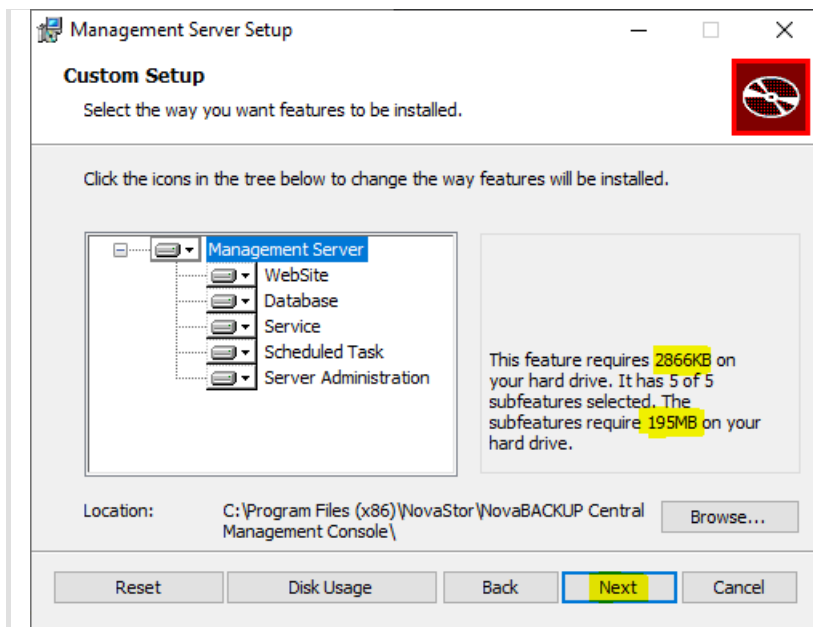
After you have all the prerequisites installed, click on Install and the following screen will be displayed:



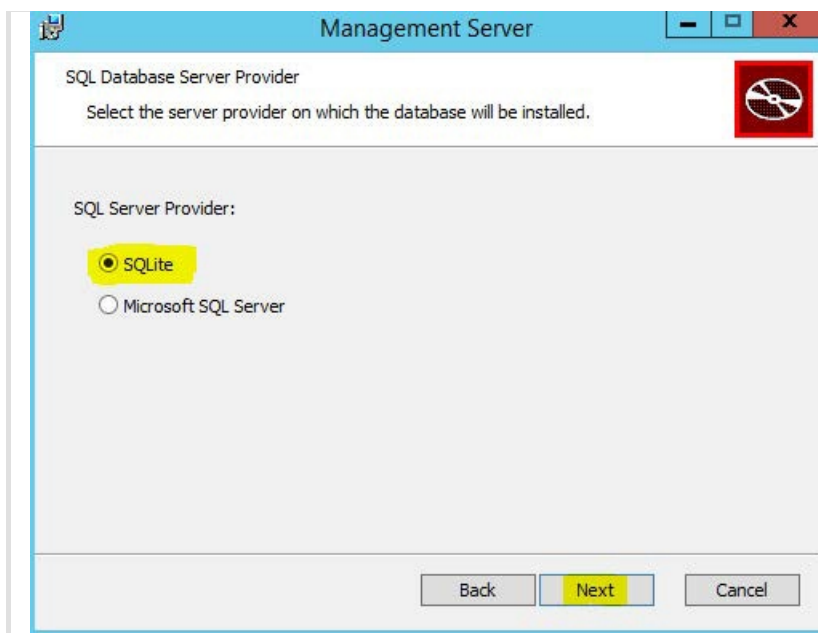
Clicking next on this screen will present you with the End-User License Agreement screen which needs to be accepted before continuing.



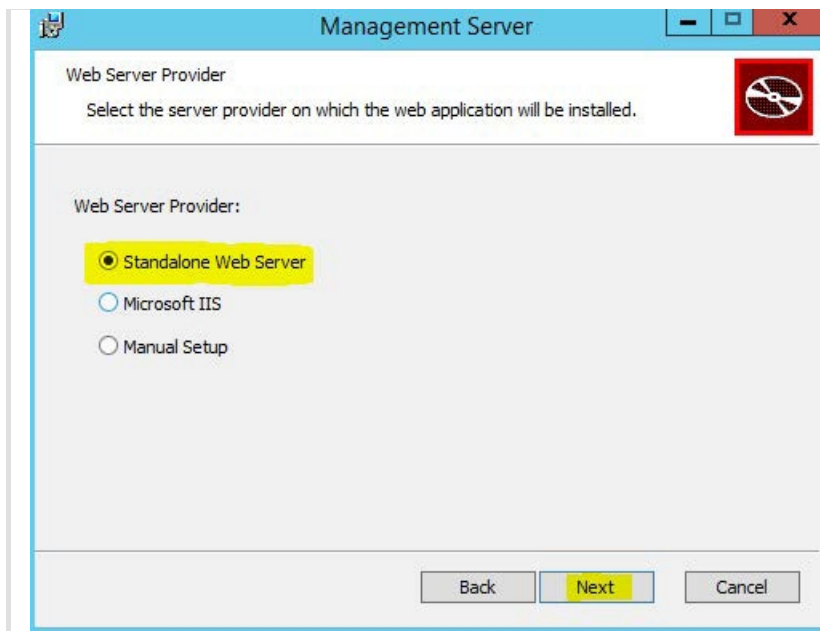
After accepting the EULA the next screen shows what features will be installed, it is recommended to keep everything with the defaults here unless there is a specific reason you need to change them.



The following screen allows you to choose whether or not you are going to use the **built in SQLite** database or utilize a Microsoft SQL Server. If you have more than 5 backup agents, it's recommended to use Microsoft SQL Server for better performance and improved experience.

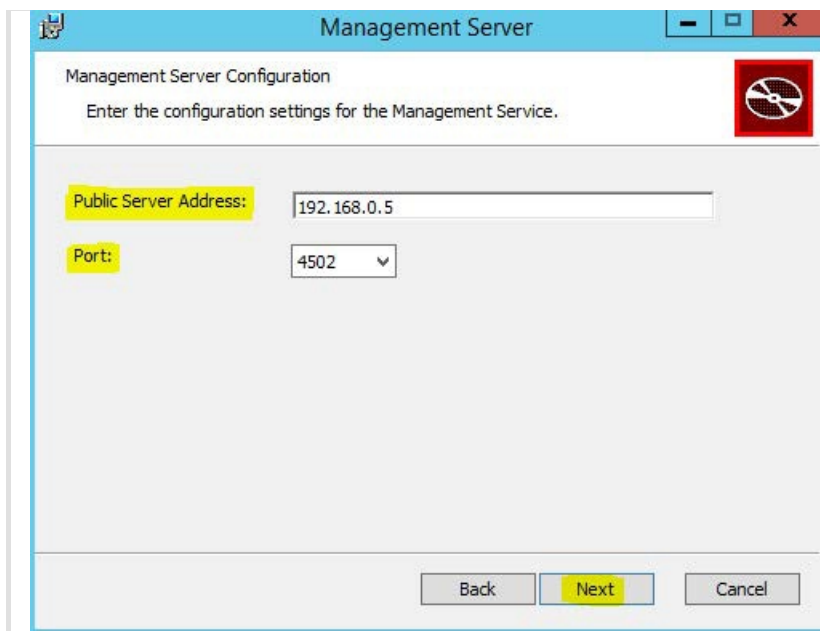


Assuming you choose the SQLite database the next screen you will see is the screen that will ask you where you want to host the web application. If you do not already have IIS installed on your machine, we have found in testing that the standalone web server works very well. If you have IIS installed it is recommended that you use it, otherwise you will have a conflict of open ports.

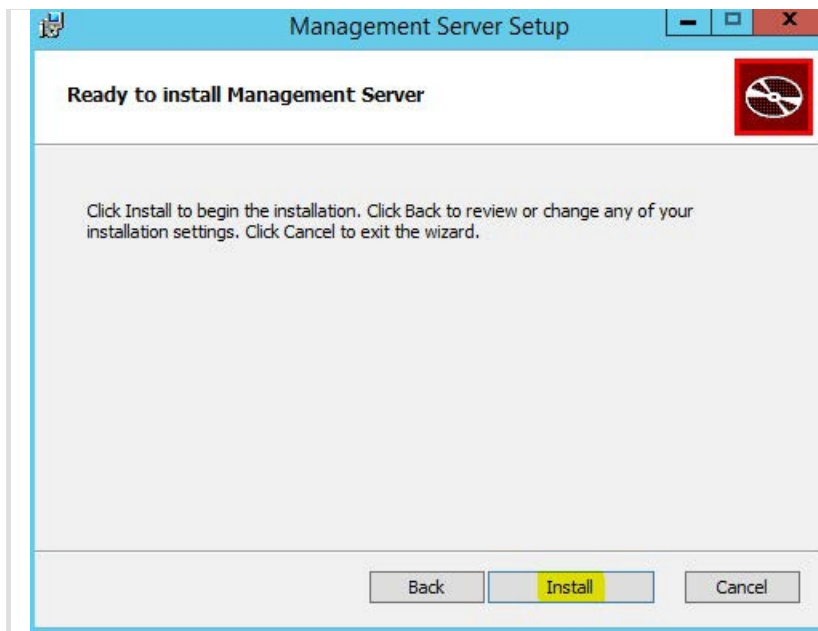


After choosing where you want the web application installed to it is time to configure the web application. The Public Server Address dialog box shown in this screen is the IP, DNS name, or computer name that the NovaBACKUP agents are going to be communicating with. The Port dropdown box contains the available ports that the NovaBACKUP agents can communicate to the CMon on.

