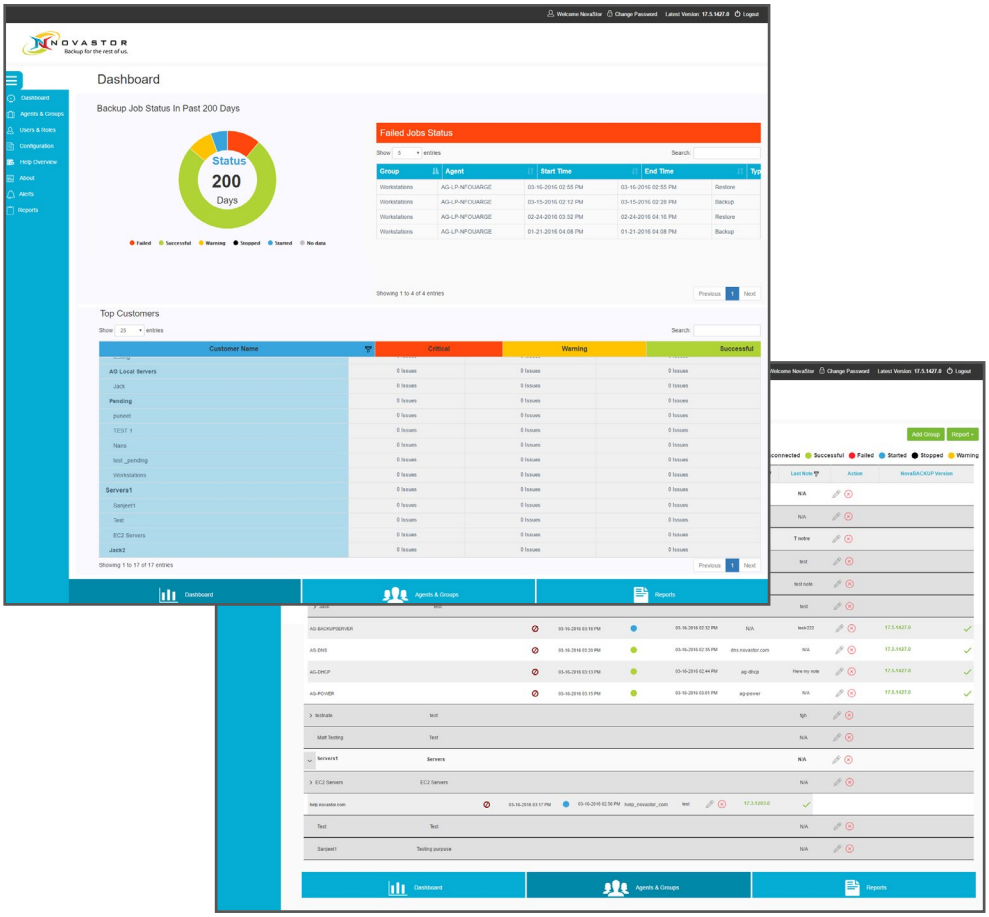
February 2017

NovaBACKUP®
CMon v18

User Manual



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

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

Miscellaneous

- .NET 3.51
- .NET 4.0
- Internet Explorer 9.0 or higher*
- IIS with IIS 6 compatibility or utilize the built in standalone web server
- Intel **Dual Core** or better
- 4 GB of RAM minimum
- 3 GB free hard drive available space on OS drive
- TCP/IP network

Introduction:

Welcome to the NovaBACKUP® CMon (Central Monitoring Console)

Quick Start Guide. 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 higher. Typically CMon is installed on a Windows Server 2008 R2 or 2012 machine which does not have NovaBACKUP backup software installed on it. It can however run on the same Windows Server 2008 R2 or 2012 machine that NovaBACKUP Server or Business Essentials is installed but it may perform better on a separate server. Please read the prior System Requirements section of this guide 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 exact same manner.

CMon Installation

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 CMon User Manual coming up next in this document.

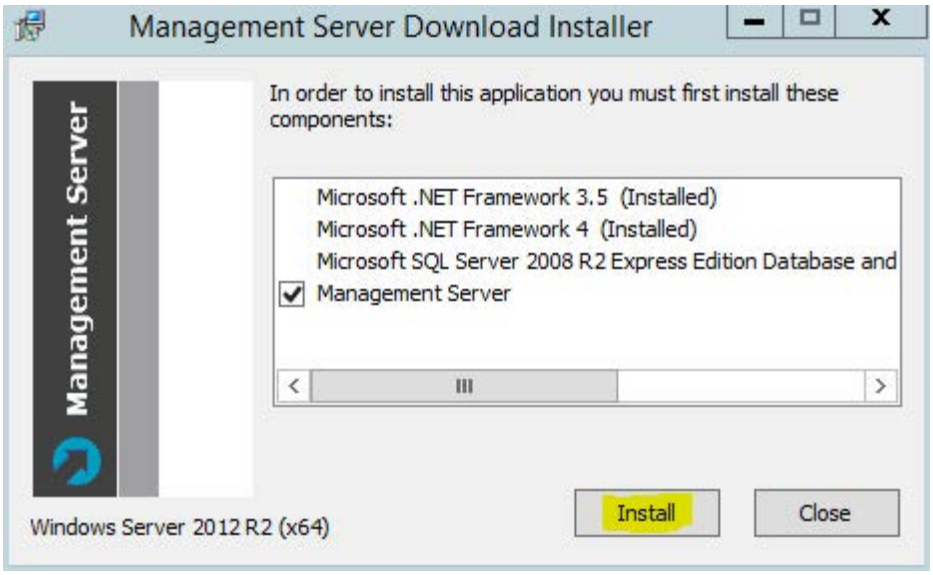
Things to note for the installation of the CMon:

- **Make sure the incoming and outgoing firewall default ports 80 and 4502 are correctly configured to allow for proper communication. If you have software firewall installed on the computer hosting the CMon you will want to allow the ports mentioned above as well as port 4502 on all of your computers that are running the NovaBACKUP client software (PC, Server, and Business Essentials).**
- During the installation of the CMon you will be asked for the Public Server Address of the man-agement 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"

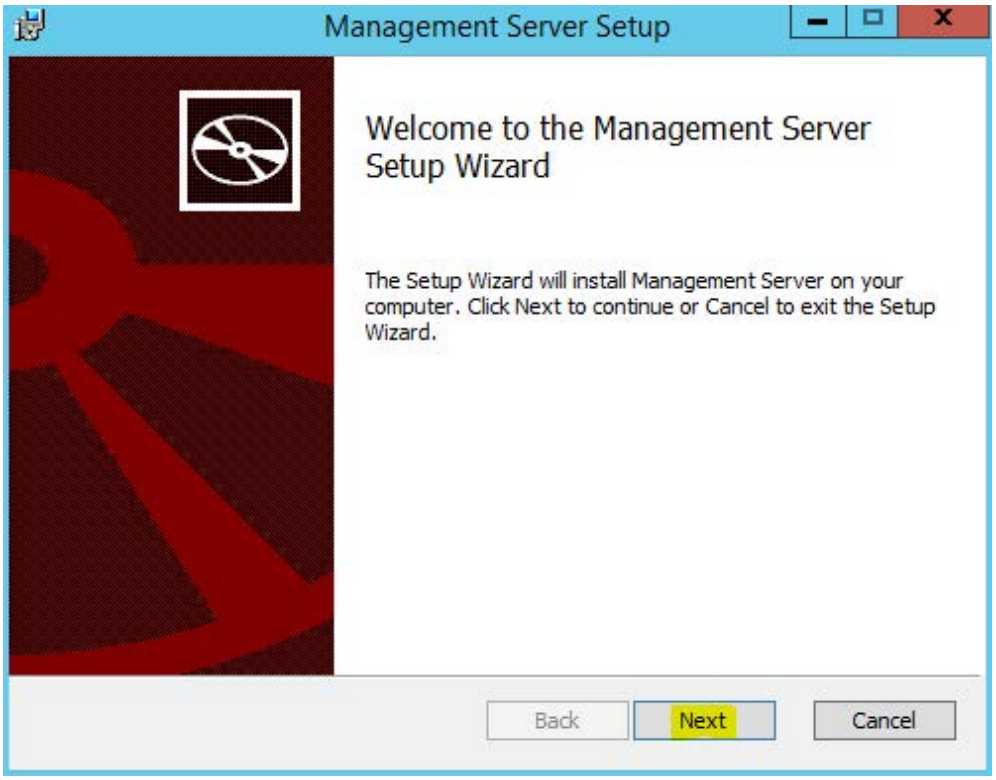
Installing the Software

To start the **CMon installation**, 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.

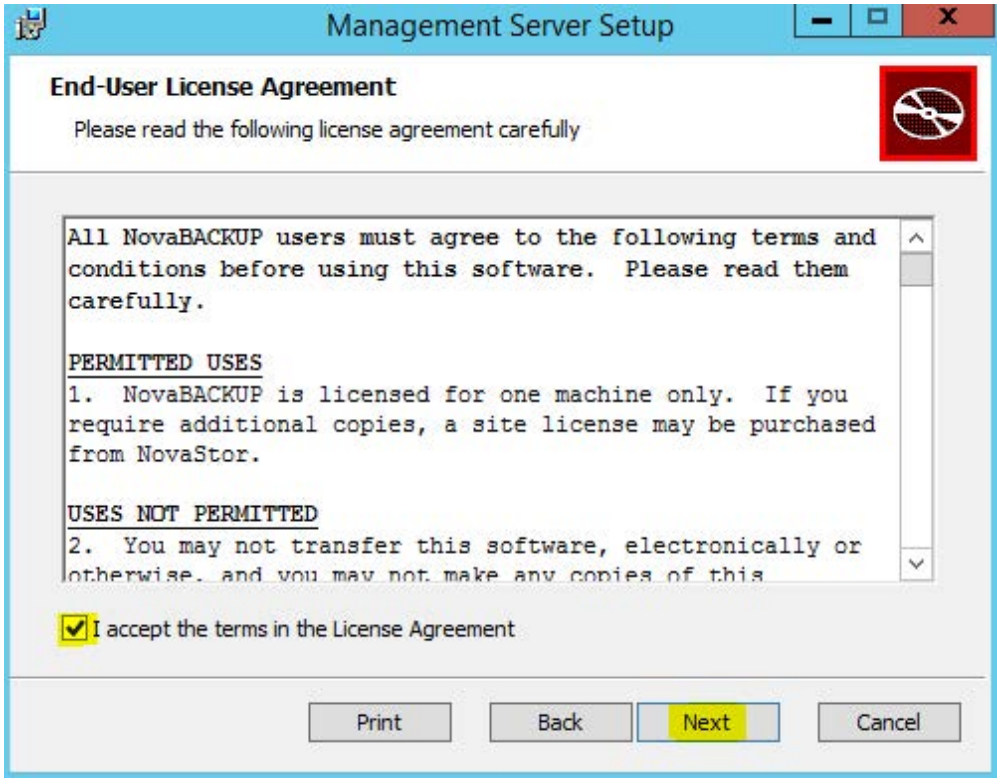
Upon running the installer, the following screen comes up to ensure all prerequisite components are installed.



