

# NovaBACKUP® CMon v19.1

# **User Manual**



Features and specifications are subject to change without notice. The information provided herein is provided for informational and planning purposes only.

www.novabackup.com

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### 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.

- 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

#### **Operating Systems:**

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

#### Connectivity to one of the following:

- Built in SQLite database
   The following is completely optional if you do not want to utilize the built in SQLite database which is the default:
- Microsoft SQL 2008 R2
- Microsoft SQL 2012
- Microsoft SQL 2016
- Microsoft SQL 2017

#### Miscellaneous

- Microsoft .NET Framework 4.x
- 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.

- IIS with IIS 6 compatibility or utilize the built in standalone web server (if the Microsoft IIS option is utilized during installation)
- Intel **Dual Core** CPU or better
- 4 GB of RAM minimum
- 3 GB free hard drive available space on OS drive
- TCP/IP network

### 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.

The SQLite database can easily handle 25 agents, and 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. The optional "Microsoft SQL Server 2008 R2.." component is unchecked because the CMon software is shipped with a built in SQLite database that is able to handle many agents, but the option to use "Microsoft SQL Server 2008 R2 Express Edition" is there if you decide to utilize it.

Upon running the installer, the following screen comes up to ensure all prerequisite components are installed.

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agement 9	V	Microsoft .NET Framewo Microsoft .NET Framewo Microsoft SQL Server 20 Management Server	ork 3.5 (Installed) ork 4 (Installed) 008 R2 Express Edition	on Database and
Man	<	Ш		>

After you have all the prerequisites installed, the following screen will come up:

岗	Management Server Setup
Ð	Welcome to the Management Server Setup Wizard
	The Setup Wizard will install Management Server on your computer. Click Next to continue or Cancel to exit the Setup Wizard.
	Back Next Cancel

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

All NovaB condition carefully	ACKUP users must agrees before using this :	e to the follo software. Plea	wing terms and se read them	^
PERMITTED 1. NovaB require a from Nova	USES ACKUP is licensed for dditional copies, a s Stor.	e one machine o Bite license ma	nly. If you y be purchased	
USES NOT	PERMITTED			
2. You m	ay not transfer this	software, elec	tronically or	~

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.

5	Management	Server Setu	p [	- 🗆 X
Custom Set Select the wa	J <b>p</b> ay you want features to be insta	alled.		$\odot$
Click the icon	s in the tree below to change th	e way features w This feat your har subfeat subfeat hard driv	will be installed. Ture requires <mark>14</mark> d drive. It has ires selected. T ires require <mark>291</mark> re.	<mark>154KB</mark> on 4 of 4 he 1 <mark>B</mark> on your
Location:	C:\Program Files (x86)\Nov Management Console\	vaStor WovaBAC	KUP Central	Browse
Reset	Disk Usage	Back	Next	Cancel

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. From internal testing, unless you have a larger installation of over 30 agents that you will be controlling the SQLite database works well.

<b>B</b>	Mana	agement Server		- 🗆 X
SQL Database Select the s	Server Provider erver provider on which th	ne database will be ins	stalled.	Ð
SQL Server Pr	rovider:			
		Back	Next	Cancel

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.

谩	Manage	ment Server	×
Web Server Pr Select the s	rovider server provider on which the v	veb application will be ir	nstalled.
Web Server F	Provider:		
• Standa	alone Web Server		
O Microso	oft IIS		
O Manua	I Setup		
		Back	Next Cancel

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.

閿	Management Server	×
Management Server Co Enter the configurati	nfiguration on settings for the Management Service.	(
Public Server Address: Port:	192.168.0.5 4502 V	
	Back	Cancel

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

閿	Ma	anagement Server S	Setup	X
Ready t	o install Managem	ient Server		Ð
Click In installa	stall to begin the install tion settings. Click Cano	ation. Click Back to review cel to exit the wizard.	or change any o	of your
7		Back	Install	Cancel

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.

📸 Management Server Setup	– 🗆 X
Ð	Completed the Management Server Setup Wizard
	Click the Finish button to exit the Setup Wizard.
	Start the Management Server Service
	Start the Management Web Server
	Back Finish Cancel

### 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



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

opy .	Backup	Restore	Notification	Filters	Run As	Custom
Adva	nced Options	s V	Mware Servers	N	lanagement	t Server
Server	name:					-
192.1	66.0.5					0
Port nu	mber (betwe	en 1-65535)				
4502						1
Defaul	t group:					
For exa	ample, Root o	or Root Level	11Level2			
		2.1				
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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.