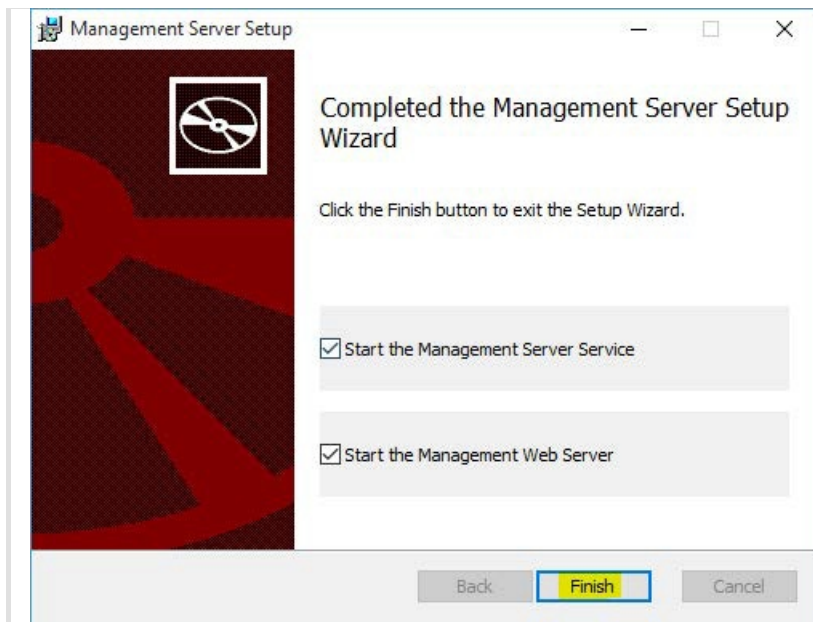
The computer that hosts CMon needs to have the port that you choose open on it so the NovaBACKUP agents can communicate with the CMC. The agents themselves do not need to open any incoming ports, but they have to be configured to use the correct port. All agent communication is initiated from the agent so no incoming communication from the CMC is initiate so there should not be much to deal with firewalls on the NovaBACKUP agents.



At this point all the information needed to install CMon has been gathered and the installer is ready to start installing it.



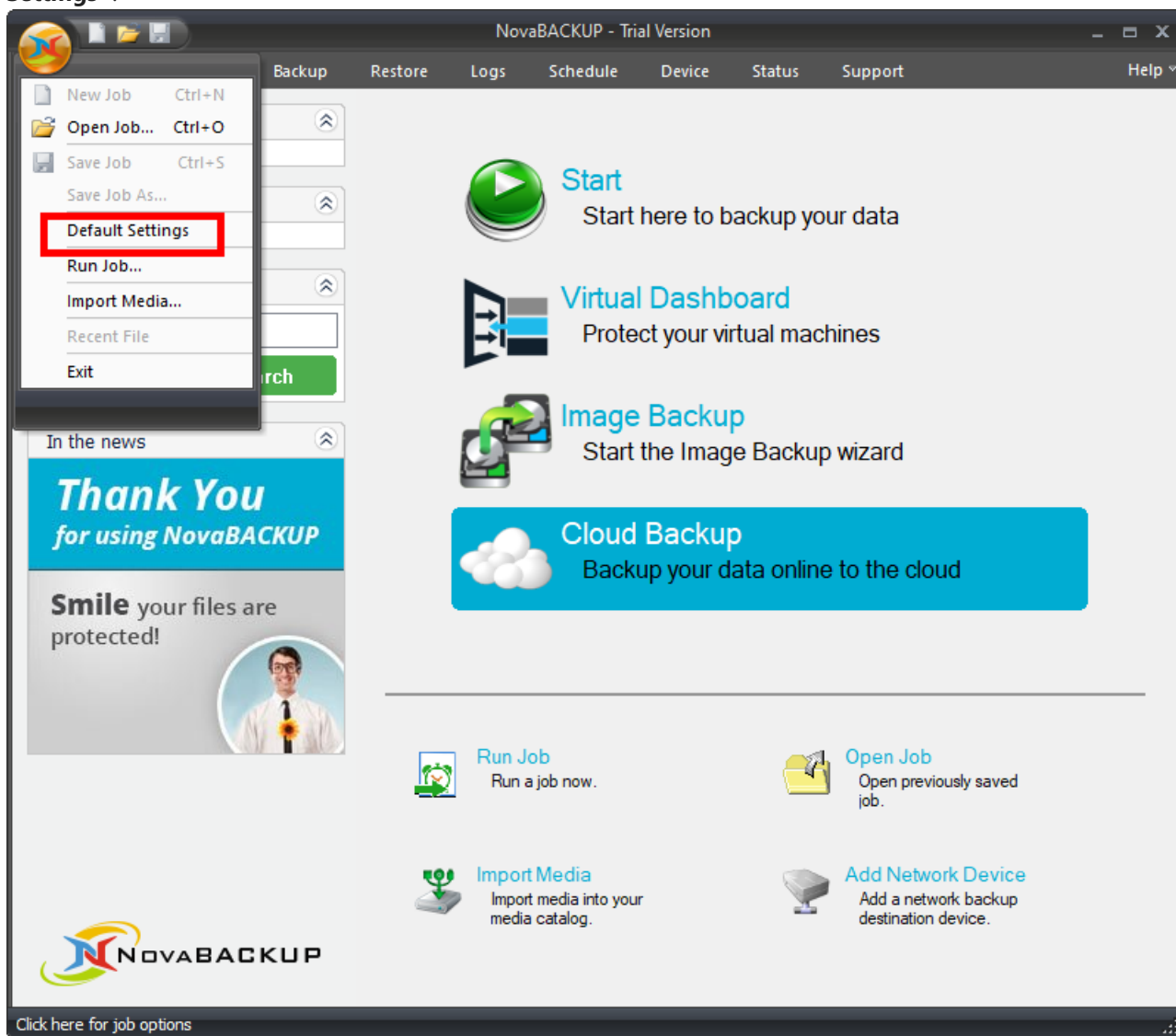
When the installer completes you will see the following screen which starts the required Services. Click "Finish" to complete the installation. If any other CMon installation related screens are still open at this point you can close them.



Setting up the backup client

Now that you have the CMon successfully installed it's time to connect an agent to it. This section will cover how to setup the backup client software to connect to CMon.

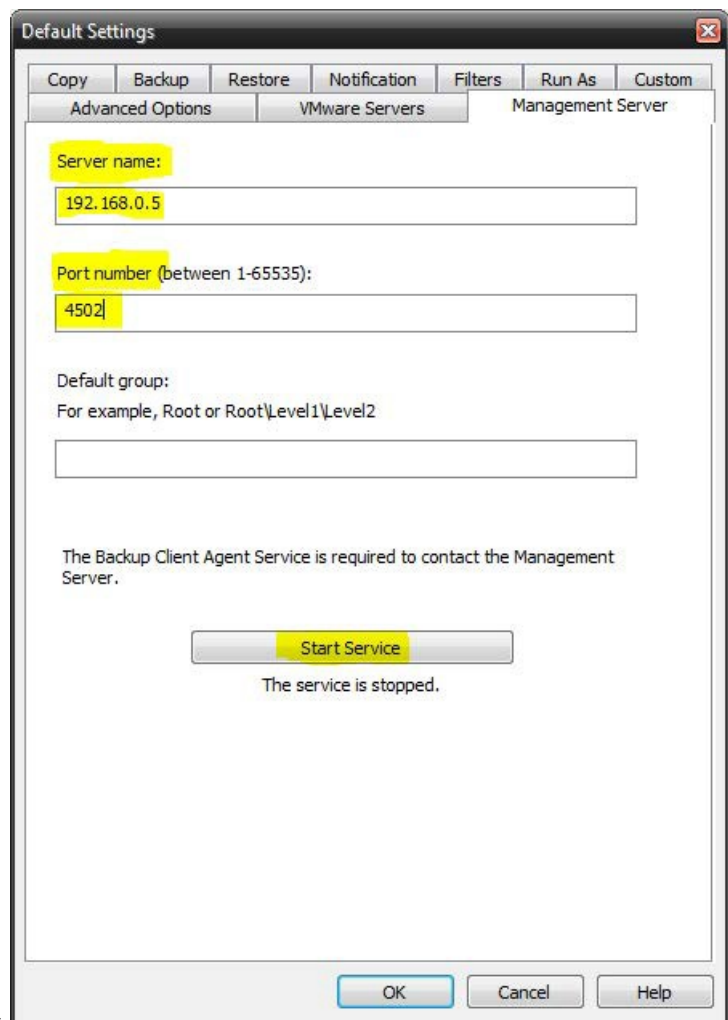
1. The first thing you need to do is install a backup client (NovaBACKUP® PC, Server, or Business Essentials) on the machine you'd like to back up. For instructions on how to do this please consult the NovaBACKUP® Quick Install Guide. By accepting all default options during installation, all necessary items will be installed. Once NovaBACKUP® PC, Server, or Business Essentials is installed we need to configure the connection to CMon. NovaBACKUP PC, Server, and Business Essentials clients require a setting to be configured in order for the backup client to become an Agent.
2. Start the NovaBACKUP client and click on the Home tab.
3. From the main menu click the large circle NovaStor logo button highlighted at the top left, and then click " **Default Settings** ". >



This

will open a screen with a series of additional tabs.

4. Once in " **Default Settings** " you will click on the " **Management Server** " tab. You will be required to configure the " **Server name** " and " **Port number** " variables on this screen. Enter the server address or IP address of the machine where CMon is installed in the " **Server name** " field. Enter the port number CMon is configured to use in the " **Port number** " field. These values should be the same values entered during the CMon installation. The default port number is 4502. The "Default group" option on this screen will automatically place this agent into the group specified on the CMon. In general you do not need to enter anything in the Default Group option at this point. If you do not choose a Default group this agent




will be placed in the "Pending" group in CMon. >


5. Click the "**Start Service**" button to start the service. "The service is started" is displayed when the service has started successfully which is required in order to connect to CMon. Click the "OK" button to save the changes. Now you have the CMon installed, the backup client installed, and the agent connected to CMon. You should now be able to login to the CMon and see the agent.
6. To verify the service is an automatically starting service, open up Windows Services. Once in the Services screen, find the service named "Backup Client Agent Service". This is the service that actually connects to the CMon so you can monitor your agent. By default this service is set to Manual, go to the properties of this service and set it to Automatic (Delayed Start), and [Apply]. You may now exit out of Windows Services.
7. Additional agents may be connected using these same steps.

Logging In

Logging in to the CMon is as simple as opening a web browser on your computer and browsing to the IP address, DNS name, or computer name along with the port number that you configured during the CMon installation; the default web port is 80. A shortcut to the website is installed on the computer where CMon was installed in the Start Menu in the "NovaStor" group for convenience.