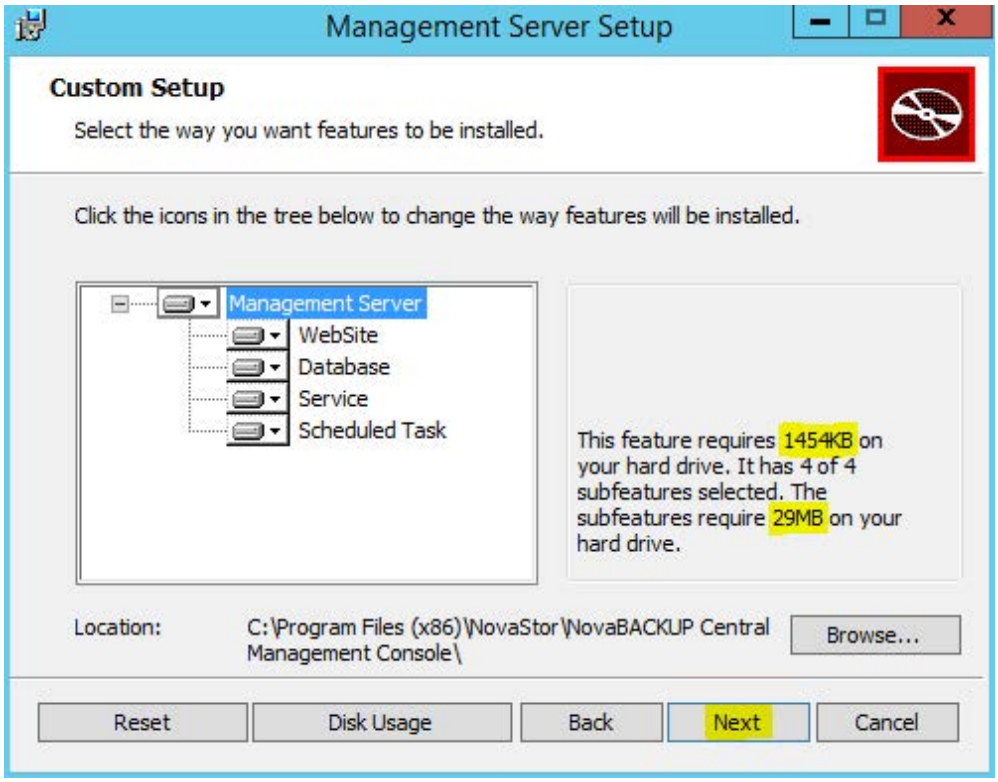
After you have all the prerequisites installed, the following screen will come up:



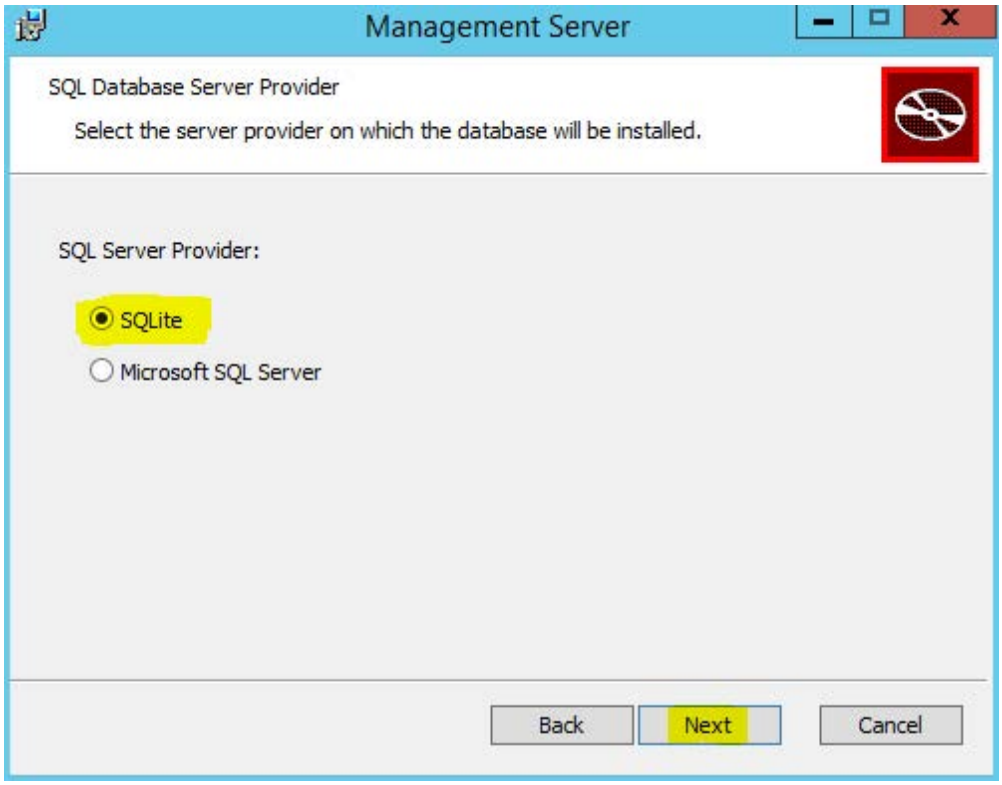
Clicking next on this screen will present you with the End-User License Agreement screen which needs to be accepted before continuing.



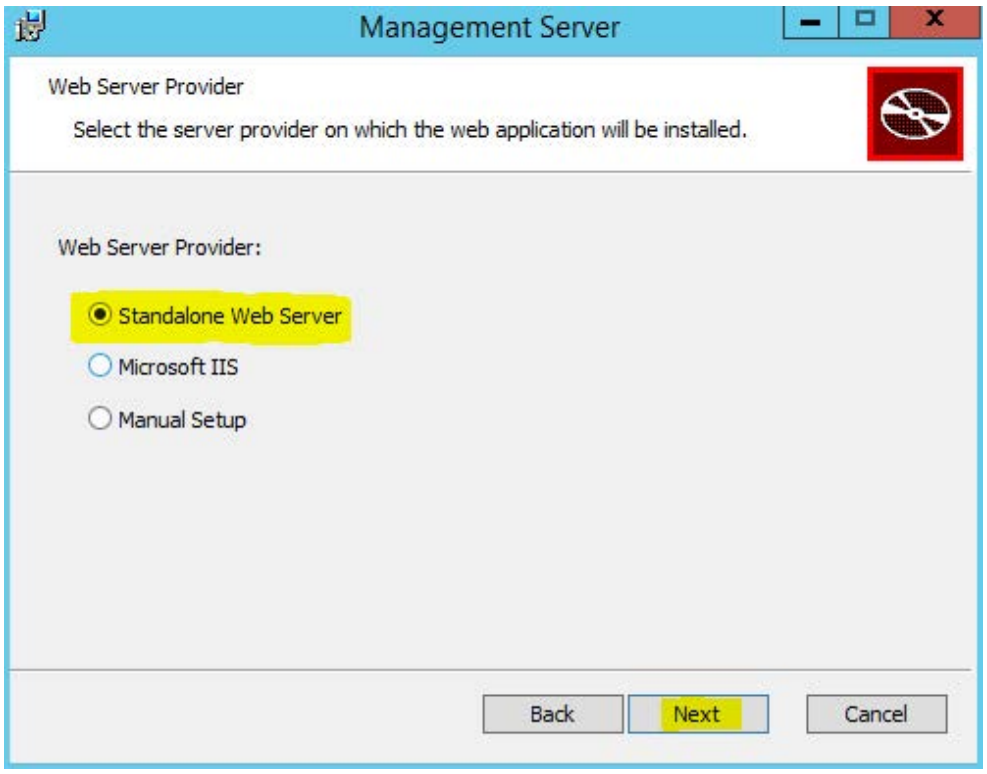
After accepting the EULA the next screen shows what features will be installed, it is recommended to keep everything with the defaults here unless there is a specific reason you need to change them.



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



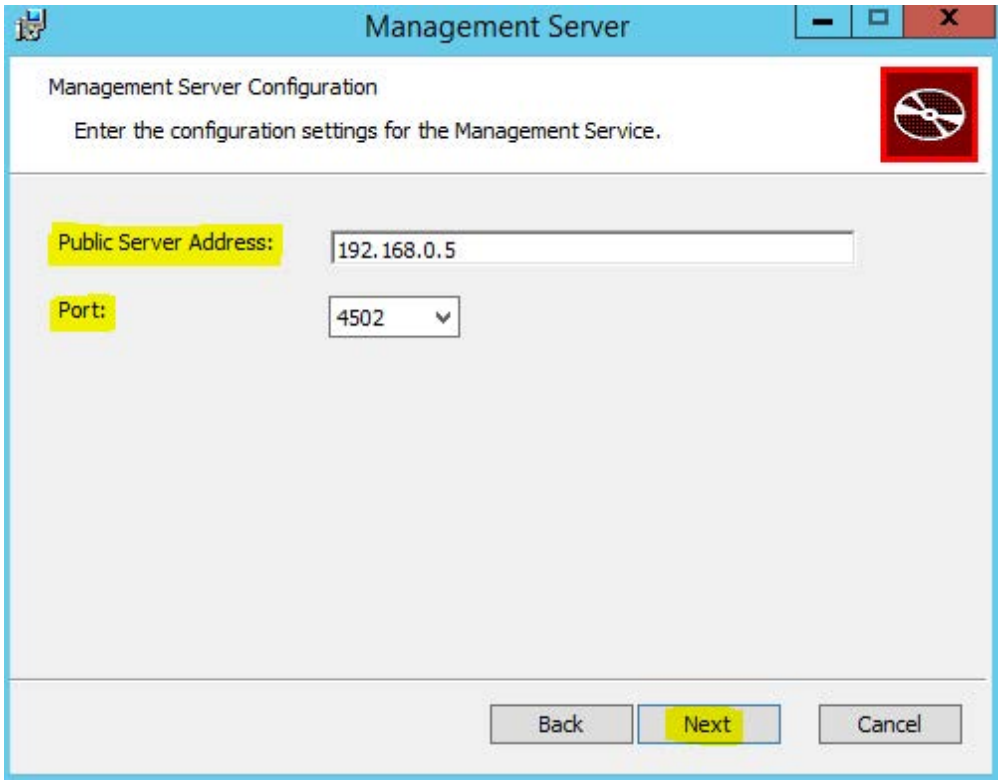
Assuming you choose the SQLite database the next screen you will see is the screen that will ask you where you want to host the web application. If you do not already have IIS installed on your machine, we have found in testing that the standalone web server works very well. If you have IIS installed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



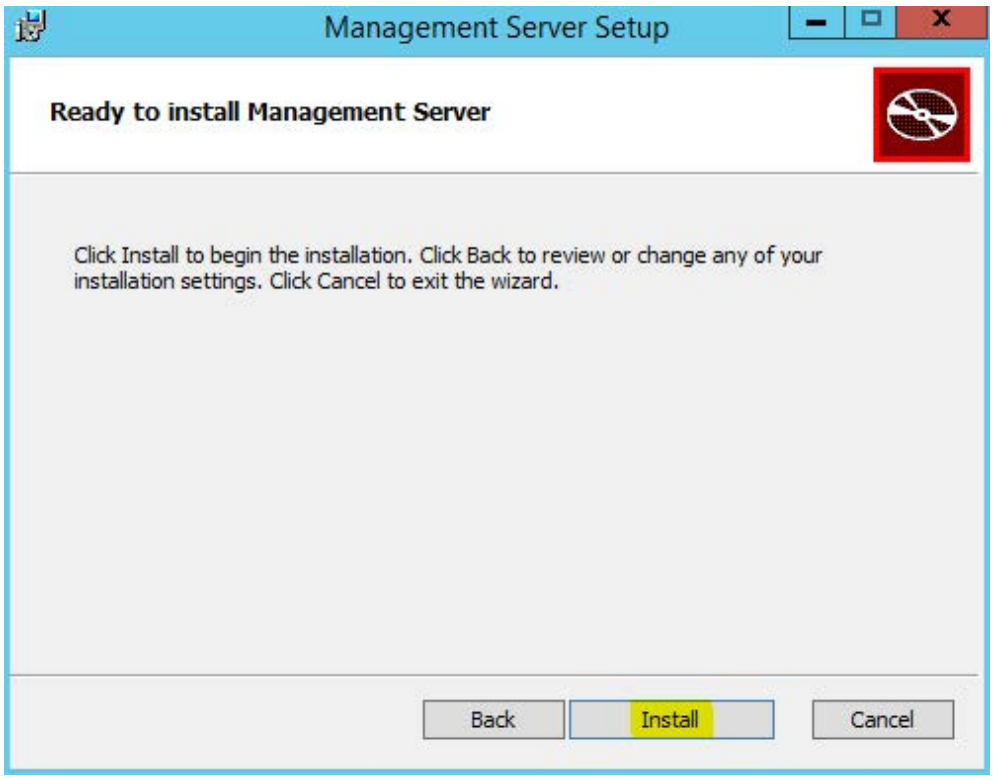
After choosing where you want the web application installed to it is time to configure the web application. The Public Server Address dialog box shown in this screen is the IP, DNS name, or computer name that the NovaBACKUP agents are going to be communicating with. The Port dropdown box contains the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

The computer that hosts the CMon Server application needs to have the port that you choose open on it so the NovaBACKUP agents can communicate with the CMon. 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 CMon is initiate so there should not be much to deal with firewalls on the NovaBACKUP agents. If communication cannot be established between the NovaBACKUP client application and the CMon Server application your firewalls may need to be configured to allow the ports that you told the CMon to utilize during the CMon installation.