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 time time a user fails to log in because of an invalid password exceeds the maximum number configured in the web application 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.

### 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.

hboard																					
Agents																					
			Name	• <b>•</b>	Conne	ected <b>T</b>	Last Backup	Date 1		▼ Last	Backup	Status	T La	ist Back	tup Size	T	Last Back	up Duration	T		
<ul> <li>Connected: 6</li> <li>Disconnected: 0</li> <li>Total: 6</li> </ul>			Kevin		٠		1/20/2018 2:	24:43 PM		•										View	× Delete
			Rober	rt	٠		1/20/2018 7:	54:43 AM					1.	46 GB			1 hour			View	× Delete
			Jeff		•		1/20/2018 2:	54:43 AM		•			2.	18 GB			1 hour			View	× Delete
			David		•		1/20/2018 2:	54:43 AM		•			9.	14 GB			1 hour			View	× Delete
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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.

#### Agents & Groups

**Agents & 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.

S NovaBACKUP CM	on 🕼 Dasi	hboard 📥 Agents	and Groups 📑 Jobs	Notifications -	✿ Settings - ? Help -						💄 admi	
Agents and G	roups											
+ Add 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 <b>T</b>	
Adventure Works												View X Delete
🖌 🗁 Accounting												View X Delete
👰 Ruth		•	1/20/2018 2:54:43 PM	1/20/2018 1:54:43 AM	•	879.73 MB		1 hour			19.0.1124.1	<ul><li>✓ View</li><li>× Delete</li></ul>
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🖌 🗁 Marketing												View X Delete
👰 Kevin		•	1/20/2018 2:54:41 PM	1/20/2018 2:24:43 PM	•						19.0.1124.1	View × Delete
▲ 🗁 Sales												View X Delete

#### Agents & Groups - Add Group function example:

Adding a Group is performed by clicking the " Add Group " function as seen in this example.

General	Users	Notes	
	Name	Customer Support	
Des	cription	The customer support department	
	Parent	IT	

### 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.

Log					×
Backup - My Ba	ckup				
1					
Start 1/20/2018 10:54:43 AM - En	d 1/20/2018 11:54:43 AM (01:0	0:00)		Successful	
Backup Location C	\backup				
Files Selected 6	5 (9 GB)	Files Complet	ed	65 (9 GB)	
Application N	ovaBACKUP v19.0.1124	Write Mode		Overwrite	
Backup Open Files 0	n	Media Name		Media Name	
Compression 0	n	Encryption		Off	
Backup Type F	ull				
Messages	Message	T	Timestamp		<b>T</b>
	3				-
	No message	s were logged	I.		
	20 • items per p	age		No items to display	

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

This second example is a job with Failed status.

Log				>
Backup -	My Backup			
Start 1/20/2018 10:5	54:43 AM - End 1/20/2018 11:54:43 AM (01	1:00:00)	Fail	led
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	Message	Ŧ	Timestamp	Ŧ
Error	Error e0020038: The license has	s expired.	12/31/1969 4:02:03 F	M
	► ► 20 ▼ items per	page	1 - 1 of	1 items

#### **Triggers and Notifications**

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.

🔊 NovaBACKUP CMon 🛭 🖨 Agen	ts and Groups 🛛 🗐 Jobs	🜲 Notifications - 🔹 Settings	<ul> <li>→ ? Help -</li> </ul>	å admin	€ Log of
Notification Triggers					
+ Add Trigger					
Groups	Agents	Job Statuses	Last Checked		
Pending, Adventure Works, Accounting, Human Resources, IT, Engineering, Marketing, Sales	David, Jeff, Kevin, Nancy, Robert, Ruth	Started, Successful, Failed, Stopped, Warning	1/20/2018 2:56:02 PM	View X De	elete
Image         Page         1         Image         Image         10         ▼	items per page			1 - 1 of 1 ite	ems 🔿

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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.