The CMon website should work with any modern web browser including Internet Explorer 9 and above, Google Chrome, Mozilla Firefox as well as most smart phone web browsers.

 NovaBACKUP CMon



Log in

User name

Password

☐ Remember me?

Log in

Register

© 2020 - NovaStor Corporation



The default login Username is **admin** with a Password of **admin**.

After logging in for the first time, it's recommended to change your password using the [Account Management](#) page.

If the number of times a user fails to log in because of an invalid password exceeds the maximum number configured in the [Web Configuration File](#), the user will be locked out. Use the [Users](#) page to unlock an account. To unlock the admin account, use the [Server Administration Desktop Application](#).

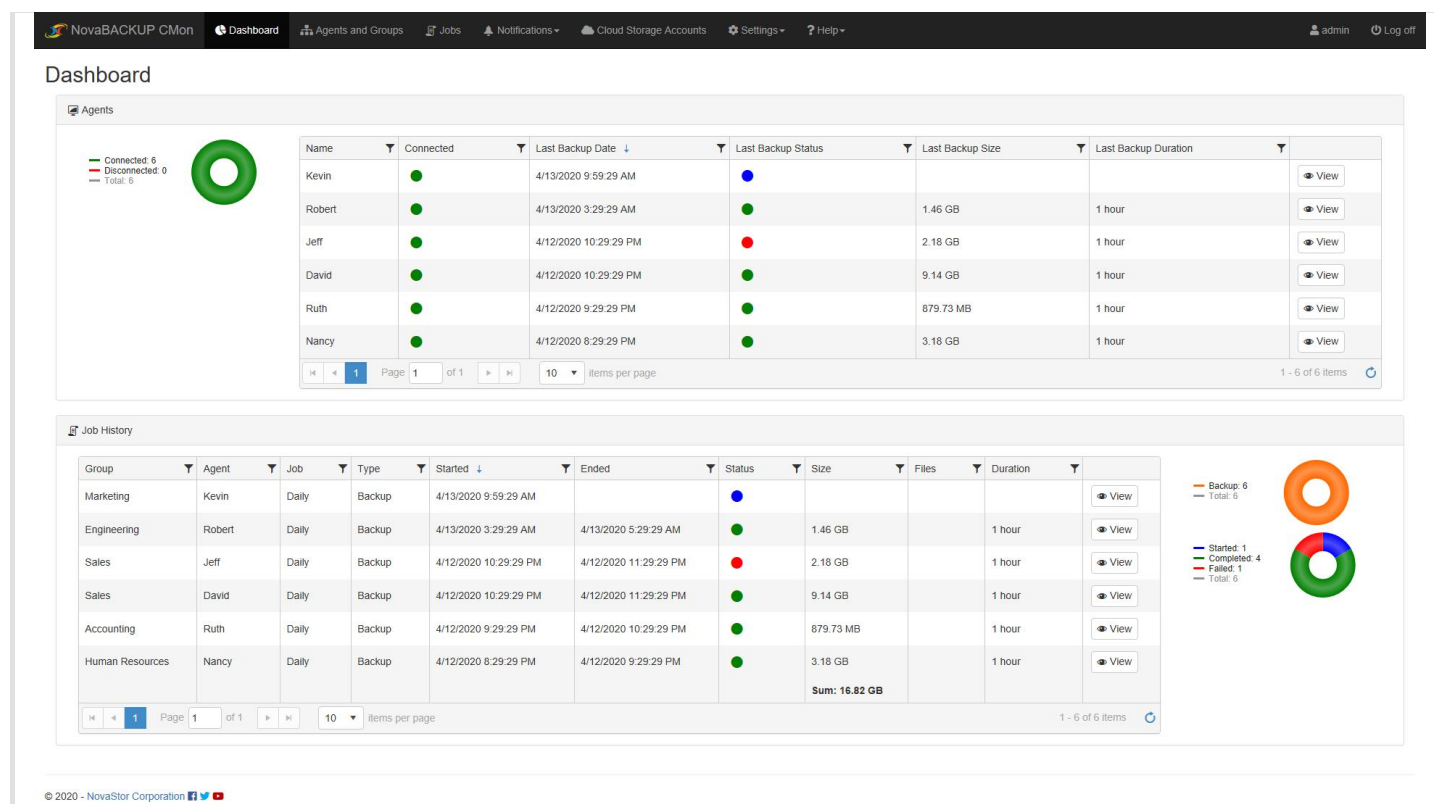
Users logging in or registering from the embedded web browser in the backup client will automatically be redirected to view or create a new cloud storage account if permitted.

If the "Remember me?" check box is checked, a cookie will be created which allows the user to remain logged in for up to 7 days of inactivity by default.

Dashboard

The CMon can be utilized to monitor all of the NovaBACKUP clients and the associated backup jobs in your environment, all from a single pane of glass interface. CMon is accessible via web browser and can be viewed via Internet Explorer 9 +, Google Chrome, Mozilla Firefox as well as most smart phone web browsers.

The **Dashboard** is displayed just after login. It is an overview of your NovaBACKUP environment.



The **"Menu"** that is displayed on the top of each page shows the various functions that can be quickly accessed. If the browser's width is too narrow, the menu will be collapsed and in order to expand the menu, click on the 3 horizontal lines near the top right corner of the page.

On the Dashboard screen you can perform various functions.

To view more details about a particular NovaBACKUP Agent in your environment, you can double-click on an "Agent" via the Dashboard screen. An Agent is simply a computer that is running NovaBACKUP backup client software that was configured to utilize the CMon application for monitoring.

You can hover over the circular pie-chart graphic near the bottom right of the screen to see your job statuses. To display jobs with all of the various types of status including Failed, Successful, Warning, Stopped, and Started jobs.

Permissions required

View Dashboard

Agents and Groups

Agents and Groups is the area in CMon where you will view all of your client software that has been configured to connect to the CMon. You can create Groups here as well as print a Report of the contents of the Agents & Groups area.

Agents and Groups

+ Add new group

Name	Description	Connected	Last Activity Date	Last Backup Date	Last Backup Status	Last Backup Size	Last Backup Number of Files	Last Backup Duration	xSP Username	Last Note	Version	
Example												View
Accounting												View
Ruth		<div></div>	4/23/2019 11:24:26 PM	4/23/2019 10:24:26 AM	<div></div>	879.73 MB		1 hour			19.0.1124.1	View
Human Resources												View
Nancy		<div></div>	4/23/2019 11:24:25 PM	4/23/2019 9:24:26 AM	<div></div>	3.18 GB		1 hour			19.0.1124.1	View
IT												View
Engineering												View
Robert		<div></div>	4/23/2019 11:24:25 PM	4/23/2019 4:24:26 PM	<div></div>	1.46 GB		1 hour			19.1.1406.1	View
Marketing												View
Kevin		<div></div>	4/23/2019 11:24:24 PM	4/23/2019 10:54:26 PM	<div></div>						19.0.1124.1	View
Sales												View
David		<div></div>	4/23/2019 11:24:23 PM	4/23/2019 11:24:26 AM	<div></div>	9.14 GB		1 hour			19.0.1124.1	View
Jeff		<div></div>	4/23/2019 11:24:24 PM	4/23/2019 11:24:26 AM	<div></div>	2.18 GB		1 hour			19.0.1124.1	View
Pending	Machines not assigned to groups											View

1

Page 1 of 1

10

items per page

1 - 2 of 2 items

Agents and Groups - Add new group function example:

Adding a Group is performed by clicking the " **Add new group** " button as seen in this example.

Create Group

GroupUsersNotes

Name

Customer Support

Description

The customer support department

Parent

IT

Save

Permissions required

View Agents and Groups

Edit Groups

Log Viewer

Log Viewer via the Dashboard example (1 of 2):

Via the Dashboard you can double-click on any agent name that you are interested in seeing the log for and it will display the backup log as seen in this example.

This first example is a job with Successful status.

Backup - My Backup

Start 4/23/2019 6:24:26 PM - End 4/23/2019 7:24:26 PM (01:00:00)

Successful

Backup Location

C:\backup

Files Selected

65 (9 GB)

Files Completed

65 (9 GB)

Application

NovaBACKUP v19.0.1124

Write Mode

Overwrite

Backup Open Files

On

Media Name

Media Name

Compression

On

Encryption

Off

Backup Type

Full

Messages

Type	Message	Timestamp
No messages were logged.		

0

0

of 0

20

items per page

No items to display

Delete

Log Viewer via the Dashboard example (2 of 2):

This second example is a job with Failed status.

Backup - My Backup

Start 1/9/2020 11:31:13 AM - End 1/9/2020 12:31:13 PM (01:00:00)

Failed

Backup Location

C:\backup

Files Selected

65 (2 GB)

Files Completed

65 (2 GB)

Application

NovaBACKUP v19.0.1124

Write Mode

Overwrite

Backup Open Files

On

Media Name

Media Name

Compression

On

Encryption

Off

Backup Type

Full

Messages

Type	Message	Timestamp
Error	Error e0020038: The license has expired.	12/31/1969 4:02:03 PM

1

1

of 1

20

items per page

1 - 1 of 1 items

Delete

Permissions required

View Job History

or

[View Jobs and Job History](#)

or

[View Jobs Logs](#)

Notification Triggers

A **Notification Trigger** is an e-mail notification for selected groups of agents on an interval basis. A single trigger can be created for an entire group of agents. The notification will be an e-mail sent to the e-mail addresses specified in the trigger configuration. The current triggers are shown in the "Notification > Triggers" page.

Notification Triggers

+ Add Trigger				
Groups	Agents	Job Statuses	Last Checked	
Pending, Example, Accounting, Human Resources, IT, Engineering, Marketing, Sales, Customer Support	David, Jeff, Kevin, Nancy, Robert, Ruth	Started, Successful, Failed, Stopped, Warning	4/23/2019 11:26:12 PM	View Delete
<div> ◀ 1 Page 1 of 1 ▶ </div> <div> 10 Items per page </div> <div> 1 - 1 of 1 items </div>				

When creating a **New Trigger**, you are asked some questions including the agents and groups that will be included in the notification. The " **Notification Interval** " choices are Daily, Weekly, Monthly and Immediate. You can set a custom subject, message text, etc. When done configuring click the Add button.