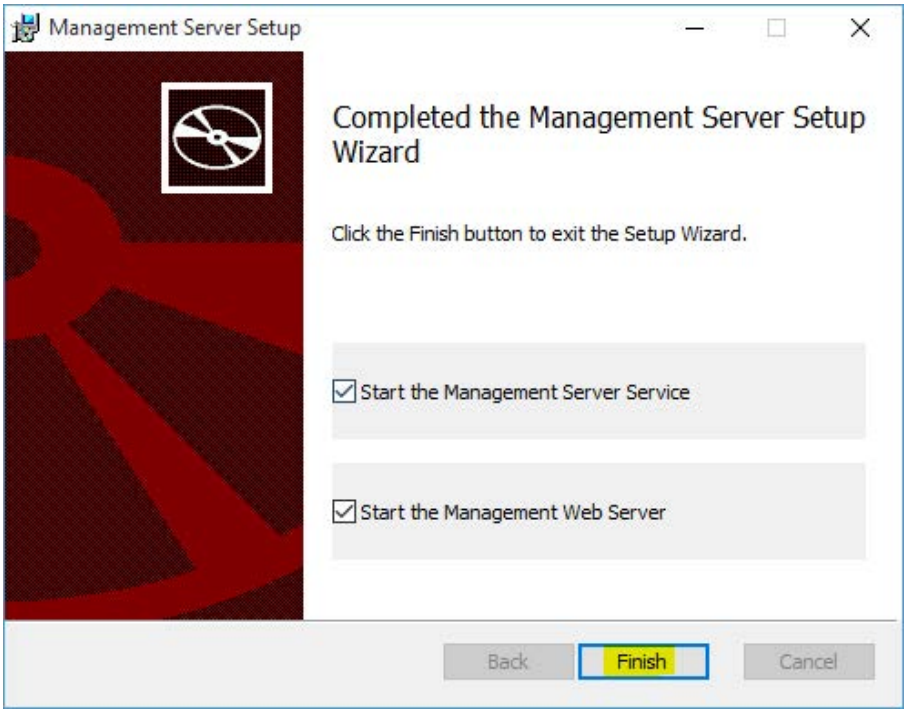
Make sure the incoming and outgoing firewall default ports 80 and 4502 (or whatever ports you specified during CMon installation) are correctly configured to allow for proper communication. If you have software firewall installed on the computer hosting the CMon you will want to allow the ports mentioned above as well as port 4502 on all of your computers that are running the NovaBACKUP client software (PC, Server, and Business Essentials).



At this point all the information needed to install the 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.



Connecting to the Agent (1 of 2)

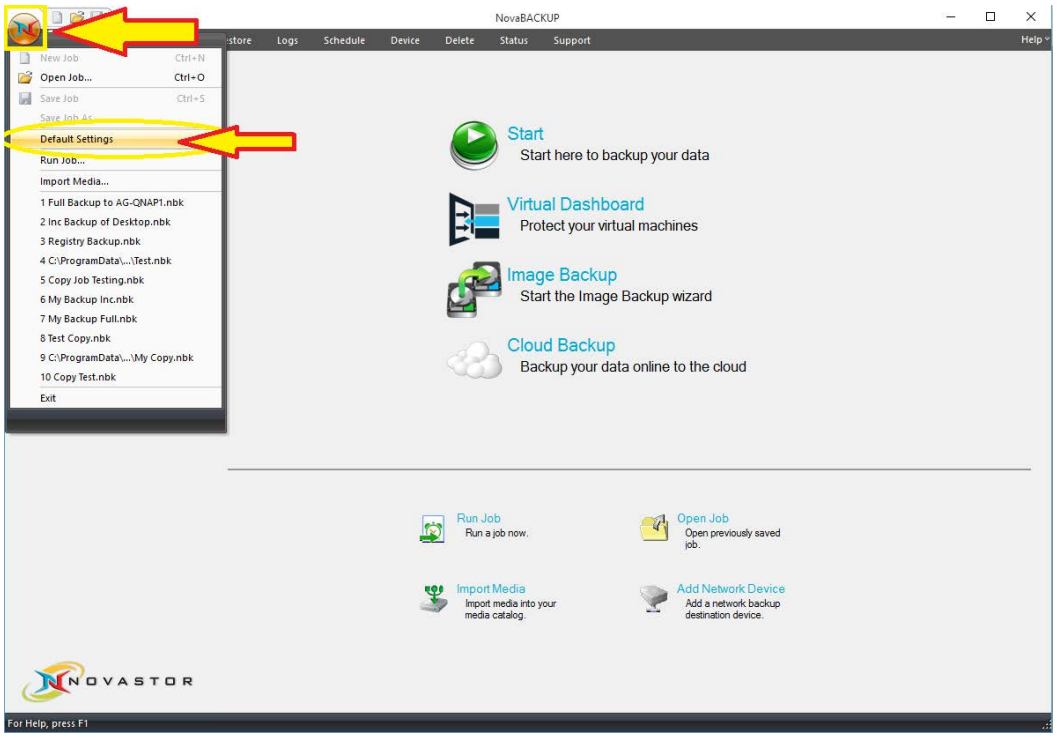
Now that you have the CMon successfully installed it's time to connect an agent to it. **Part 1 of 2**.

1. The first thing you need to do is install NovaBACKUP® PC, Server, or Business Essentials (agent) 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.
2. Once NovaBACKUP® PC, Server, or Business Essentials is installed we need to configure the connection to the CMon.
    - From within NovaBACKUP® click on the Home tab.
    - On the upper left hand side of the screen click on the large NovaStor logo circle button, then click "**Default Settings**".
3. This will open a screen with a series of additional tabs. Click on the CMon Server tab (screen shots available on the next page in Part 2). Within this tab you will need to fill in the IP address of the machine where you installed the CMon along with the port number if you've changed it (the default port is 80). 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.
4. Finally, start the service. Click [Start Service] and then [OK]. Now you have the CMon installed, an agent installed, and the agent connected to the CMon. You should now be able to login to the CMon and see the agent.
5. 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.
6. Additional agents may be connected using these same steps. Please follow the next page, **Part 2 of 2**, for a more detailed overview of these instructions which also contain screen shots.

Thank you for choosing NovaBACKUP® CMon by NovaStor

Connecting to the Agent (2 of 2)

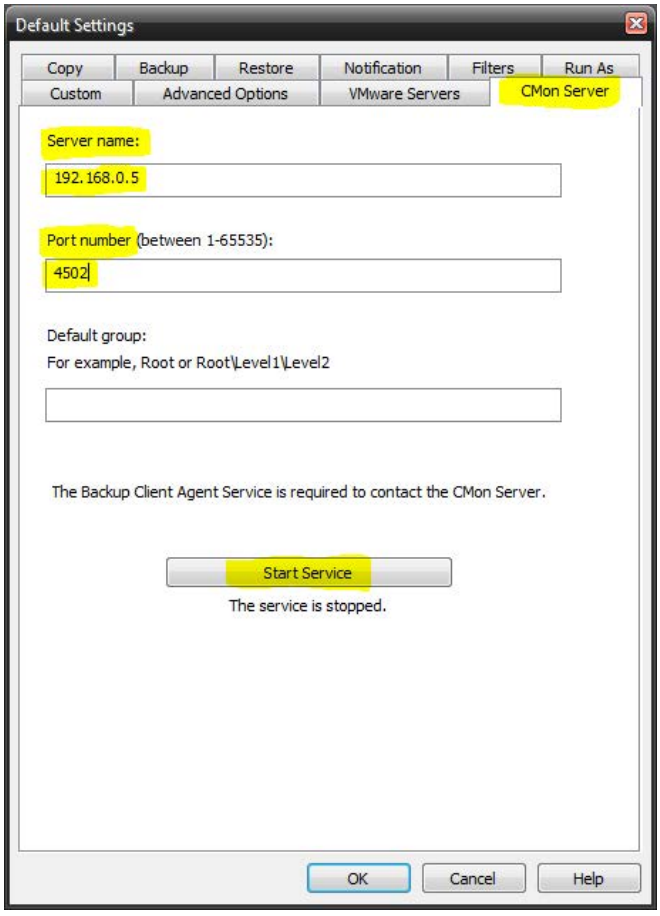
Part 2 of 2 is a detailed explanation w/screen shots of how to connect the backup software to the CMon. NovaBACKUP PC, Server, and B.E. clients require a setting to be configured in order for the backup client to become an Agent. Start NovaBACKUP client and from the main menu click the large circle NovaStor logo button highlighted at the top left, and then click "**Default Settings**".



Once in "**Default Settings**" you will click on the "**CMon Server**" tab. It will look like the example screen on the right. You will be required to configure the "**Server name**" and "**Port number**" variables on this screen. For the Server name you will enter the IP address of the CMon. During the CMon installation you were told what the IP address would be as well as the port. The default Port number is 4502 and that should work without being changed unless CMon was set up with a different Port number during the installation of that product.

Next click the "**Start Service**" button that is highlighted in the example; the service has to be able to start, in text below the button you will see "The service is started" if it has started successfully.

Finally, you will click the "OK" button to save the changes.

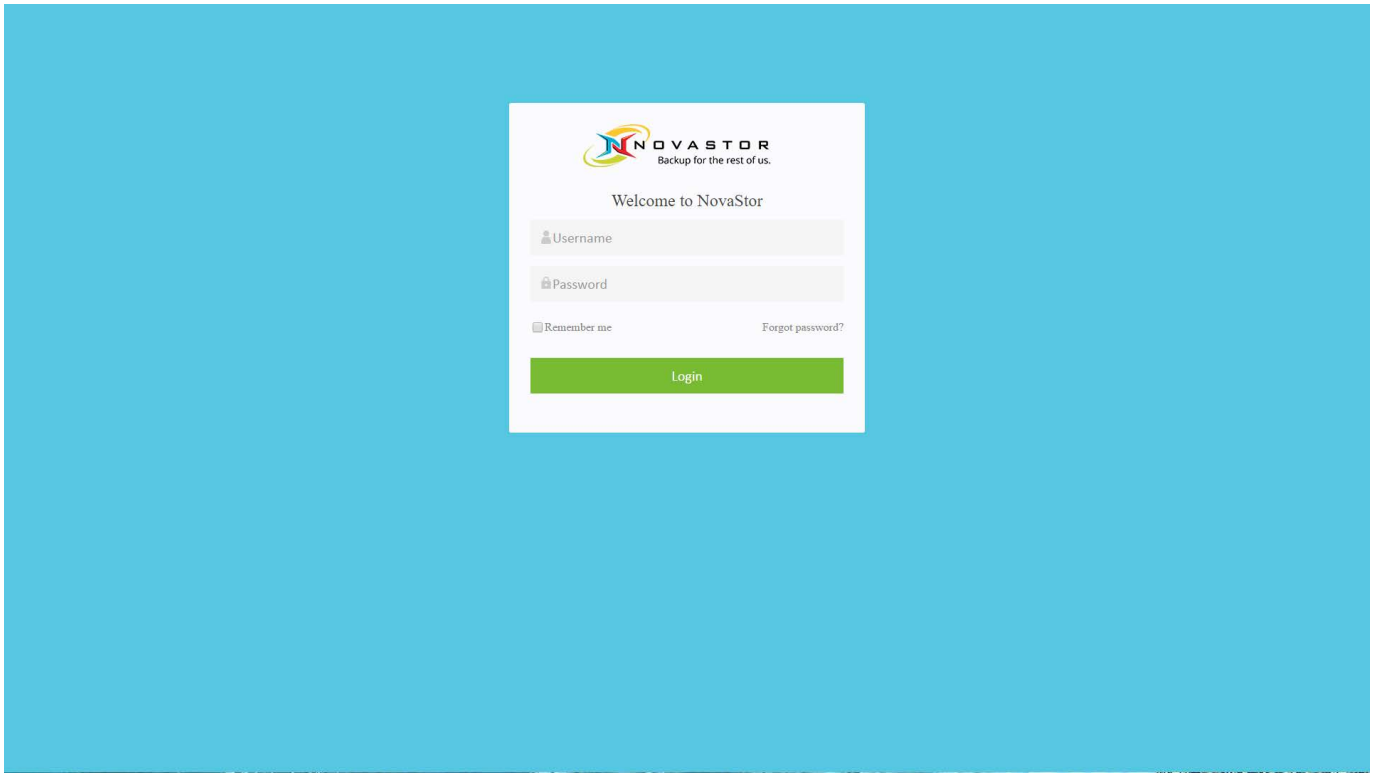


Accessing the CMon

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.