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	IVICI	Ketin	iy <b>^</b> [rc				•] • • • • • • •									
	Sele	ect A	II Groups	De	eselect	t All Gro	oups									
Agents	Dav	id 🗙	Jeff 🗙	Ke	vin 🗙	Nancy	<b>x x</b>	Robe	ert 🗙	Rut	h x					
	Sele	ect A	II Agents	De	ese <mark>lec</mark> t	All Age	nts									
Job Status	Fail	ed ×	Starte	d X	Stopp	bed X	Succ	essfu	II ×	Wan	ning 🕽	×				
	Sele	ect A	II Job Sta	tuses	De	select A	All Job	Statu	uses							
Interval	Imm	ediat	te													
Recipients	adm	in⊘a	adventure	works	com			n I								
	aam	mœc	auventure	TOINS			-	ningk								
	Sepa	rate	multiple e	mail a	addres	ses with	a ser	nicoid	$D\Pi(.)$							
Subject	Sepa	rate	multiple e	mail a	ddres:	ses with	a ser	nicoid	ori (,)							
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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
<pre>\$backupClientVersionNumber</pre>	The backup client version number.	18.0.1813.1

Example:

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Groups	Pen	ding	× Adv	enture	e Wo	rks >	< A	ccour	nting	×	Huma	n Res	source	es ×	IT	×	
	Eng	inee	ring ×	Marke	eting	×	Sales	×									
	Sele	ect A	II Groups	D	esele	ect All	Grou	ips									
Agents	Dav	id 🗙	Jeff X	Ke	vin 🗙	< N	lancy	×	Robe	ert x	Rut	h x					
	Sele	ect A	II Agents	De	esele	ct All	Agen	nts									
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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.

Service NovaBACKUP CMon	Dashboard 📥 Age	nts and Groups	Jobs	🜲 Notifications <del>-</del>	Settings •	? Help <del>-</del>	å admin	🕒 Log off
Notification Setting	js							
Email Server								
Туре	NovaBACKUP Aler	s 🔻						
Server Address								
Server Port								
Enable SSL								
Enable Authentication								
User Name								
Password								
Retry Count		A T						
Timeout (Seconds)		A.V.						
Sender Name	NovaBACKUP Ale	rts						
Sender Email Address	noreply@novastor	.com						
Test Email Ado	dress Recipients							
То								
	Separate multiple en	nail addresses with	a semicolor	і (;).				
	Send Test Email	Save Changes						

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.

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S NovaBACKUP CMon	🔮 Dashboard	Agents and Groups	Jobs	🜲 Notifications -	🖨 Settings -	<b>?</b> Help →	å admin	🕞 Log off
Notification Settin Email Server	gs							
Typ Server Addres	e Custom S s smtp.adv	MTP •						
Server Po	rt 587	\$						
Enable SS Enabl Authenticatio	∟ ☑ e ☑ n							
User Nam	e backup@	adventureworks.com						
Passwor	d	••						
Retry Cour	st 5	\$						
Timeout (Seconds	30	\$						
Sender Nam	e NovaBA0	CKUP Alerts						
Sender Ema Addres	il backup@ s	adventureworks.com	×					
Test Email Ad	ddress Reci	pients						
т	0							

Separa	ate multiple em	ail addresses with a
Send	d Test Email	Save Changes

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### 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.

🔊 NovaBA	CKUP CMon	😍 Dashboard	Agents and Groups	📑 Jobs	Notifications -	🔅 Settings 🗸	<b>?</b> Help <del>+</del>	🛔 admin	🕞 Log off
Agent S	Settings Agent Conne	ections							
		Aç	gent connection timeout (	(minutes)	30	\$			
	Agent Logs	Agento	connection ping interval (	(minutes)	15	\$			
	Delet	e logs that excee	d the maximum number	per agent					
	De	lete logs that exc	eed the maximum numbe	er of days	100 ✓	÷			
					60	\$			
					Save Changes				

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#### **Users & Roles**

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 "Role" page.

🔊 NovaBACKUP CMc	n 🔮 Dashboard	📥 Agents	and Groups	📑 Jobs 🔺 Not	lifications - 🔅 Se	ttings <del>-</del>	? Help <del>-</del>	👗 a	idmin G	Log off
Users										
+ Add new user										
User Name	Email Address	T	Description	Ŧ	Role	T Ena	bled <b>Y</b>			
admin			Built-in Admin	istrator	Administrator	true		Niew	× Delete	4
Page 1	of 1 P	10 🔻	items per page					1 - 1	of 1 items	Ċ

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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.