Add Trigger

Groups

Accounting X Customer Support X Engineering X Example X Human Resources X IT X Marketing X Pending X Sales X

Select All Groups Deselect All Groups

Agents

David X Jeff X Kevin X Nancy X Robert X Ruth X

Select All Agents Deselect All Agents

Job Status

Failed X Started X Stopped X Successful X Warning X

Select All Job Statuses Deselect All Job Statuses

Interval

Immediate

Recipients

admin@example.com

Separate multiple email addresses with a semicolon (;)

Subject

\$agentName \$jobName \$jobType Job \$job:

Enable HTML

☒ Send message as HTML

Body

B I U abc [List Icons] [Link Icon] [Image Icon] [Table Icon] [Fullscreen Icon]

Format (inherited font) (inherited size)

A [Color Picker] [Background Color Picker]

Notification Interval Type: \$notificationIntervalType
Notification Time: \$notificationTime
Notification Day of Month: \$dayOfTheMonth
Notification Day of Week: \$dayOfTheWeek
Agent Name: \$agentName
Group Name: \$groupName
Job Name: \$jobName
Job Status: \$jobStatus
Job Type: \$jobType
Job Started: \$startDateTime

+ Add Cancel

Once a **New Trigger** is added you can **"View"** or **"Delete"** the existing trigger by clicking on the buttons on the right-side of the

screen in the Action column. To **Edit** you can click the **View** button.

The following custom email substitution variables can be used in the subject and body of the notification email.

Variable	Description	Examples
\$notificationIntervalType	The notification interval type name.	Daily Weekly Monthly Immediate
\$notificationTime	The notification time in the format <i>hh:mm:ss tt</i> as specified for a Daily interval.	07:34:55 PM
\$dayOfTheMonth	The notification day of the month as specified for a Monthly interval.	15
\$dayOfTheWeek	The notification day of the week as specified for a Weekly interval.	Sunday
\$agentName	The agent friendly name for which the job was run on.	agent1
\$groupName	The group name of the agent for which the job was run on.	group1
\$jobName	The name of the job that ran.	job1
\$jobStatus	The status of the job at the time of the notification.	Started Successful Failed Stopped Warning
\$jobType	The type of the job.	Backup Restore Copy Import Image Backup Virtual Machine File Level Backup Virtual Machine Replication Backup Virtual Machine File Level Restore
\$startDateTime	The time the job started.	6/15/2016 7:47:34 PM
\$endDateTime	The time the job finished. If the job has not finished yet, the value will be empty.	6/15/2016 7:54:13 PM
\$backupClientVersionNumber	The backup client version number.	18.0.1813.1

Example:

Edit Trigger

Groups

Pending X Example X Accounting X Human Resources X IT X Engineering X Marketing X Sales X Customer Support X

Select All Groups Deselect All Groups

Agents

David X Jeff X Kevin X Nancy X Robert X Ruth X

Select All Agents Deselect All Agents

Job Status

Started X Successful X Failed X Stopped X Warning X

Select All Job Statuses Deselect All Job Statuses

Interval

Immediate

Recipients

admin@example.com

Separate multiple email addresses with a semicolon (;)

Subject

\$agentName \$jobName \$jobType Job \$job:

Enable HTML

☒ Send message as HTML

Body

B I U abc [List Icons] [Link Icon] [Image Icon] [Table Icon] [Code Icon]

Format (inherited font) (inherited size)

A [Color Picker] [Background Color Picker]

Notification Interval Type: \$notificationIntervalType
Notification Time: \$notificationTime
Notification Day of Month: \$dayOfTheMonth
Notification Day of Week: \$dayOfTheWeek
Agent Name: \$agentName
Group Name: \$groupName
Job Name: \$jobName
Job Status: \$jobStatus
Job Type: \$jobType
Job Started: \$startDateTime

Update Cancel

❑ Permissions required

[View Alerts](#)

Edit Alerts

Account Management

To manage the currently logged in user account, click on the username in the navigation menu.

The account management page provides the ability to change the following:

- [Password](#)
- [Time zone](#)
- [Language](#)

Set Password

New users created without a password must set their password from the "Set Password" page using the link provided in the user registration email.

Set password

Set your password.

User name

michael@example.com

Password

Confirm password

☐ Remember me?

Login

After setting their password, they'll be logged in.

If the "Remember me?" check box is checked, a cookie will be created which allows the user to remain logged in for up to 7 days of inactivity by default.

Password

The password for the currently logged in user can be changed from the "Change Password" page.

Change Password

Current password

New password

Confirm new password

Change password

Time Zone

The date and time for the currently logged in user can be changed from the "Time Zone" page.

Time Zone

Automatic

☒ Automatically detect my time zone

Country

United States

▼

Time Zone

Pacific Time

▼

Time Zone Identifier

America/Los_Angeles

Curent Time

4/23/2019 11:28:32 PM

Save Changes

Language and Culture

The format dates, times, and numerals are displayed for the currently logged in user can be changed from the "Language and Culture" page.

Language and Culture

Automatic

☒ Automatically detect my language and culture

Language

English (United States) ▾

Culture

en-US

Calendar

Gregorian

Date Time Pattern

M/d/yyyy h:mm:ss tt

Curent Time

4/23/2019 11:28:39 PM

Number Decimal Separator

.

Number Group Separator

,

Save Changes

Cloud Storage Accounts

The "Cloud Storage Accounts" view allows users to manage their cloud storage accounts.

The administrator must add a [Storage Server](#) in order for users to create cloud storage accounts.

Cloud Storage Accounts

+ Add new cloud storage account

Export to CSV

Username	Last Backup Date	Used Space	Total Storage Space	Quota Status	Quota Percent	Backup Client License Key	Expiration Date	
michael@example.com		1 GB	5 GB	Below Quota	<div><div></div></div> 20%	license key	2/23/2020 4:07:16 PM	<div><div>Connect</div><div>View</div></div>

1

Page 1 of 1

10

items per page

1 - 1 of 1 items

Columns are dynamically displayed depending on the width of the browser window.

The column menus can be used to sort, show and hide columns, and filter the data.

The "Free Space" column is hidden by default.

The "Quota Percent" will turn from blue to orange when the account is near quota, and red when at or over quota. If there's no quota on the account, the percentage bar isn't displayed.

The "Expiration Date" field displays the closest expiration date for the license or its upgrade subscription, if a license key was used to create the account.

The "Days Until Expiration" will start as orange and fill up when there are 45 or less number of days until the license expires, and red when there are 14 or less. If the license doesn't expire, the countdown timer bar is not displayed.

Users can click on the "Export to CSV" button to create a comma-separated values (CSV) file containing the list of cloud storage accounts in all pages, sorted, and filtered as the current view.

The exported CSV file will contain the following columns:

COLUMN NAME	DESCRIPTION
GroupName	The name of the storage server group.
Username	The username in the storage server.
BackupClientLicenseKey	The backup client license key.
LastBackupDate	The date and time of the last backup in UTC.
UsedBytes	The amount of storage space used in bytes.
FreeBytes	The amount of storage space remaining in bytes.
QuotaBytes	The total amount of storage space available in bytes.
Enabled	Indicates whether or not the cloud storage account is enabled.
AccountStatus	The account status. ("Active", "Deleted", or "Pending")
NumberOfComputers	The number of computers.
QuotaStatus	The quota status. ("NONE", "BELOW", "NEAR", "AT", or "OVER")

COLUMN NAME	DESCRIPTION
QuotaPercent	The amount of used space as a percentage of the quota.
ExpirationDate	The backup client license's expiration date in UTC.
DaysUntilExpiration	The number of days until the backup client license's expiration date.
LicenseStatus	The status of the license in the storage server. ("Normal" or "Evaluation")

 **Permissions required**

[View Cloud Storage Accounts](#)

Create an account

From the "Cloud Storage Accounts" view, click on the "Add new cloud storage account" button to create a new cloud storage account.

Enter a username, password, and click the "Save" button to create a new cloud storage account.

Create new cloud storage account


Username

melissa@example.com

Password

••••••••

Confirm Password

•••••••• 

☒ I accept the [Terms and Conditions](#)

Save

The username must be unique.

A new "Cloud Storage" device will automatically be added to the backup client when the user signs up inside the embedded web browser of the backup client, or re-connects to an existing cloud storage account.

When re-connecting to an existing cloud storage account, the user will be asked for their cloud storage account password if it's different then their user account password.

A backup client license key may be required to create a cloud storage account.

Create new cloud storage account

Username

michael@example.com


Password

••••••••

Confirm Password

••••••••

Backup Client License Key

license key 

☒ I accept the [Terms and Conditions](#)

Save

In this case, if the backup client license is disabled, expired, doesn't support cloud storage, or if it has an expired upgrade subscription, it can't be used to create a cloud storage account.

The backup client license key will be automatically populated if the user is signing up inside the embedded web browser of the backup client.

[Permissions required](#)

Edit Cloud Storage Accounts

Terms and Conditions


Acceptance of the terms and conditions may be required.

The "Terms and Conditions" hyperlink will open a new window.

The new window displays the Terms and Conditions with options to print and save as a file in a different format.

The terms and conditions can be exported as a Microsoft Office Open XML Format word processing document (DOCX), Rich Text Format (RTF), Adobe Portable Document Format (PDF), HyperText Markup Language (HTML), and plain text (txt).

Terms and Conditions

 Export As ▾

Sample Terms and Conditions ("Terms")

Last updated: October 25, 2019

Please read these Terms and Conditions ("Terms", "Terms and Conditions") carefully before using the "Service" operated by your Service Provider ("us", "we", or "our").

Your access to and use of the Service is conditioned on your acceptance of and compliance with these Terms. These Terms apply to all visitors, users and others who access or use the Service.

By accessing or using the Service you agree to be bound by these Terms. If you disagree with any part of the terms then you may not access the Service.

Close

Related topics:

[Add a storage server](#)

[User registration and creating a cloud storage account in one step](#)

Connect to an account

The embedded web browser dialog from within the backup client must be used in order to successfully connect to a cloud storage account.