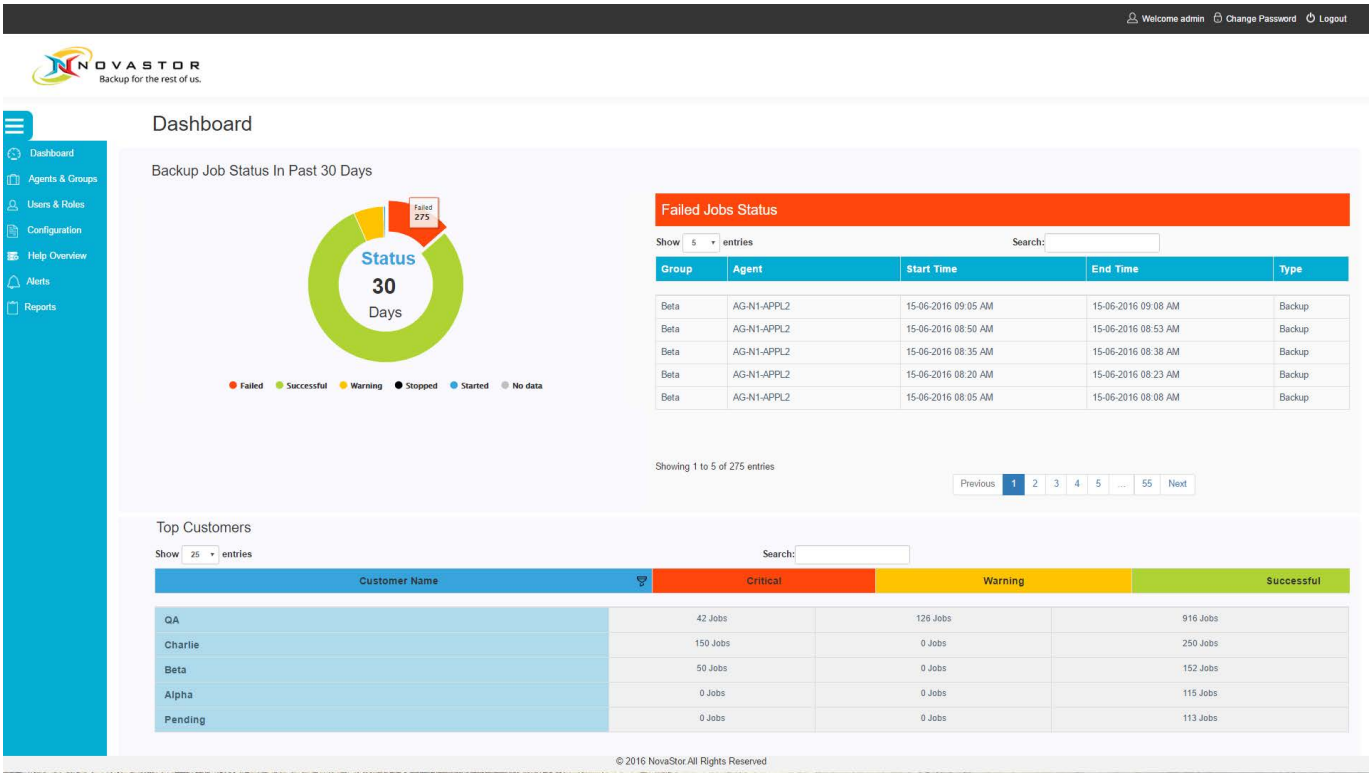


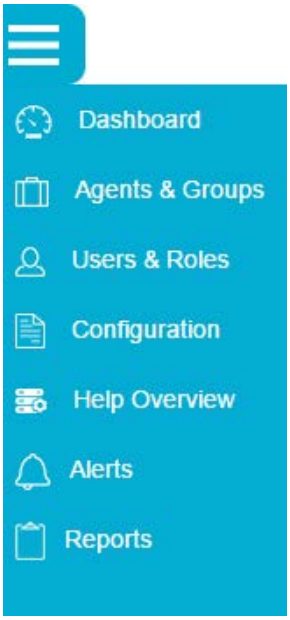
The default login Username is **admin** with a Password of **admin**.

The Password and Password Hint can be changed by clicking on the **Change Password** link in the upper right hand corner of the web application.

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. An iOS and Android app is planned for future release.

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





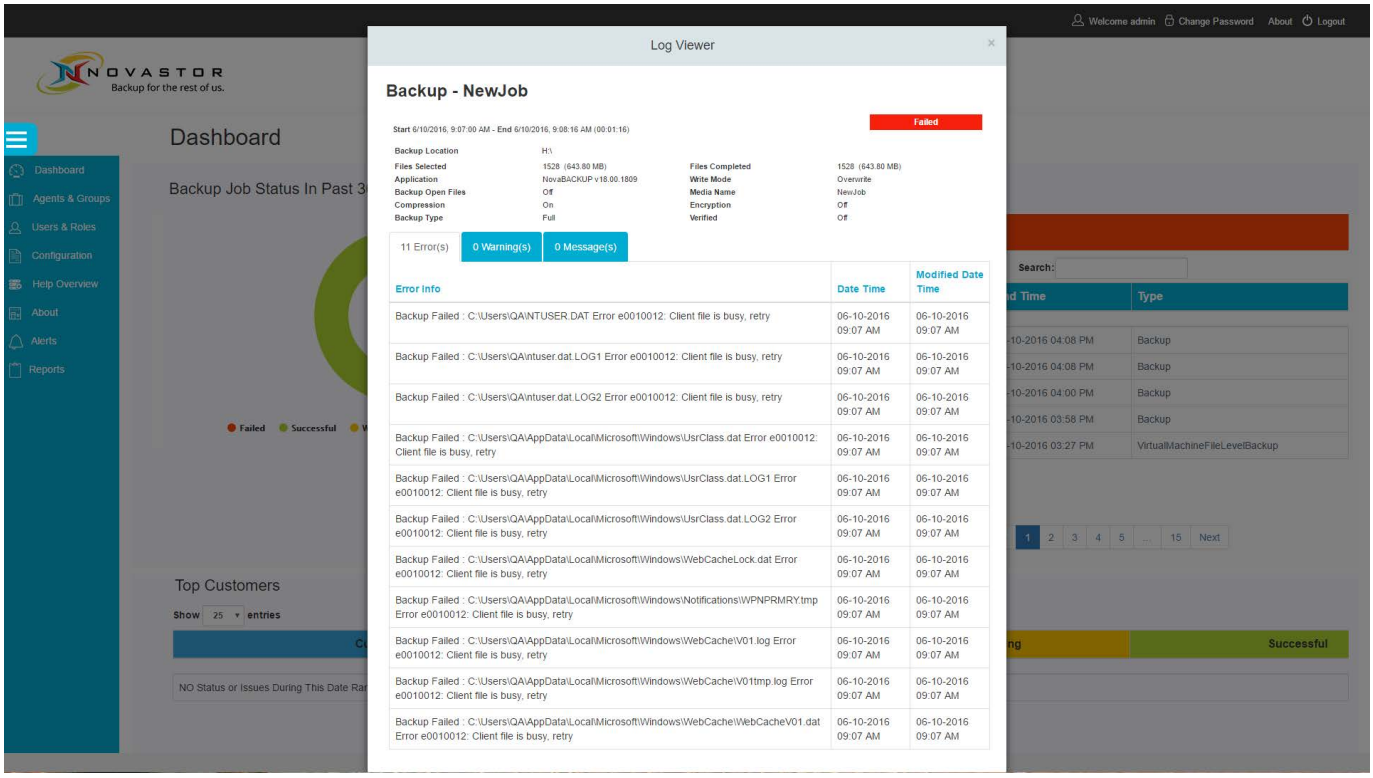
The "**Sidebar menu**" that is displayed on the left side of the Dashboard screen shows the various functions that can be quickly accessed. To see the sidebar menu you will have to expand it by clicking on the 3 vertical bar item near the top left, left of the text "**Dashboard**".

On the Dashboard screen you can perform various functions. You can hover over the circular pie-chart graphic near the middle left of the screen to see your job status, to display jobs with all of the various types of status including Failed, Successful, Warning, Stopped, Started and No data jobs.

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.

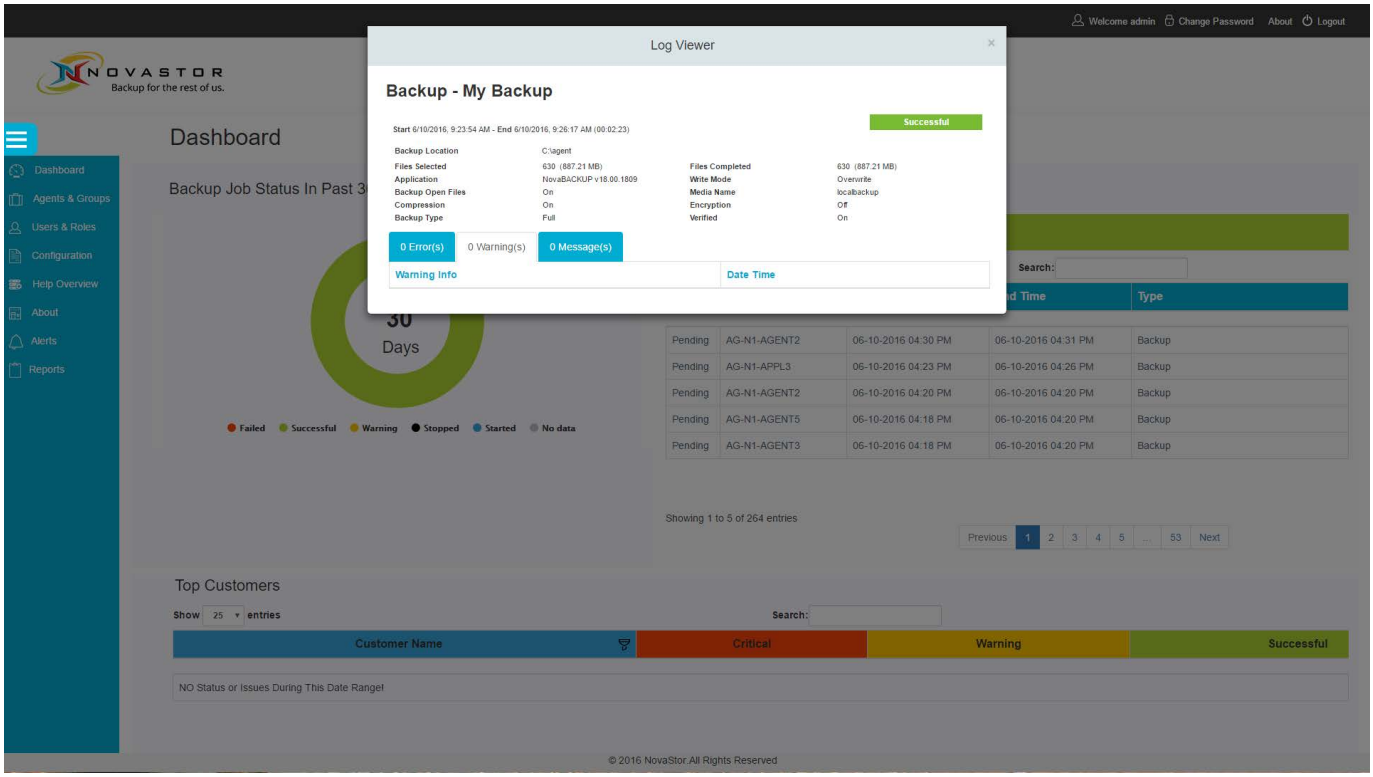
Log Viewer via the Dashboard example (1 of 2):

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 Failed status.