🔊 NovaBACKUP CMon	🚯 Dashboard 🛛 🚓 A	gents and Groups	Jop:	s 🌲 Notifications <del>-</del>	🗘 Settings -	<b>?</b> Help <del>-</del>	👗 admin	🕞 Log of
Roles								
+ Add new role								
Name <b>T</b>	Description		T	Creation Date	Ŧ			
Administrator	Administrator			1/20/2018 2:54:28 PM	4	View X Delete		
Backup Auditor	Monitors backup and res	tore operation status		1/20/2018 2:54:28 PM		View X Delete		
Backup Operator	Creates/Schedules/Perfo operations	orms backup and rest	ore	1/20/2018 2:54:28 PM	4	View X Delete		
Backup Support	Assists with backup and	restore operations		1/20/2018 2:54:28 PM	4	View × Delete		
Page 1	of 1 (+) (+) 10	▼ items per page					1 - 4 of 4 ite	ms 🔿

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### 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

#### Password

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

S NovaBACKUP CMon	Dashboard	Agents and Groups	🗗 Jobs	♣ Notifications -	🖨 Settings <del>-</del>	? Help≁	👗 admin	🕒 Log off
Change Passw	ord							
Current password								
New password								
Confirm new password								
	Change password							

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### Time Zone

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

S NovaBACKUP CMon	😫 Dashboard	Agents and Groups	Jobs 🖉	A Notifications -	🕸 Settings <del>-</del>	<b>?</b> Help▼	占 admin	🕞 Log off		
Time Zone										
	Automatic	Automatically detect m	Z Automatically detect my time zone							
	Country	United States	United States							
	Time Zone	Pacific Time		~						
Time	Zone Identifier	America/Los_Angel	les							
	Curent Time	1/20/2018 2:56:39 PM								
		Save Changes								

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### 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.

S NovaBACKUP CMon	😍 Dashboard	Agents and Groups	Jobs	🜲 Notifications -	🖨 Settings <del>-</del>	<b>?</b> Help <del>-</del>	占 admin	🕒 Log off
Language and C	ulture							
	Automatic	Automatically detect m	iy language a	and culture				
	Language	English (United States)	)				~	
	Culture	en-US						
	Calendar	Gregorian						
Dat	te Time Pattern	M/d/yyyy h:mm:ss tt						
	Curent Time							
Number Dec	imal Separator	з						
Number G	roup Separator	ñ						
		Save Changes						

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### 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.

### Help / Technical Reference

#### The **Help** menu.

The Help menu will allow you to view the CMon - Central Monitoring Console User Manual.

A link is provided on the bottom of the help documentation to download a PDF version.

You can send us feedback by clicking the "Send Feedback" button on the right.

#### Known Issues with CMon

- Copy, 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

The "Management Server" windows service configuration file is used for troubleshooting.

For example, with a default installation, it 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. In both cases, errors will be logged in the app\_tracelog.svclog file in the Logs directory. For example, with a default installation, it is located here: "C:\Program Files\NovaStor\NovaBACKUP Central Management Console\Service\Logs".

If using the standalone web server, the "Management Web Server" windows service configuration file is used for troubleshooting.

For example, with a default installation, it is located here: "C:\Program Files\NovaStor\NovaBACKUP Central Management Console\WebRoot\Web\bin\ManagementServer.WebServer.WindowsServiceHost.exe.config".

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

#### 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 the "How to enable logging for the 'Management Server' windows service" section in this topic 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 the "How to enable logging for the 'Management Web Server' windows service" section in this topic 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 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 "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 configuration file. You can launch the Server Administration utility to quickly view and optionally edit the server address.

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

Open the "Management Server" windows service configuration file, perform the steps outlined below, and then save the file. This generates a fairly large amount of trace data in the Logs directory. After you are done troubleshooting, remember to revert your

changes.

#### 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>
...
```

#### Enable WCF Verbose Activity Tracing

Set the switchValue attributes to Verbose, ActivityTracing.

#### Change this: XML

#### to: XML

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

#### Enable Message Logging

 ${\it Enable \ logMessages At Service Level, \ logMalformed Messages, \ and \ logMessages At Transport Level.}$ 

```
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" />
...
```

## 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 log.txt file in "C:\Program Files\NovaStor\NovaBACKUP Central Management Console\WebRoot" for example. After you are done troubleshooting, remember to revert your changes.

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>
...
```