The embedded web browser dialog can be launched from either the "Home" or the "Device" tabs.

From the "Home" tab, click on the "Cloud Backup" button.

From the "Device" tab, click on the "Click HERE to add an online device" list item.


If a cloud storage account has already been added, the web browser dialog will not be displayed.

[Permissions required](#)

[View Cloud Storage Accounts](#)

View details of an account

From the "Cloud Storage Accounts" view, click on the "View" button next to the cloud storage account to view its details.

 **Cloud device**

[Connect](#) [Refresh](#) [Edit](#) [View computers](#) [Delete](#)

Username melissa@example.com

Status Active

Enabled Yes

License Normal

Used space 0 B

Free space 200 MB

Total storage space 200 MB

Quota status Below Quota

Quota 0%

Maximum number of computers 1

Group melissa@example.com

Quota type Custom

Near quota 90%

Near quota action Report Warning

At quota action Warning Window


Over quota 110%

Over quota action Disable Backup

Restore window 1 month

Allow data access using master key Yes

If a cloud storage account has a license key, it's also displayed.

 **Cloud device**

[Connect](#) [Refresh](#) [Edit](#) [View computers](#) [Delete](#)

Username michael@example.com

Backup client license key license key [🔗](#)

Expiration date 2/2/2020 9:06:17 PM

Days until expiration 45

Status Active

Enabled Yes

License Normal

Used space 1 GB

Free space 4 GB

Total storage space 5 GB

Quota status Below Quota

Quota 20%

Maximum number of computers 1

Group michael@example.com

Quota type Custom

Near quota 90%

Near quota action Report Warning

At quota action Warning Window

Over quota 110%

Over quota action Disable Backup

Restore window 1 month

Allow data access using master key Yes

The administrator has the ability to view more details on the account.

Cloud device

 Connect

 Refresh

 Edit

 View computers

 Delete

Username	melissa@example.com
Status	Active
Enabled	Yes
License	Normal
Used space	0 B
Free space	200 MB
Total storage space	200 MB
Quota status	Below Quota
Quota	0%
Maximum number of computers	1
Group	melissa@example.com
Quota type	Custom
Near quota	90%
Near quota action	Report Warning
At quota action	Warning Window
Over quota	110%
Over quota action	Disable Backup
Restore window	1 month
Allow data access using master key	Yes
Primary storage	C:\UserData
Restrict backups to primary storage	Yes
User data directory name	melissa@example.com

The administrator doesn't have the ability to connect to a cloud storage account of another user.

[Permissions required](#)

[View Cloud Storage Accounts](#)

View computers

From the cloud storage account details view, click on the "View computers" button to view the computers attached to the cloud storage account.

Cloud Storage Account Computers

Computer Name	Created	Modified	
WINDOWS-PC	4/23/2019 11:29:54 PM	4/23/2019 11:29:54 PM	<div>Delete</div>
WINDOWS-LAPTOP	4/23/2019 11:29:55 PM	4/23/2019 11:29:55 PM	<div>Delete</div>

0

Page 0 of 0

10

items per page

No items to display

Permissions required

View Cloud Storage Accounts

Edit cloud storage account

From the cloud storage account details view, click on the "Edit" button.

The editable fields depend on whether or not a license key is required and also the role of the logged in user.

License key is required


If a license key is required for the cloud storage account, only the license key and restore window can be modified. This is because the quota and the number of computers are retrieved from the license server.

Edit cloud storage account

Username

michael@example.com

License Key

license key 

Status

Active

Enabled

Yes

License

Normal

Number of computers



1

Group


michael@example.com

Restore window length


1




Restore window type

Months 

Computers

 Manage computers






Password

 Change password

Save

The administrator can also modify the "License status", storage server group, master key access, primary storage, and user data directory fields of the cloud storage account.













Edit cloud storage account

Username	michael@example.com
License Key	license key 
Status	Active
Enabled	Yes
License	<div>Normal ▼</div>
Number of computers	1
Group	<div>michael@example.... ▼</div>
Restore window length	<div>1  </div>
Restore window type	<div>Months ▼</div>
	<input checked="" type="checkbox"/> Allow data access using master key
Primary storage	<div>C:\UserData ▼</div>
	<input checked="" type="checkbox"/> Restrict backups to primary storage
User data directory name	<div>michael@example.com</div>
Computers	<div> Manage computers</div>
Password	<div> Change password</div>
	<div>Save</div>

License key not required



If a license key is not required for the cloud storage account, the number of computers, quota, and restore window fields can be modified.

Edit cloud storage account

Username	melissa@example.com
Status	Active
Enabled	Yes
License	Normal
Number of computers	<input type="text" value="1"/>  
Group	melissa@example.com
Quota type	<input type="text" value="Custom"/> ▼
Quota (megabytes)	<input type="text" value="200"/>  
Near quota percent	<input type="text" value="90"/>  
Near quota action	<input type="text" value="Report Warning"/> ▼
At quota action	<input type="text" value="Warning Window"/> ▼
Over quota percent	<input type="text" value="110"/>  
Over quota action	<input type="text" value="Disable Backup"/> ▼
Restore window length	<input type="text" value="1"/>  
Restore window type	<input type="text" value="Months"/> ▼
Computers	 <input type="text" value="Manage computers"/>
Password	 <input type="text" value="Change password"/>
<input type="button" value="Save"/>	

The administrator can also modify the "Account status", "Enabled", "License status", storage server group, master key access, primary storage, and user data directory fields of the cloud storage account.

Edit cloud storage account

Username	melissa@example.com	
Status	<div>Active</div>	
	<input checked="" type="checkbox"/> Enabled	
License	<div>Normal</div>	
Number of computers	<div>1</div>	
Group	<div>melissa@example....</div>	
Quota type	<div>Custom</div>	
Quota (megabytes)	<div>200</div>	
Near quota percent	<div>90</div>	
Near quota action	<div>Report Warning</div>	
At quota action	<div>Warning Window</div>	
Over quota percent	<div>110</div>	
Over quota action	<div>Disable Backup</div>	
Restore window length	<div>1</div>	
Restore window type	<div>Months</div>	
	<input checked="" type="checkbox"/> Allow data access using master key	
Primary storage	<div>C:\UserData</div>	
	<input checked="" type="checkbox"/> Restrict backups to primary storage	
User data directory name	<div>melissa@example.com</div>	
Computers	<div> Manage computers</div>	
Password	<div> Change password</div>	
	<div>Save</div>	






[Permissions required](#)

Edit Cloud Storage Accounts

Change the password

From the cloud storage account details view, click on the "Edit" button.

Edit cloud storage account

Username	michael@example.com
License Key	license key 
Status	Active
Enabled	Yes
License	Normal
Number of computers	1
Group	michael@example.com
Restore window length	<div><div>1</div><div> </div></div>
Restore window type	<div>Months ▼</div>
Computers	<div> Manage computers</div>
Password	<div> Change password</div>

Save

Click on the "Change password" button.

Enter the current cloud storage account password, the new cloud storage account password, and click on "Save" to continue.

Change cloud storage account password

Current Password

New Password

Confirm Password

Save

❑ Permissions required






Edit Cloud Storage Accounts

Change the license key

The backup client license key can be changed only if one was used to create the cloud storage account.

From the cloud storage account details view, click on the "Edit" button.

Edit cloud storage account

Username	michael@example.com
License Key	license key 
Status	Active
Enabled	Yes
License	Normal
Number of computers	1
Group	michael@example.com
Restore window length	<div><div>1</div><div> </div></div>
Restore window type	<div>Months ▼</div>
Computers	<div> Manage computers</div>
Password	<div> Change password</div>

Save

Click on the "Edit" icon next to the "License Key" field.

The "Edit" icon will not be displayed if a license key wasn't used to create the cloud storage account.

Enter the new backup client license key and click on "Save" to change the license key associated with the cloud storage account.

If the backup client license is disabled, expired, doesn't support cloud storage, or if it has an expired upgrade subscription, it can't be used as the new license key.

Change license key

Username michael@example.com

Backup Client License Key

❑ Permissions required

Edit Cloud Storage Accounts

Delete an account

To permanently delete your cloud storage account, and its associated data, from the cloud storage account details view, click on the "Delete" button.

The following page will allow you to confirm its deletion.

You will not be able to restore any data associated with the account after deleting it.

Are you sure you want to delete this cloud storage account?

Username

Backup Client License Key

michael@example.com

license key

Delete

❑ Permissions required

Edit Cloud Storage Accounts

Delete a computer

To permanently delete a computer attached to the cloud storage account, and its associated data, from the "Cloud Storage Account Computers" view, click on the "Delete" button next to the computer. The following page will allow you to confirm its deletion.

You will not be able to restore any data associated with the computer after deleting it.

Are you sure you want to delete this computer?

Computer Name

WINDOWS-PC

Delete

Permissions required

Edit Cloud Storage Accounts

Storage Server

The "Storage Server" view allows an administrator to view NovaBACKUP xSP Storage Server groups and users.

The administrator must first add a [Storage Server](#).

localhost

Export to CSV

Name	Description	Number Of Computers	Used Space	
Accounting	Accounting Department	1	829.85 MB	View
Administrators	Administrators	1	0 B	View
Engineering	Engineering Department	0	0 B	View
Everyone	All Users	0	0 B	View
Human Resources	Human Resources Department	1	3.73 GB	View
IT	IT Department	1	8.75 GB	View
Marketing	Marketing Department	1	6.91 GB	View
Sales	Sales Department	2	9.17 GB	View

User Name	Number Of Computers	Used Space
David	1	6.9 GB
Jeff	1	2.27 GB

Page 1 of 110 items per page1 - 2 of 2 items

Page 1 of 110 items per page1 - 8 of 8 items

The column menus can be used to sort, show and hide columns, and filter the data.

The "Status", "Quota Setting", "Quota", "Number Of Users", and "Used Gigabytes" columns are hidden by default.

Users can click on the "Export to CSV" button to create a comma-separated values (CSV) file containing the list of all storage server groups without users.