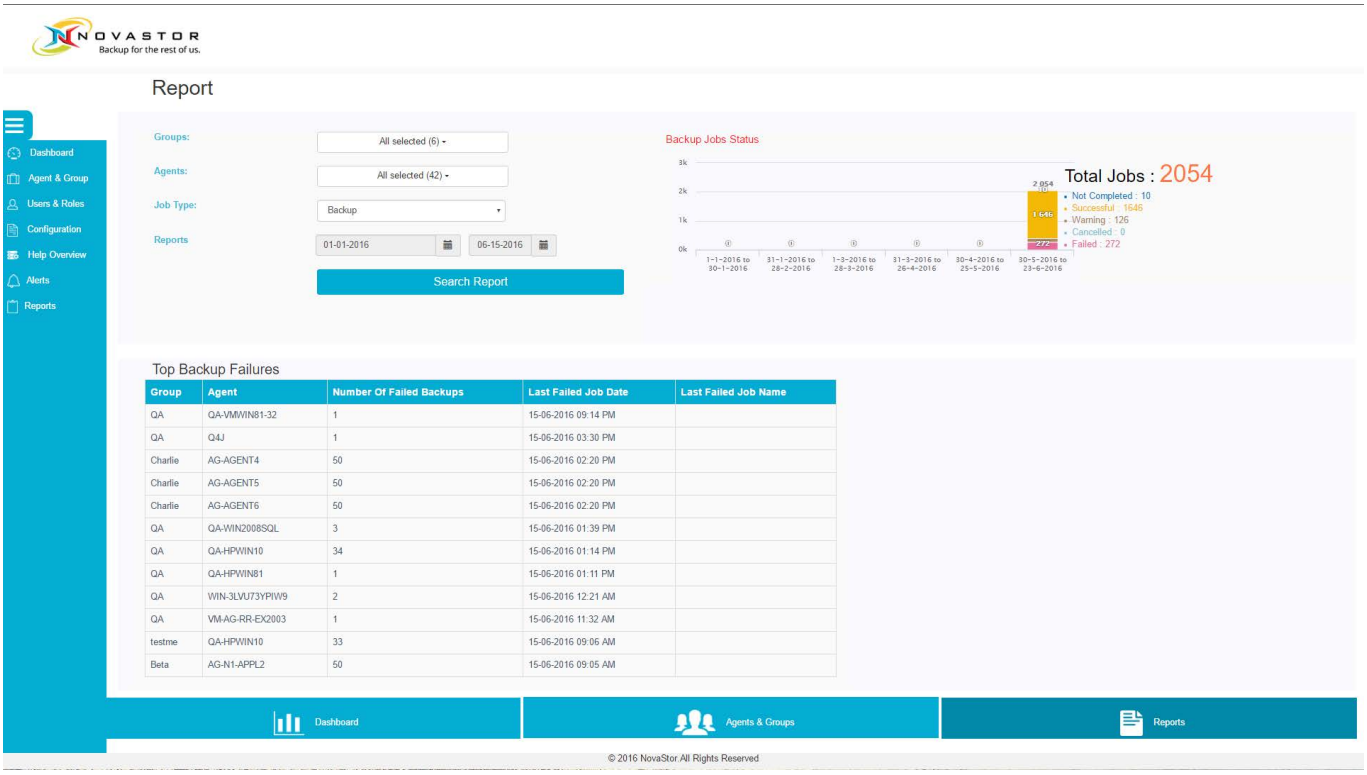
Log Viewer via the Dashboard example (2 of 2):

This second example is a job with Successful status.



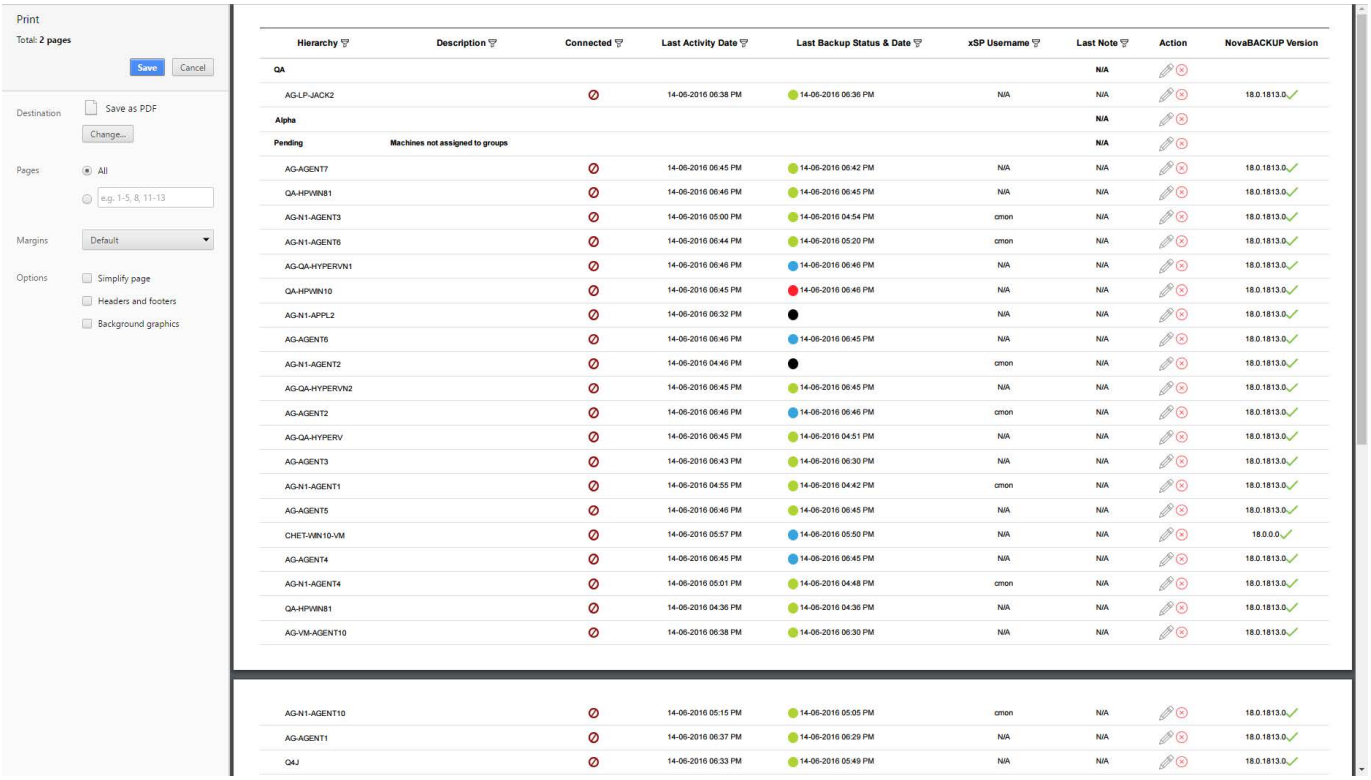
CMon can be utilized to generate reports, here we have an example of the Report function. The Report function will allow you to pull reports on all of your client's jobs.

Report function example (1 of 2):

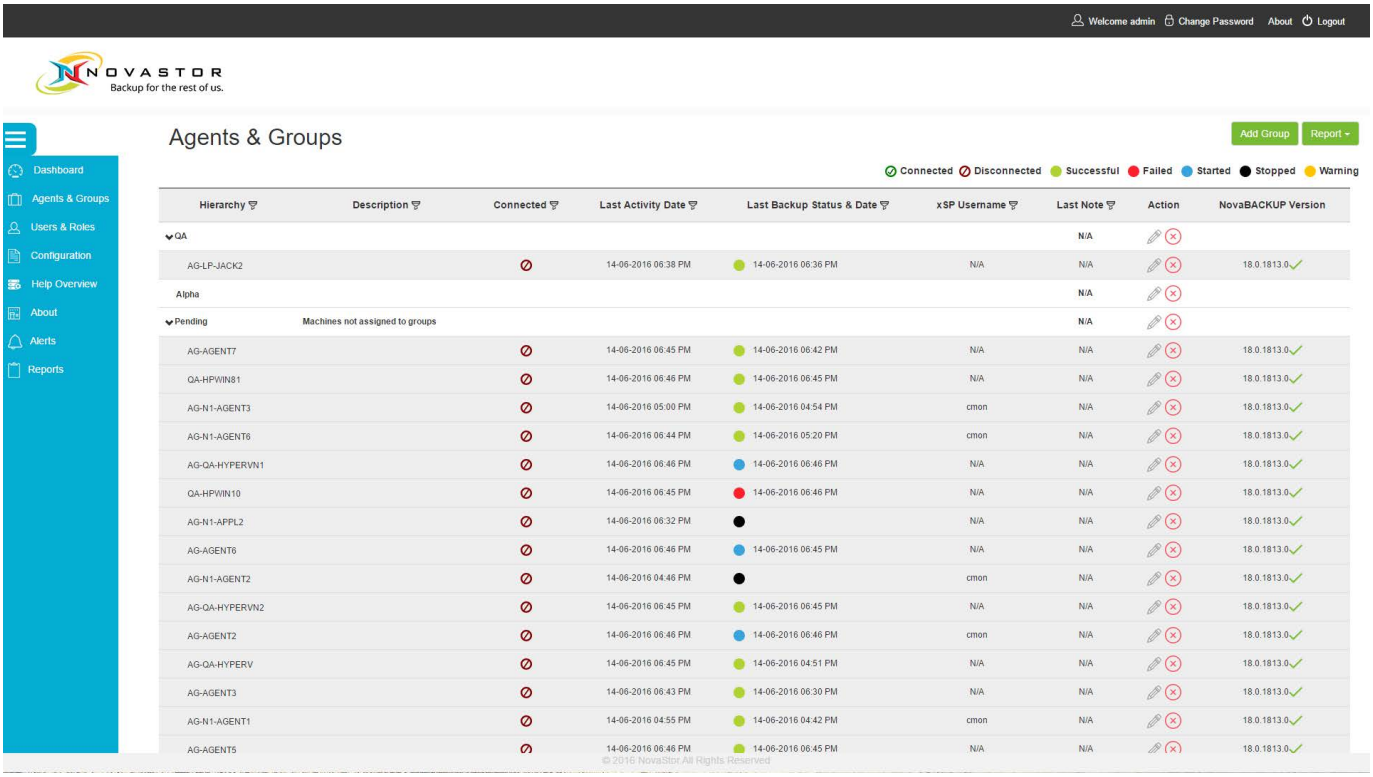


Report function example (2 of 2):

Print Report function example. You can print reports here for a single backup client or group of clients. This function is available in the Report area. You can print to a printer, or "Save as PDF".