The exported CSV file will contain the following columns:

COLUMN NAME	DESCRIPTION
Name	The name of the storage server group.
Description	The description of the storage server group.
NumberOfUsers	The number of users in the storage server group.
NumberOfComputers	The total number of computers in the storage server group.
UsedGigabytes	The amount of storage space used in gigabytes.

Permissions required

View Storage Servers

Edit Storage Servers

Settings

Security

Agent

Notification

Users

User Registration Settings

Roles

Storage Servers

Web Hook

Update

Application

Agent Settings

The Agent Settings page allows you to configure the timeout and ping interval for agent connections. It also allows you to configure the maximum number of logs per agent and the time old logs are purged from the database.

Agent Settings

Agent Connections

Agent connection timeout (minutes)

30

Agent connection ping interval (minutes)

15

Agent Logs

☒ Delete logs that exceed the maximum number per agent

100

☒ Delete logs that exceed the maximum number of days

60

Save Changes

[Permissions required](#)

[View Settings](#)

[Edit Settings](#)

Security Settings

The "Security Settings" view allows an administrator to ignore SSL certificate errors.

Ignoring SSL certificate errors is not recommend.

Security Settings

☐ Ignore SSL Certificate Errors

Save

[Permissions required](#)

View Settings

Edit Settings

Notification Settings

To configure how the **Notification e-mails** are sent you, click on the "**Notification**" menu item under the "**Settings**" menu item. Notification e-mails are delivered **by default** via the built-in "NovaBACKUP Alerts" SMTP service.

Notification Settings

Email Server

Type

NovaBACKUP Alerts ▾

Server Address

Server Port

25 ▴ ▾

Enable SSL

☐

Enable Authentication

☐

User Name

Password

Retry Count

5 ▴ ▾

Timeout (Seconds)

30 ▴ ▾

Sender Name

NovaBACKUP Alerts

Sender Email Address

noreply@novastor.com

Save Changes

Test Email Address Recipients

To

Separate multiple email addresses with a semicolon (;).

Send Test Email

You can also configure CMon to send Notifications using a "**Custom SMTP**" server. Make sure to fill in all of the details that are prompted for. Once the prompts are filled in click the "**Test Email Settings**" button to verify all of the settings are correct prior to saving, otherwise your Notification e-mails will fail.

Notification Settings

Email Server

Type

Custom SMTP ▾

Server Address

smtp.example.com

Server Port

587 ▴ ▾

Enable SSL

☒

Enable Authentication

☒

User Name

backup@example.com

Password

••••••••

Retry Count

5 ▴ ▾

Timeout (Seconds)

30 ▴ ▾

Sender Name

NovaBACKUP Alerts

Sender Email Address

backup@example.com ✕

Save Changes

Test Email Address Recipients

To

Separate multiple email addresses with a semicolon (;).

Send Test Email

[Permissions required](#)

[View Settings](#)

[Edit Settings](#)

Users

The "**Users**" page is where you can set up CMon to work with more than just the single built-in "admin" account. Once on the "**Users**" page you have the ability to add users by clicking on the "**Add new user**" button. Custom Roles can be created for users via the "**Roles**" page.

The column menus can be used to sort, show and hide columns, and filter the data.

The "Storage Server Group" column is hidden by default.

Users

+ Add new user

User Name ↑	Email Address	Description	Role	Enabled	
admin		Built-in Administrator	Administrator	true	<div>View</div>

1

Page 1 of 1

10

items per page

1 - 1 of 1 items

[Permissions required](#)

View Users

Edit Users

User registration

From the "Log in" view, click on the "Register" button to register for a new account.

Enter a username, password, email address, and click the "Register" button to continue.

Register

Create a new account.

User name

Email

Password

Confirm password

Register

The username must be unique.

Related topics:

[User registration settings](#)

[User registration and creating a cloud storage account in one step](#)

User registration and creating a cloud storage account in one step

When using the embedded web browser dialog from within the backup client, clicking on the "Register" button from the "Log in" view displays a page allowing you to register for a new account and create a cloud storage account in one step.

Register

Create a new account.

User name

melissa@example.com

Email

melissa@example.com

Password

••••••••

Confirm Password

••••••••

Backup Client License Key

license key ×

☒ I accept the [Terms and Conditions](#)

Register

Related topics:

[User registration settings](#)

[User registration](#)

[Add a storage server](#)

[Create a cloud storage account](#)

Create a user

From the "Users" view, click on the "Add new user" button to create a new user.

Enter a username, password, email address, select the user's role, and click the "Next" button to continue.

The username must be unique.

If a password is not specified, then the "User must set or change password at first login" and "Send registration email" check boxes must be checked.

If a password is not specified, the user registration email will contain a link to the [Set Password](#) page, by default, to allow them to set their password.

The set password link contains a randomly generated token that expires after 30 days.

If a [Storage Server](#) was added by the administrator, the option to create a storage server group when creating a user will be displayed.

If the "Create Storage Server Group for this user" check box is checked in the storage server settings, a storage server group is created when this user is created.

The storage server group name, derived from the username, must be unique.

Create new user

User Name

michael@example.com

☐

User must set or change password at first login

A password is optional if it must be set at first login.

Password

••••••••

Confirm Password

••••••••

Email Address

michael@example.com

×

☒

Send registration email now

⚙

Role

User

▼

⚙

☒

Create storage server group for this user

Storage Server Group

michael@example.com

Next

Save

Select the groups the user is authorized to manage and click the "Save" button to create the user.

Create new user

Select the groups the user is authorized to manage

<input type="checkbox"/>	Name ↑	⌵
<input type="checkbox"/>	Accounting	
<input type="checkbox"/>	Customer Support	
<input type="checkbox"/>	Engineering	
<input type="checkbox"/>	Example	
<input type="checkbox"/>	Human Resources	
<input type="checkbox"/>	IT	
<input type="checkbox"/>	Marketing	
<input type="checkbox"/>	Pending	
<input type="checkbox"/>	Sales	
<div><div>⏪⏩</div><div><div>1</div><div>1</div></div><div>of 1</div><div>▶⏭</div><div><div>10</div><div>▼</div></div><div>items per page</div><div>↺</div></div>		

Back

Save

[Permissions required](#)

Edit Users

View a user

From the "Users" view, click on the "View" button to view the details of a user.

michael@example.com

UserGroups

User Name

michael@example.com

Email Address

michael@example.com

Role

User

☒ Enabled

☐ Locked Out

Storage Server Group

michael@example.com

Edit

Delete

Permissions required

View Users

Edit a user

From the "User Details" view, click on the "Edit" button to edit the user.

Edit User

User

Groups

User Name

michael@example.com

×

Password

Change Password

Email Address

michael@example.com

Role

User

▼

Description

☒ Enabled

☐ Locked Out

Storage Server Group

michael@example.com

▼

Save

Click on the Groups tab to modify the groups the user is authorized to manage.

Edit User

User

Groups

Select the groups the user is authorized to manage.

<input type="checkbox"/>	Name ↑	
<input type="checkbox"/>	Accounting	
<input type="checkbox"/>	Customer Support	
<input type="checkbox"/>	Engineering	
<input type="checkbox"/>	Example	
<input type="checkbox"/>	Human Resources	
<input type="checkbox"/>	IT	
<input type="checkbox"/>	Marketing	
<input type="checkbox"/>	Pending	
<input type="checkbox"/>	Sales	

1

1

of 1

10

items per page

Save

Click on the "Save" button to save the changes made to the user.

[Permissions required](#)

Edit Users

Delete a user

From the "User Details" view, click on the "Delete" button to delete the user.

Are you sure you want to delete this user?

User Name

michael@example.com

Email Address

michael@example.com

Role

User

Storage Server Group

michael@example.com

☐ Delete Storage Server Group

Delete

Check mark the "Delete Storage Server Group" check box to delete the storage server group associated with the user when deleting the user.

Click on the "Delete" button again to confirm deleting the user.

The default storage server group cannot be deleted.

The storage server group cannot be deleted if it's associated with other users.

The storage server group cannot be deleted if it's being used with one or more cloud storage accounts.

[Permissions required](#)

Edit Users

User Registration Settings

The "User Registration Settings" view allows an administrator to enable or disable user registrations and configure the user registration email template.

[illegible]

Notification Email

The user registration notification email subject and body are templates that use markup to output text based on conditions and variables.

❑ Permissions required

View Settings

Edit Settings

Syntax

Introduction

TYPE	DESCRIPTION
Objects	Objects produce content. Object names are denoted by double curly braces: {{ and }}.
Tags	Tags create the logic and control flow for templates. They are denoted by curly braces and percent signs: {% and %}. The markup used in tags does not produce any visible text.

Control flow

SYNTAX	DESCRIPTION
if	Executes a block of code only if a certain condition is true.
elseif / else	Adds more conditions within an if block.
endif	Indicates the end of an if control block.

Operators

SYNTAX	DESCRIPTION
==	equals
!=	does not equal
>	greater than
<	less than
>=	greater than or equal to
<=	less than or equal to
or	logical or
and	logical and

Built-in objects

OBJECT NAME	DESCRIPTION
user.Name	The user's username.
user.Email	The user's email address.
user.Password	The user's password. Putting a password in plain text in an email isn't recommended.
SetPasswordToken	The token used to set the user's password.
SetPasswordUrl	The URL of the page which allows the user to set their password.
LoginUrl	The URL of the login page.

Related topics:

[User registration](#)

Roles

The "Roles" page contains the ability to create and edit Roles. Once on the **Roles** page you can click on "Add new role" button to add new rolws. From there you will be able to define a custom role.

Roles

+ Add new role

Name ↑	Default	Description	
Administrator	false	Administrator	<div>View</div>
Backup Auditor	false	Monitors backup and restore operation status	<div>View</div>
Backup Operator	false	Creates/Schedules/Performs backup and restore operations	<div>View</div>
Backup Support	false	Assists with backup and restore operations	<div>View</div>
User	true	The default user role	<div>View</div>

1

1

 of 1

10

 items per page

1 - 5 of 5 items

Permissions required

View Roles

Edit Roles

Storage Servers

The "Storage Servers" view allows an administrator to manage NovaBACKUP xSP Storage Servers.

In order for users to create cloud storage accounts, a Storage Server must be added.

 **Permissions required**

[View Storage Servers](#)

[Edit Storage Servers](#)

Add a storage server

From the "Storage Servers" view, click on the "Add new storage server" button to add a new storage server.

Enter the web URL and key for the Storage Server API and click the Next button to continue.

The storage server API is an optional feature installed with the NovaBACKUP Storage Server by default.

It's recommended to use HTTPS for a secure connection.

If a secure connection could not be established because of SSL certificate errors, the errors can be ignored in [Security Settings](#), but this is not recommended.

The API key is configured in the storage server API's "appSettings.config" file and is case sensitive.

A randomly generated API key is created by default.


Create new storage server

Enter the storage server API connection settings.

API URL

https://localhost/BackupServer

API Key

..... 

Back

Next

Enter the storage server address and port and click the "Next" button to continue.


The storage server address should be publicly resolvable by the backup client.

The storage server port is the port the backup server is configured to listening on.



Create new storage server

Enter the storage server address and port.

Server address

localhost 

Server port

308 


Back

Next

Enter the storage server group settings and click the "Next" button to continue.

If the "Create storage server group for each user" check box is checked:

1. A new storage server group is created for new CMon users.
2. The name of the storage server group will be the same as the username of the CMon user.
3. New cloud storage accounts created for new CMon users will be assigned that storage server group.
4. The group status and quota settings will be used for the new storage server group.

Create new storage server

Enter the storage server group settings.

☒ Create storage server group for each user

Group status

Active ▼

Group quota setting

Off ▼

Back

Next

Enter the storage server account settings and click the "Next" button to continue.

When the user is required to enter a backup client license key and the "Account Quota Setting" field is set to "Custom", the user account's quota will be set according to the quota specified for the backup client license key provided when the user signs up for an account.

Otherwise, the "Account Quota (Megabytes)" field must be specified if the user is not required to enter a backup client license key and the "Account Quota Setting" field is set to "Custom".

If a backup client license is used with a data storage quota greater than 2,147,483 GB, then the data storage quota on the cloud storage account will be limited to 2,147,483,647 MB.

When the "Account Quota Setting" field is set to "Group", the user account's quota will be set according to the quota specified for the storage server group specified in the previous step.

When the "Account Quota Setting" field is set to "No Quota", the user's account will have an unlimited amount of storage space.

The number of computers that can be backed up to the cloud storage account will be based on the maximum number of activations set on the backup client license used to create the account.

If a backup client license is used with a maximum number of activations greater than 5000, then the number of computers on the cloud storage account will be limited to 5000.

If the user is not required to enter a backup client license key, then the "Number of computers" must be specified if the "Multiple computers allowed" checkbox is checked.

The storage server help documentation contains more details about the other settings.

Create new storage server

Enter the storage server account settings.

☒ **Enabled**

☒ **User is required to enter a backup client license key**

Account status

Active

Account license

Normal

Number of computers

1

Account quota setting

Custom

Account near quota percent

90

Account near quota action

Report Warning

Account at quota action

Warning Window

Account over quota percent

110

Account over quota action

Disable Backup

Back

Next

Enter the storage server account data storage and retention policy settings and click the "Next" button to continue.

If the cloud storage account was created with a backup client license key, the account will automatically be disabled if the backup client license is disabled, expired, no longer supports cloud storage, or if the upgrade subscription is expired.

The cloud storage account will automatically be re-enabled if the license and upgrade subscription, if any, become valid again.

An account can also be disabled from the storage server directly.

After an account is disabled, the user will not be able to connect to the storage server.

If the "Delete account after a grace period since the account was disabled" check box is checked, the account will be deleted after the specified grace period since the account was disabled.

Create new storage server

Enter the storage server account data storage and retention policy settings.

☐ Allow data access using master key

Primary storage

C:\UserData

☐ Restrict backups to primary storage

Restore window length

1

Restore window type

Months

☒ Delete account after a grace period since the account was disabled

Grace period (in days)
before account is
deleted

60

Back

Next

Optionally enable displaying the terms and conditions and click the "Save" button to continue.

If enabled, the user must accept the terms and conditions before a cloud storage account is created.

The Import button can be used to insert a Microsoft Office Open XML Format word processing document (DOCX), Rich Text Format (RTF), Adobe Portable Document Format (PDF), HyperText Markup Language (HTML), and plain text (txt) file into the terms and conditions editor.

For more details on how the terms and conditions is displayed, see [Terms and Conditions](#).

Create new storage server

Enter the storage server account data storage and retention policy settings.

☒ Display terms and conditions

Terms and conditions

abc

x_z

x^2

Format

(inherited font)

(inherited size)

A

Sample Terms and Conditions ("Terms")

Last updated: October 25, 2019

Please read these Terms and Conditions ("Terms", "Terms and Conditions") carefully before using the "Service" operated by your Service Provider ("us",





Back

Save

After creating the storage server, it will be displayed in the data grid.

Storage Servers

+ Add new storage server

Address 	Port 	API URL 	
localhost	308	https://localhost/BackupServer	<div> View</div>

1

Page 1 of 1

10 items per page

1 - 1 of 1 items

Only one storage server is supported.

The CMon will periodically query the license for any changes and update the xSP account accordingly.

[Permissions required](#)

Edit Storage Servers

Related topics:

[Create a cloud storage account](#)

Web Hook Settings

The `Web Hook Settings` page allows a user to view and modify the current web hook settings.

The web hook receiver is used to receive notifications from the License Server when a license has been updated. When a notification has been received, the cloud storage account associated with that license will be updated.

The web hook receiver secret key is required and must have a minimum of 32 and a maximum of 256 characters.

The web hook receiver secret key must not contain commas, equals signs, and leading or trailing spaces.

The secret key is used to verify that the caller is authorized to send requests.

The web hook receiver must be accessible using HTTPS for it to accept requests.

The web hook URL displayed is built based on the URL of the current page and may not be accurate depending on the hosting environment.

Web Hook Settings

*Changing these settings will not take affect until the web application is restarted.
You can restart the web application [on this page](#).*

☒ **Enable Web Hook Receiver**

Web Hook Receiver Secret Key

.....

Web Hook URL

<https://localhost/ManagementServer.Web/api/webhooks/incoming/webhook>

Save

The web hook receiver also restricts access depending on the IP address of the caller.

See [IP Filter Configuration](#) for more information.

[Permissions required](#)

[View Settings](#)

[Edit Settings](#)

Update Settings

The "Update Settings" view allows an administrator to enable or disable automatically checking for updates.

It's recommend to enable automatically checking for updates to automatically receive notifications when a new update is available.

If enabled, the "Management Server" windows service automatically checks for updates every 7 days.

Update Settings

☒ Automatically Check For Updates

Save

[Permissions required](#)


[View Settings](#)

[Edit Settings](#)

Application Settings

The `Application Settings` page allows a user to restart the web application.

Application Settings

 *Restarting the web application will expire all user sessions, and connected users may be logged off.*

Restart web application now

[Permissions required](#)

[Edit Settings](#)

Server Administration Desktop Application

The CMon Server Administration utility is a desktop application installed on the local server where CMon is installed.

A shortcut is created in the Start menu called "NovaBACKUP CMon Server Administration".

It allows you to change the CMon server address and port number and unlock user accounts.

Scheduled Task

A scheduled task named "NovaBACKUPManagementServer" is created in the Windows Task Scheduler that's responsible for sending notifications and deleting old job logs as configured in the settings.

The task does not delete job logs which have unsent notifications.

The configuration file contains a setting for the database command timeout.

The file is located in the Web installation directory. For example,

```
C:\Program Files (x86)\NovaStor\NovaBACKUP Central Management  
Console\ScheduledTask\ManagementServer.Service.ScheduledTask.Console.exe.config
```

Database Command Timeout

The default value is 0 which prevents the command from timing out. An empty value will instruct the application to use the default database provider's timeout value.

```
<appSettings>  
  <add key="DatabaseCommandTimeout" value="0"/>  
</appSettings>
```

Web Configuration File

The web configuration file (web.config) contains some of the application settings such as the database connection string, log file path, log verbosity, and persistent login behavior.

The file is located in the Web installation directory. For example,

```
C:\Program Files (x86)\NovaStor\NovaBACKUP Central Management Console\WebRoot\Web\web.config
```

Persistent login settings

When a user chooses to login and persist their login information, the default behavior is to keep them logged in for 7 days since they last visited the web application.

```
<authentication mode="Forms">
  <!-- forms session times out in 7 days -->
  <forms loginUrl="~/Account/Login" slidingExpiration="true" path="/" name="ManagementServer" timeout="10080"
  protection="All"/>
</authentication>
```

For more technical information about these configuration settings, see [forms Element for authentication \(ASP.NET Settings Schema\)](#).

IP Filter Configuration File

The web hook receiver restricts access depending on the IP address of the caller.

These restrictions are specified in the `IPFilter.config` file in the web application installation directory.

Default File Path

32-bit Operating System

```
C:\Program Files\NovaStor\NovaBACKUP Central Management Console\WebRoot\Web\IPFilter.config.
```

64-bit Operating System

```
C:\Program Files (x86)\NovaStor\NovaBACKUP Central Management Console\WebRoot\Web\IPFilter.config.
```

Syntax

No more than two hosts can be specified in an `<allow />` element because the hosts attribute signifies either one IP address or a range of IP addresses.

Examples

One IP Address

```
<allow hosts="198.51.100.0" />
```

A Range of IP Addresses

```
<allow hosts="198.51.100.0,198.51.100.255" />
```

Help

[Documentation](#)

[About](#)

[Known Issues](#)

[Troubleshooting Tips](#)

[Windows Service Logging](#)

[Standalone Web Server Logging](#)

[Web Site Logging](#)

[Scheduled Task Logging](#)

Help Documentation

The Help Documentation link opens a new window to display the Central Monitoring Console (CMon) User Manual in a web browser.

A download link is provided on the bottom of each page to download a PDF version.

You can also send us feedback by clicking the email link on the bottom.

About

The About page displays product version information about CMon for logged in users.