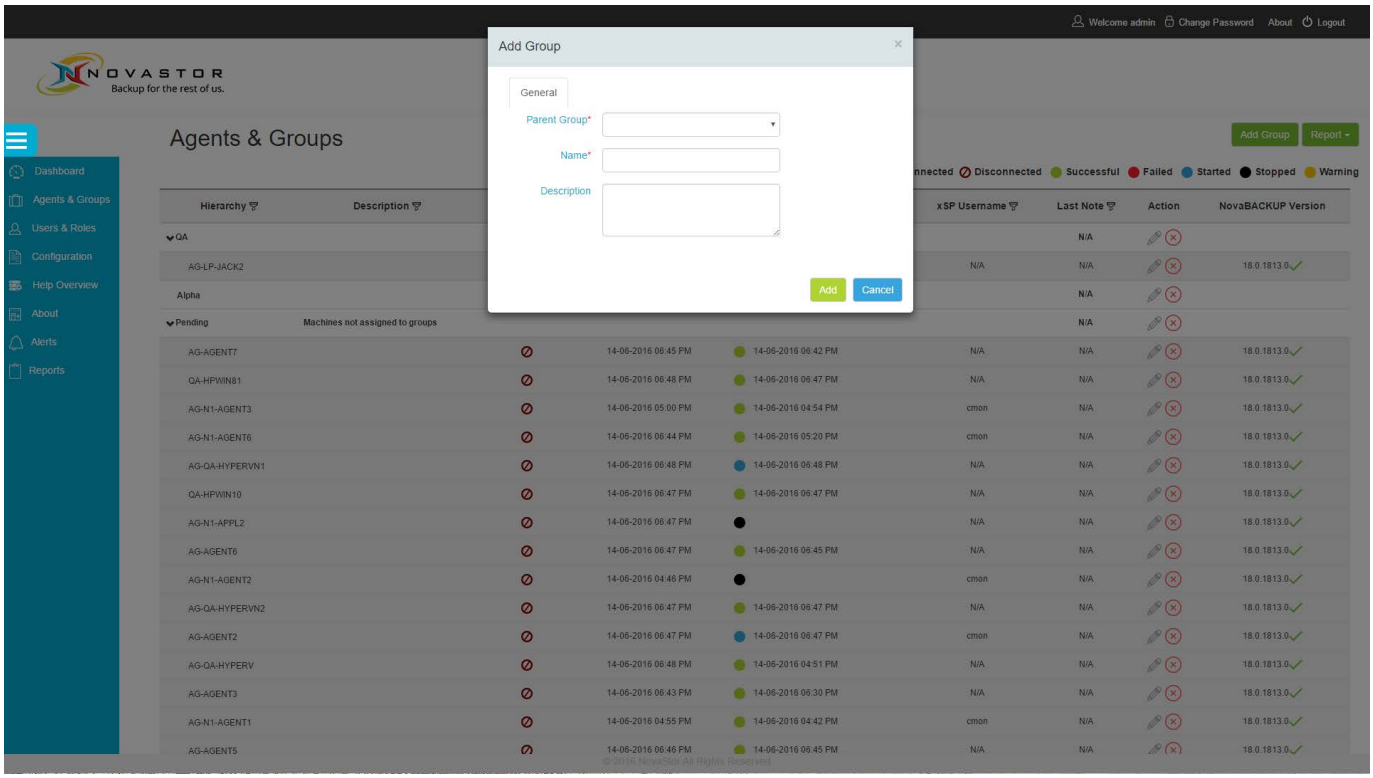


Agents & Groups is the area in CMon where you will view all of your client software that has been configured to connect to the CMon. You can create Groups here as well as print a Report of the contents of the Agents & Groups area.



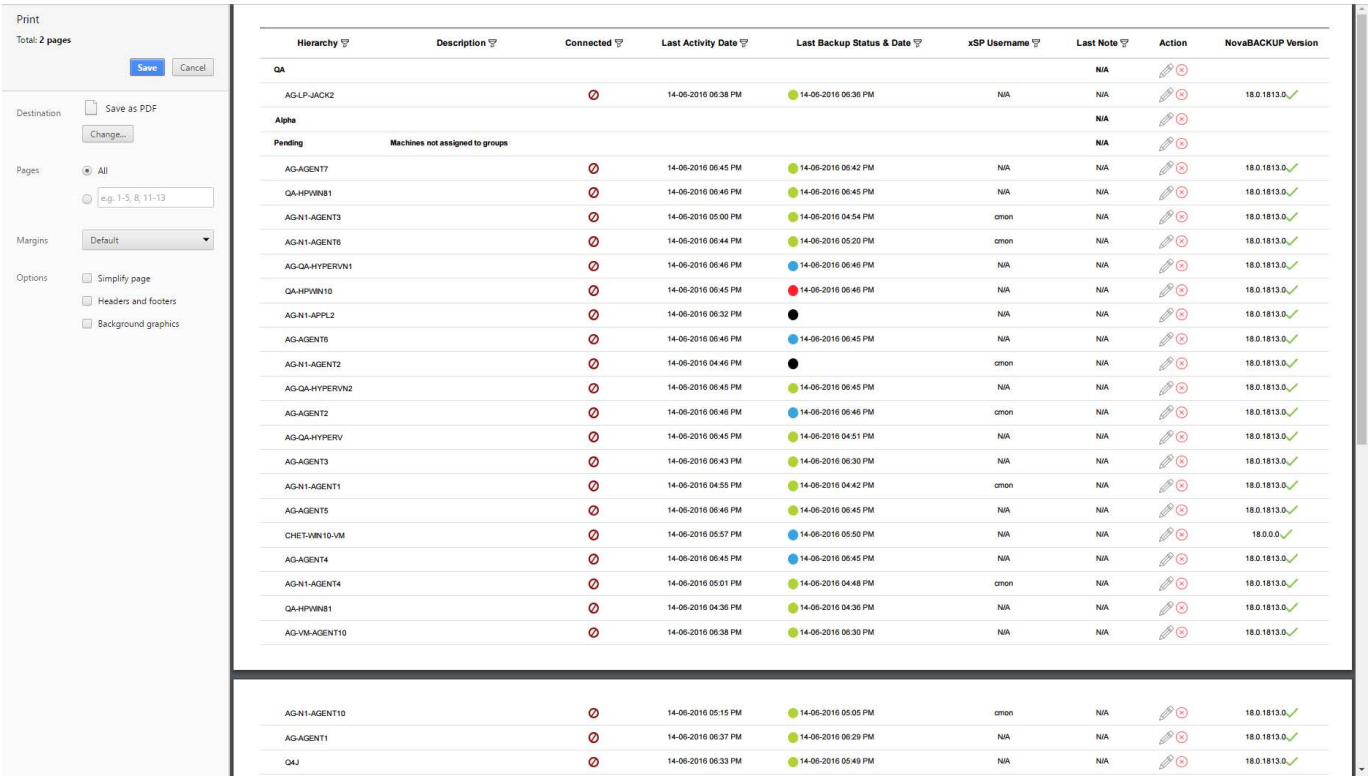
Agents & Groups - Add Group function example:

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



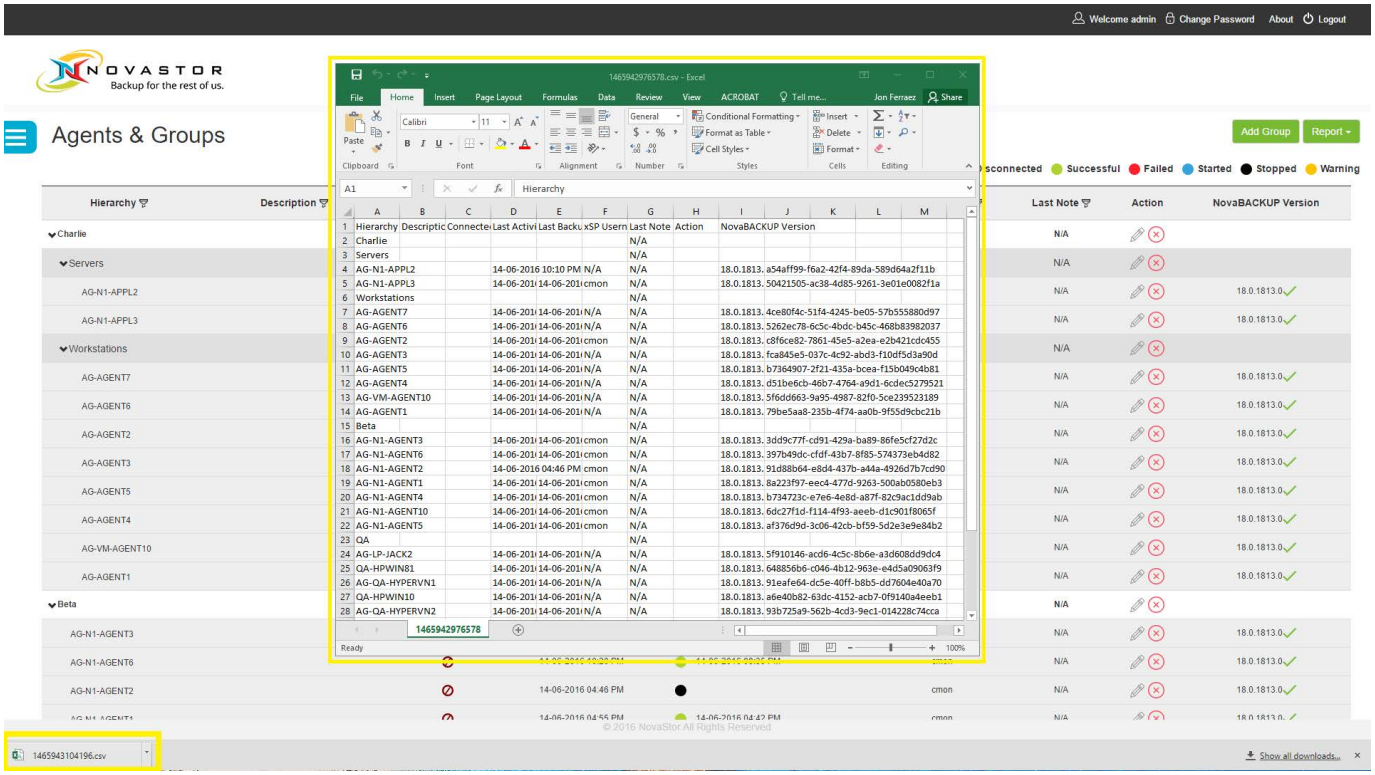
Agents & Groups - Print Report function example:

A Report of Agents & Groups can be printed. It will print which Agents & Groups exist currently; with their status displayed, such as NovaBACKUP Version. You can print to a printer, or "Save as PDF".



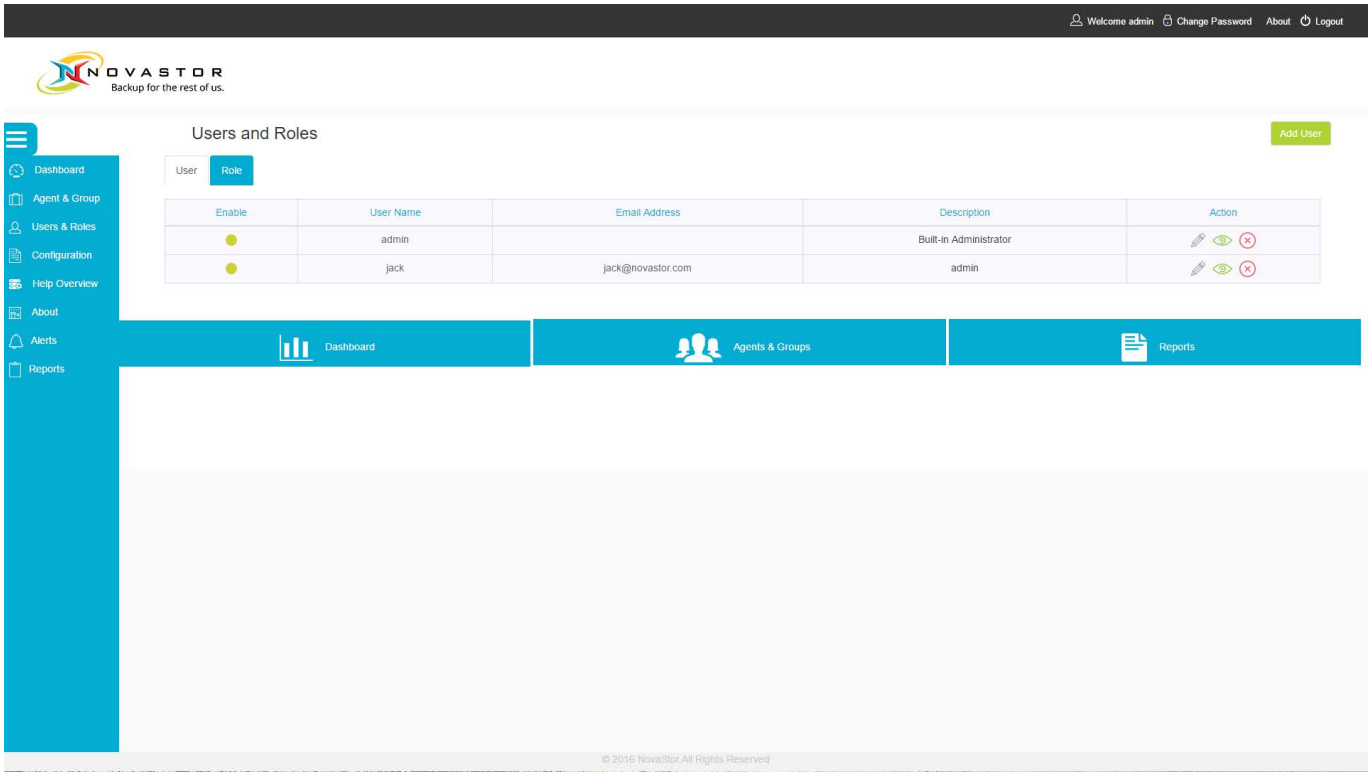
Agents & Groups - CSV Report function example:

A Report of Agents & Groups can be exported to CSV file. The function is in Agents & Groups, click on Report and then choose "CSV Report". CSV is a file format that can be viewed in Excel for instance.

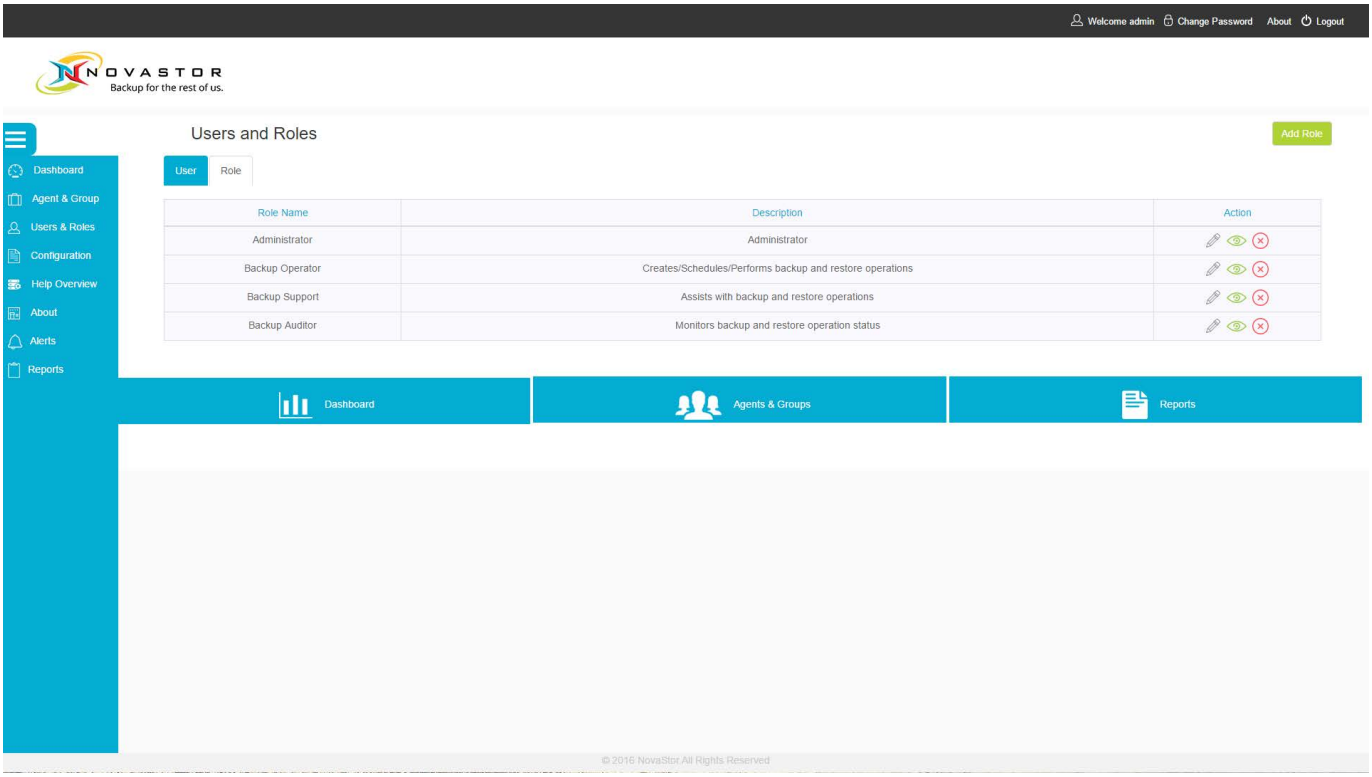


Users & Roles

"Users & Roles" is the area where you can set up CMon to work with more than just the single built-in "admin" account. Once in the "**User**" tab you have the ability to add users with the "**Add User**" function as well as define custom Roles for users via the "**Role**" tab.

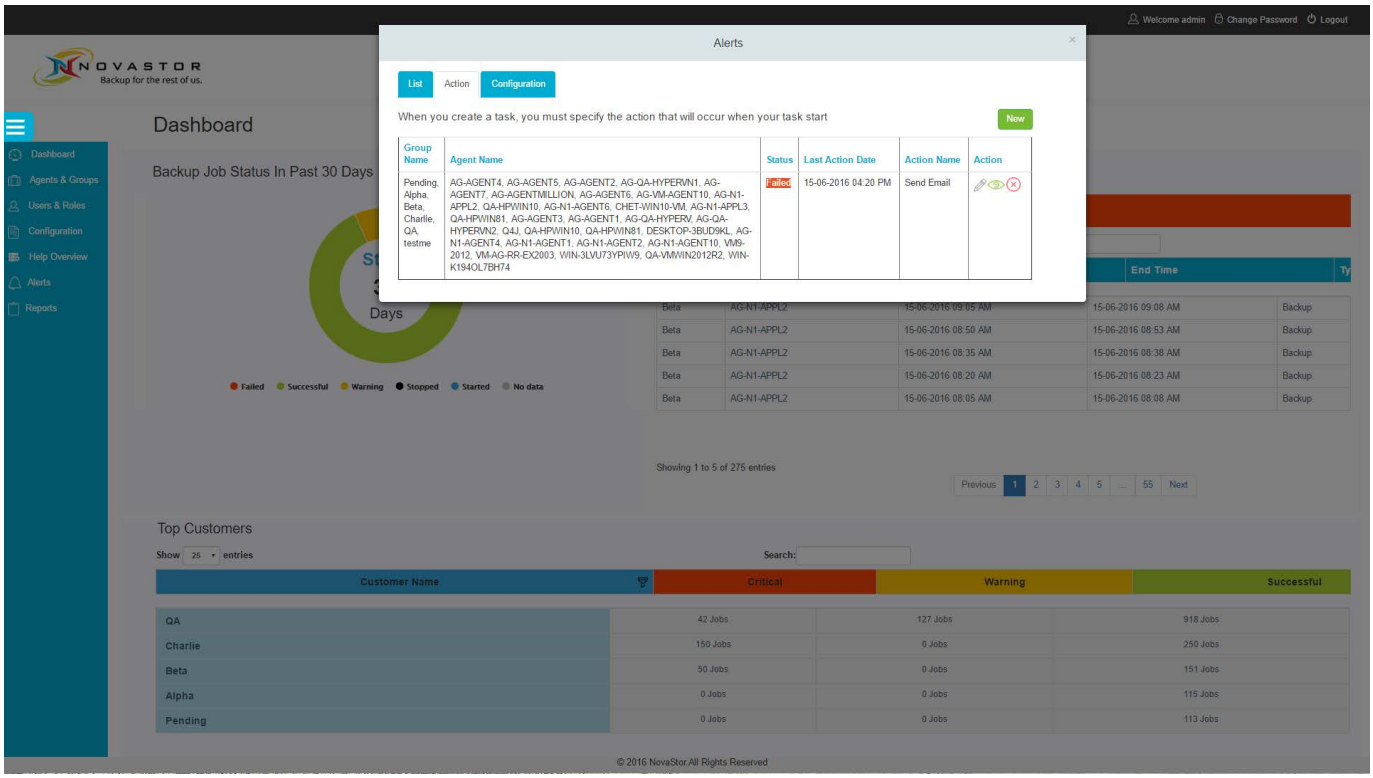


Users & Roles - "**Roles**" tab function contains the ability to create / edit Roles. Once in the Role tab you can click on "Add Role". From there you will be able to define a custom role and then assign current users to that role from a single interface.