About



NovaStor NovaBACKUP CMon


Product Version: 19.99.0.0

Last Modified Date: 4/13/2020 10:51:43 AM

Database Schema Version: 19.5.1414.0

Client Browser: Mozilla/5.0 (Windows NT 10.0; WOW64; Trident/7.0; Touch; .NET4.0C; .NET4.0E; .NET CLR 2.0.50727; .NET CLR 3.0.30729; .NET CLR 3.5.30729; Tablet PC 2.0; rv:11.0) like Gecko

Logged in users in a role with "View Settings" permission can also manually check for product updates on this page.



CMon can be configured to automatically check for product updates in the [Update Settings page](#).

If an update is available, a notification is displayed on all pages, except the About page, for logged in users in a role with "View Settings" permission.

An update is available.

More information

The product update notification contains a "More Information" button, which redirects them to the About page.

If a product update is available, the About page will display information about the new version:

- The new version number.
- The released date of the new version.
- Links to "Download now" and "Learn more" if available.
- The last time a check for updates was performed.
- A "Remind me later" button which will snooze the product update notification for 24 hours.
- The next time the product update notification will appear if the "Remind me later" button was clicked.
- A "Skip this update" button which will dismiss/skip the product update notification, specifically for the new version.

If the "Skip this update" button was clicked and a version is available that's newer than the version that was previous skipped, then the product update notification will re-appear.

A product update is available.

Management Server v99.99.0.0


Released: 7/3/2019 5:00:00 PM

Download now

Learn more

Remind me later

Skip this update



If no updates are available, the About page displays the message, "The latest version is already installed".

If there's more than one update available, the About page will only display the latest version.

If the "Skip this update" button was clicked, and then the "Remind me later" button is clicked, the product update notification will re-appear after 24 hours.

 [Permissions required](#)

[View Settings](#)

Known Issues

- Retention and Import jobs are not monitored/reported
- When using CMon over HTTP, usernames and passwords are sent in plain text
- It is recommended to use SSL/HTTPS for security reasons.
- Some inputs are not validated for maximum lengths.

Troubleshooting Tips

The Management Service may not be started.

The Management Service must be started to be accessible. Run the Services control panel and start the "Management Service" windows service. If it fails to start, see [Windows Service Logging](#) for troubleshooting.

The Web Server may not be started.

The Web Server must be started to be accessible. Depending on which web server hosts the console application, run the Services control panel and start the appropriate windows service:

- If using the standalone web server, start the "Management Web Server" windows service. If it fails to start, see [Standalone Web Server Logging](#) for troubleshooting.
- If using Internet Information Services (IIS), start the "World Wide Web Publishing Service" windows service.

A firewall may be blocking one or more required ports.

If the Management Service is behind a firewall, make sure its configured port is open. The port number was specified during installation and saved in the "Management Server" windows service "system.serviceModel.services.config" configuration file. You can launch the Server Administration utility to quickly view and optionally edit the port number. The Management Service uses the TCP protocol.

If the web server is behind a firewall, make sure its configured port is open. The port number may have been specified during installation and saved in the main "Management Web Server" windows service configuration file if the standalone web server was selected.

The Management Service address may be incorrect.

The Management Service address must be configured correctly to be accessible. The server address was specified during installation and saved in the "Management Server" windows service "system.serviceModel.services.config" configuration file. You can launch the Server Administration utility to quickly view and optionally edit the server address.

Log Files

The best way to determine the underlying cause of issues is to analyze the logs.

The application configuration files contain settings that may need to be modified in order to enable logging.

These application configuration files can be edited in a simple text editor (ex. notepad).

After you are done troubleshooting, remember to revert your changes.

[Windows Service Logging](#)

[Standalone Web Server Logging](#)

[Web Site Logging](#)

[Scheduled Task Logging](#)

Windows Service Logging

Windows Service Configuration File

The "Management Server" windows service configuration file with a default installation is located here: "C:\Program Files\NovaStor\NovaBACKUP Central Management Console\Service\ManagementServer.Service.WindowsServiceHost.exe.config"

When this file is modified, the internal services will automatically restart and use the latest changes.

If the configuration file contains errors, the windows service will not start.

If the windows service is already started, it will automatically stop.

Log File Location

With a default installation, the log files are located here: "C:\Program Files\NovaStor\NovaBACKUP Central Management Console\Service\Logs"

How to enable logging for the "Management Server" windows service

Open the main "Management Server" windows service configuration file, unless otherwise specified, perform the steps outlined below, and then save the file. This generates a fairly large amount of trace data in the Logs directory.

Enable Log Listeners

Enable logging to the Application Event Log and a Flat File.

Change this: **XML**

```
<configuration>
...
<loggingConfiguration ...>
...
<categorySources>
  <add switchValue="All" name="General" />
</categorySources>
...
```

to: **XML**

```
<configuration>
...
<loggingConfiguration ...>
...
<categorySources>
  <add switchValue="All" name="General" >
    <listeners>
      <add name="Event Log Listener" />
      <add name="Flat File Trace Listener" />
    </listeners>
  </add>
</categorySources>
...
```

Errors will now be logged in the trace.log file in the Logs directory by default.

Enable WCF Verbose Activity Tracing

For communication issues bet, Set the switchValue attributes to Verbose, ActivityTracing.

Change this: **XML**

```
<configuration>
...
<system.diagnostics>
  <sources>
    <source name="System.ServiceModel" switchValue="Warning" propagateActivity="true">
      ...
    <source name="System.ServiceModel.MessageLogging" switchValue="Warning">
      ...
  </sources>
</system.diagnostics>
</configuration>
```

to: **XML**

```
<configuration>
...
<system.diagnostics>
  <sources>
    <source name="System.ServiceModel" switchValue="Verbose, ActivityTracing" propagateActivity="true">
      ...
    <source name="System.ServiceModel.MessageLogging" switchValue="Verbose, ActivityTracing">
      ...
  </sources>
</system.diagnostics>
</configuration>
```

Errors will now be logged in app_tracelog.svclog and app_messages.svclog files in the Logs directory by default.

Enable Message Logging

Open "system.serviceModel.diagnostics.config" and enable logMessagesAtServiceLevel, logMalformedMessages, and logMessagesAtTransportLevel.

Change this: **XML**

```
<configuration>
...
<system.serviceModel>
  ...
  <diagnostics>
    <messageLogging logMessagesAtServiceLevel="false" logMalformedMessages="false"
logMessagesAtTransportLevel="false" />
  </diagnostics>
</system.serviceModel>
</configuration>
```

to: **XML**

```
<configuration>
...
<system.serviceModel>
  ...
  <diagnostics>
    <messageLogging logMessagesAtServiceLevel="true" logMalformedMessages="true"
logMessagesAtTransportLevel="true" />
  </diagnostics>
</system.serviceModel>
</configuration>
```

Enable Message Logging with Personally Identifiable Information

For example, this logs the remote IP address of clients connecting to the service.

Open "C:\Windows\Microsoft.NET\Framework\v4.0.30319\Config\machine.config" and set enableLoggingKnownPii.

Change this: **XML**

```
<configuration>
...
<system.serviceModel>
...
  <machineSettings enableLoggingKnownPii="false" />
...
```

to: **XML**

```
<configuration>
...
<system.serviceModel>
...
  <machineSettings enableLoggingKnownPii="true" />
...
```

Open "system.serviceModel.diagnostics.config" and enable logMessagesAtServiceLevel, logMalformedMessages, logMessagesAtTransportLevel, logEntireMessage, and logKnownPii.

Change this: **XML**

```
<configuration>
...
<system.serviceModel>
...
  <diagnostics>
    <messageLogging logMessagesAtServiceLevel="false" logMalformedMessages="false"
logMessagesAtTransportLevel="false" />
  ...
```

to: **XML**

```
<configuration>
...
<system.serviceModel>
...
  <diagnostics>
    <messageLogging logMessagesAtServiceLevel="true" logMalformedMessages="true"
logMessagesAtTransportLevel="true" logEntireMessage="true" logKnownPii="true" />
  ...
```

Standalone Web Server Logging

Standalone Web Server Configuration File

The "Management Web Server" windows service configuration file with a default installation is located here: "C:\Program Files\NovaStor\NovaBACKUP Central Management Console\WebRoot\Web\bin\ManagementServer.WebServer.WindowsServiceHost.exe.config"

Log File Location

With a default installation, the log files are located here: "C:\Program Files\NovaStor\NovaBACKUP Central Management Console\WebRoot"

How to enable logging for the "Management Web Server" windows service

Open the "Management Web Server" windows service configuration file, perform the step outlined below, and then save the file. This generates a web.log file in "C:\Program Files\NovaStor\NovaBACKUP Central Management Console\WebRoot" for example.

Enable Log Listeners

Enable logging to a Flat File.

Change this: **XML**

```
<configuration>
...
<loggingConfiguration ...>
...
<categorySources>
...
  <add name="Info" switchValue="All" />
</categorySources>
...
```

to: **XML**

```
<configuration>
...
<loggingConfiguration ...>
...
<categorySources>
...
  <add name="Info" switchValue="All" >
    <listeners>
      <add name="Flat File Destination" />
    </listeners>
  </add>
</categorySources>
...
```

Web Site Logging

Web Site Configuration File

The "Management Server" Web Site configuration file with a default installation is located here: "C:\Program Files\NovaStor\NovaBACKUP Central Management Console\WebRoot\Web\web.config"

Log File Location

With a default installation, the log files are located here: "C:\Program Files\NovaStor\NovaBACKUP Central Management Console\WebRoot"

How to enable logging for the "Management Server" Web Site

The "Management Server" Web Site configuration file is configured with logging enabled by default. This generates a web.log file in "C:\Program Files\NovaStor\NovaBACKUP Central Management Console\WebRoot" for example.

Scheduled Task Logging

Scheduled Task Configuration File

The "NovaBACKUPManagementServer" Scheduled Task configuration file with a default installation is located here: "C:\Program Files\NovaStor\NovaBACKUP Central Management Console\ScheduledTask\ManagementServer.Service\ScheduledTask.Console.exe.config"

Log File Location

With a default installation, the log files are located here: "C:\Program Files\NovaStor\NovaBACKUP Central Management Console\ScheduledTask\Logs"

How to enable logging for the "Management Server" Web Site

The "Management Server" Web Site configuration file is configured with logging enabled by default. This generates a trace.log file in the Logs folder.