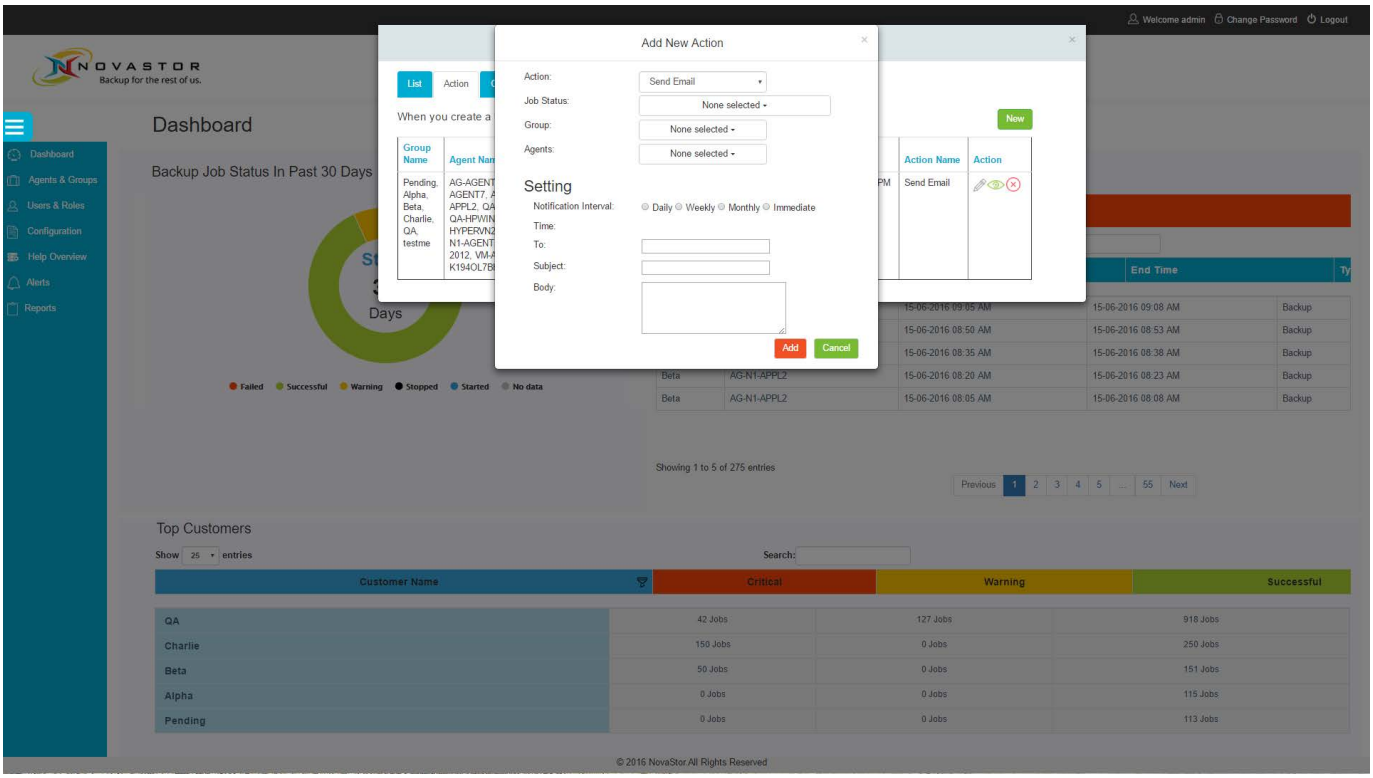


Alerts

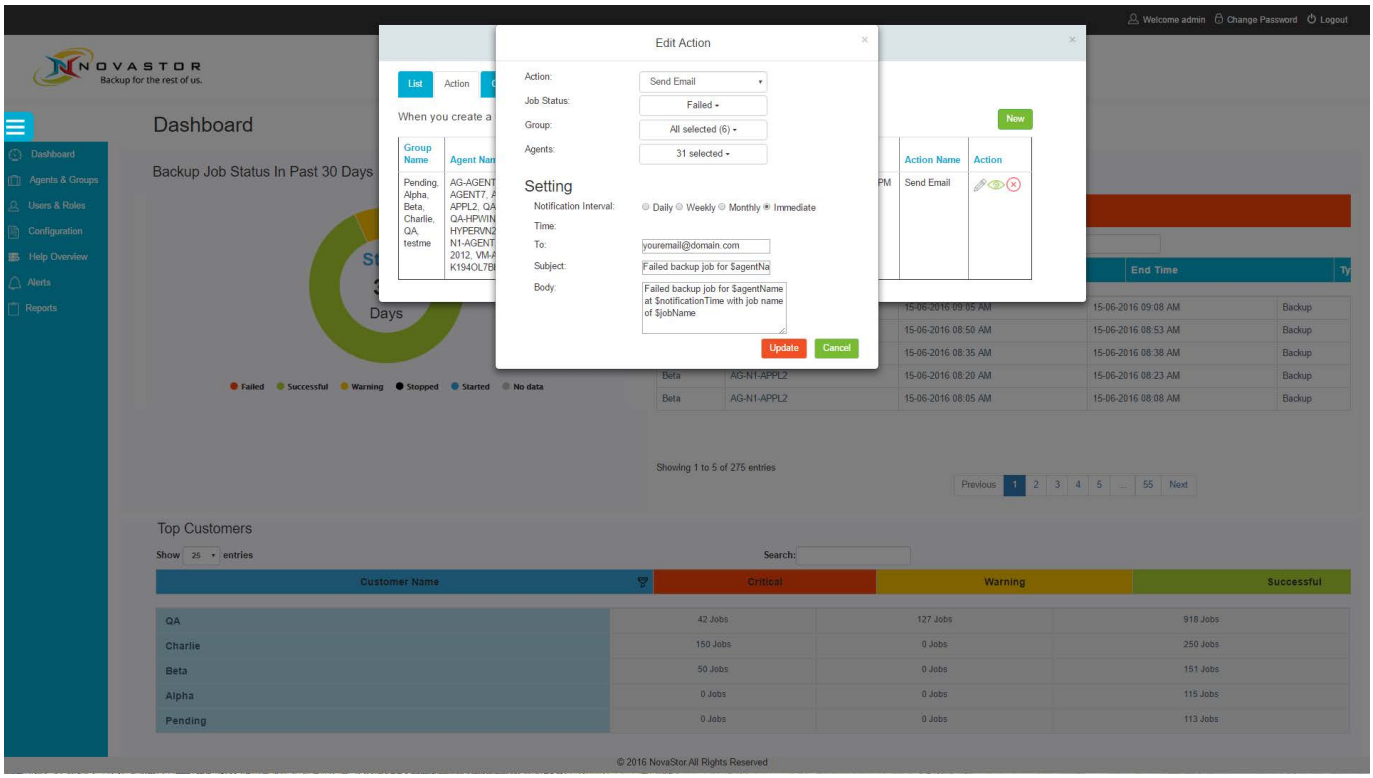
An **Alert** is a e-mail notification for selected groups of agents on an interval basis. A single Alert can be created for the entire group of agents even. The notification will be an e-mail sent to the e-mail addresses specified in the Alert configuration. The current alerts are shown in the "**Action**" tab.



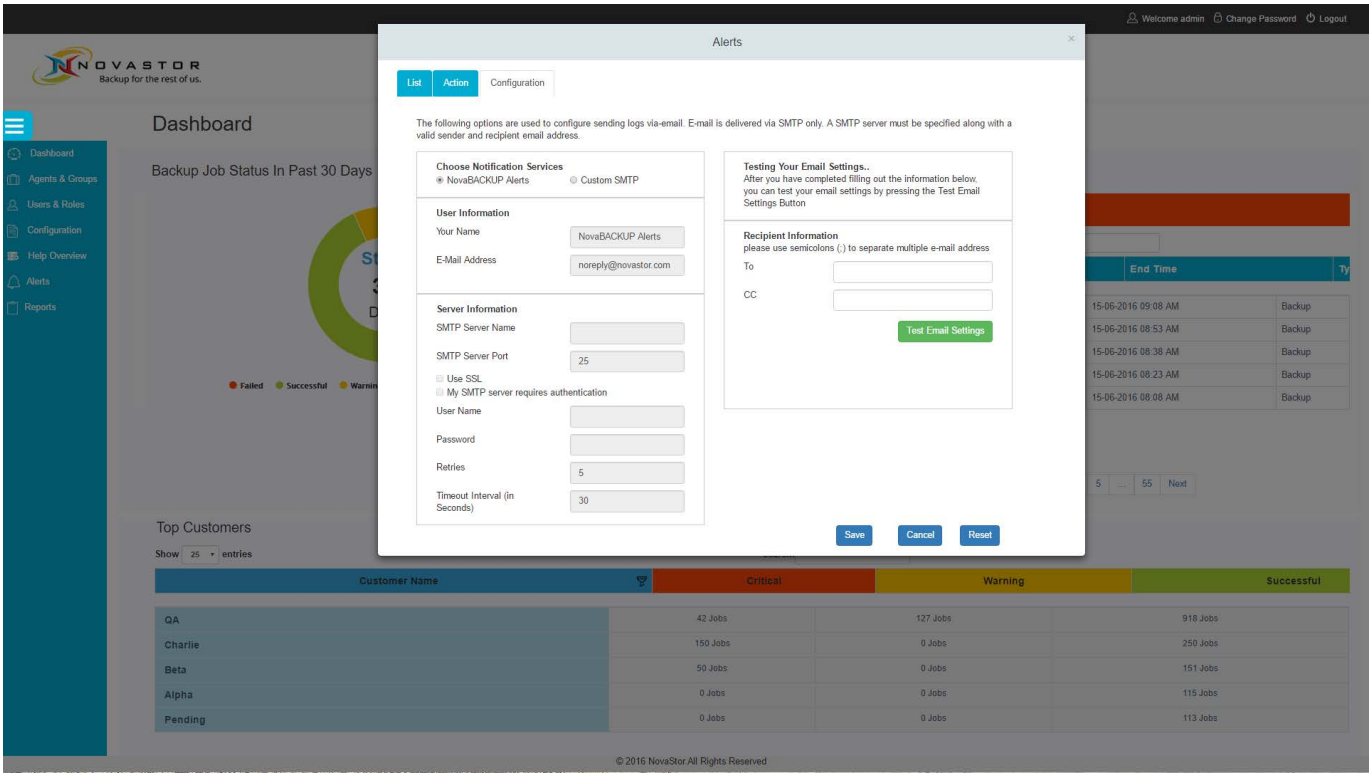
When creating a **new Alert**, you are asked some questions including the agents and groups that will be included in the alert. The "**Notification Interval**" choices are Daily, Weekly, Monthly and Immediate. You can set a custom subject, message text, etc. When done configuring click the Add button.



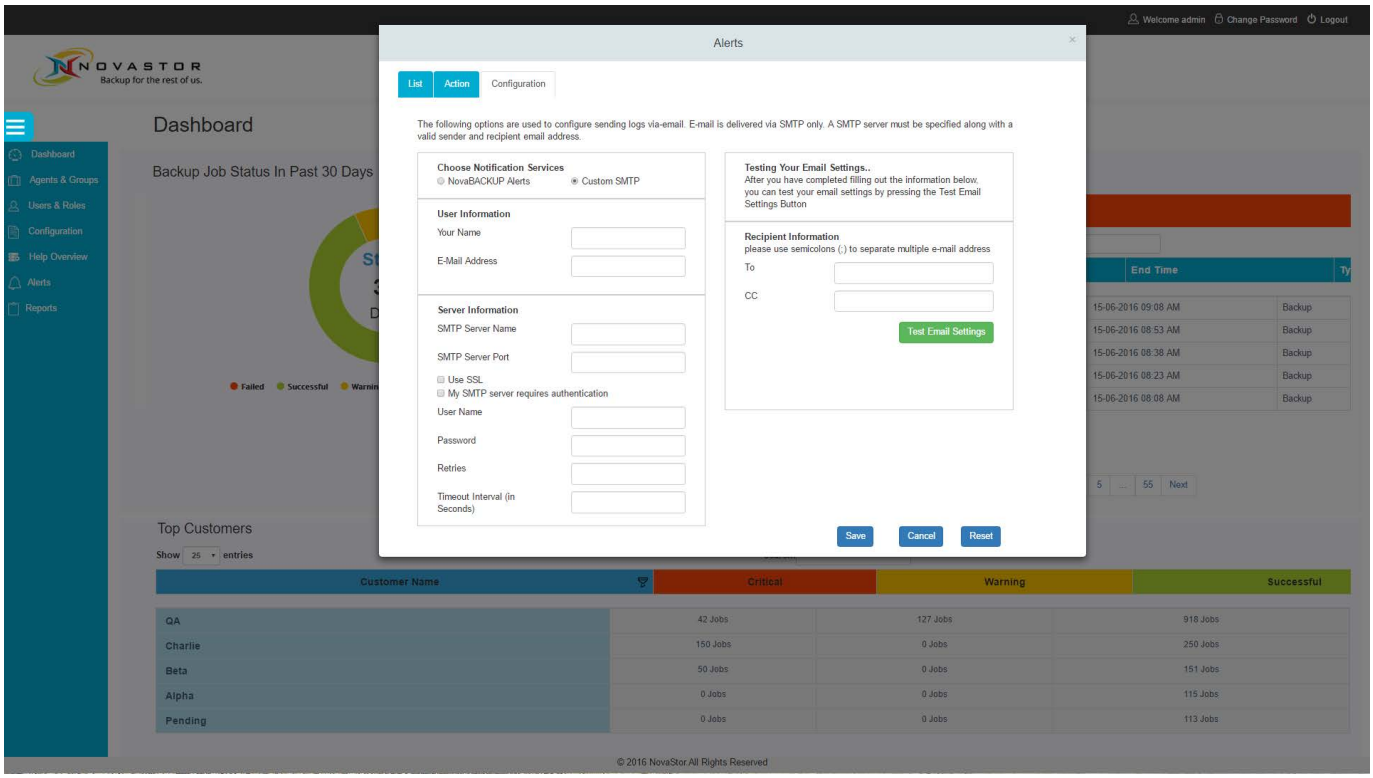
Once a **New Alert** is added you can perform the actions "**View Action**" or "**Edit Action**" on the existing Alert by clicking on the "green eye" looking icon on the right-side of the screen in the Action column, to "View Action". To "Edit Action" you can click the "pencil" looking icon on the right-side of the screen in the Action column. You can also "Delete Action" by clicking on the red "X" looking icon. Example:



To configure Alerts for how the **Alert e-mails** are sent you will click on the "**Configuration**" tab in the "**Alerts**" area as seen in the example below. Alert e-mails are delivered **by default** via the built-in "NovaBACKUP Alerts" SMTP service or via the Custom SMTP server that you define. Example:



An Alerts "**Custom SMTP**" server configuration example is shown below. 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 Alert e-mails will fail.



The **"Help Overview"** menu.

The "Help Overview" menu will allow you to view the CMon User Manual (PDF format). You can send us feedback by clicking the "Send Feedback" button on the right.