



Noventri Server

Manual



Noventri

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Note: Because Noventri frequently releases new versions and updates to its Noventri Digital Signage Software, images shown in this manual may be slightly different from what is actually displayed.

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Server Manual

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Chapter 1: Overview

Noventri Digital Signage Software

Noventri Digital Signage Software has two parts, the **Noventri Suite Software** and the **Noventri Server Software**.

Noventri Digital Signage Software - Suite

Noventri Suite Software is used for the design of **Projects**, and is the user interface for the **Server** (used for managing content and for controlling what is displayed by the **Players**). For more information, see the [Noventri Suite](#) manuals.

Noventri Digital Signage Software - Server

Noventri Server Software contains three components that are installed together:

Server - The **Server** is the main **Server** that runs in the background and accepts connections from **Noventri Suite** installations and **Players**, and acts as an interface between the two. For more information, see the [Server](#) section of this manual; Chapter 2.

Server Manager - The **Server Manager** is also a "server" that runs in the background. It manages the "main" **Server(s)** and accepts connections from the **Server Manager Tray**. For more information, see the [Server Manager](#) section of this manual; Chapter 3.

Server Manager Tray - The **Server Manager Tray** is accessed via the **Noventri Server** icon on the desktop and is the user interface for the **Server Manager**. For more information, see the [Server Manager Tray](#) section of this manual; Chapter 4.

Network Note: Active access to files across a network by the **Noventri Server** (for example, accessing a Database File) is allowed only if Windows service properties are configured correctly. For more information, see the [Network Considerations](#) section of this manual; Chapter 5.

Installation

Installation instructions for both **Noventri Suite Software** and **Noventri Server Software** are covered in the **Noventri Suite Design** manual. For more information, see the [Noventri Suite - Design Manual](#).

Noventri Server Software can be installed on the same computer as the **Noventri Suite Software** or can be installed on a separate computer.

Chapter 2: Server

Server - Summary

The **Server** is the main **Server** that runs in the background and accepts connections from **Players** and **Noventri Suite** instances, acting as an interface between the two. The **Server** manages; **Players**, **Users**, and relevant files for distributing content to the **Players**. It distributes the content as required to the **Players** and provides information through **Noventri Suite** to the user.

When **Noventri Server Software** is installed, it automatically defaults to having one **Server** created and ready to use (**Port 20940**).

When the computer, with the **Noventri Server Software** is turned on, the **Server** automatically runs in the background.

The **Server** needs to be in communication with the **Players** and with **Noventri Suite** for proper operation.

Server Connection to Players

Players can be pointed to the **Server** by opening the **Players Web-App** and setting the **Player's Noventri Server** field to the IP address (of the computer where the **Noventri Server** software is installed), followed by the **Port** (default 20940). For more information, see the [Noventri SF-200 Manual](#).

Server Connection to Suite

Noventri Suite connects to the **Server**, enabling **Noventri Suite** to access the **Players**. This connection is acquired from within **Noventri Suite**. Selecting anything within the **Noventri Suite** program that requires a connection to the **Server** will prompt a **Server Login**.



This will automatically open a **Server Login** window. If the **Server** and the **Suite** are installed on the same computer, the *default* login information is as shown below. For more information, see the [Noventri Suite - Design Manual](#).

Host:	localhost
Username:	Admin
Password:	noventri

Server Operation

Once the **Server** is connected to both **Player(s)** and **Noventri Suite**, it needs no additional configuration for *basic* operation. For more information, see the [Noventri Suite Manuals](#).

More advanced **Server** configuration is accessible through the **Server Manager**. For more information, see the [Server Manager](#) section of this manual; Chapter 3.

Chapter 3: Server Manager

Server Manager - Summary

The **Server Manager** is used for advanced **Server** configuration, such as creating additional **Servers** and configuring their settings.

When the **Noventri Server Software** is installed, the **Server Manager** is automatically installed.

The **Server Manager**, like the **Server**, is also a "server" that runs in the background. However, the **Server Manager** interacts with Windows as a service.

The **Server Manager** accepts connections from the **Server Manager Tray** (user interface), and using the **Server Manager Tray** input, manages the **Servers**.

Server Manager connection with the Server Manager Tray

The connection between the **Server Manager** and the **Server Manager Tray** is done from within the **Server Manager Tray**. For more information, see the [Server Manager Tray](#) section of this manual; Chapter 4.

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Chapter 4: Server Manager Tray

Server Manager Tray - Summary

The **Server Manager Tray** is the user interface for the **Server Manager**.

The **Server Manager Tray** via the **Server Manager** is used for advanced **Server** configuration, such as creating additional **Servers** and configuring their settings.

When the **Noventri Server Software** is installed, the **Server Manager Tray** is automatically installed as part of it.

Server Manager Tray connection to the Server Manager

The **Server Manager Tray** is accessed from the **Noventri Server** icon on the desktop (default location). When the **Server Manager** icon is selected the **Noventri Server Manager Login** window will open.



Server Manager Login Window

The **Noventri Server Manager Login** window is used to login to the **Server Manager**.



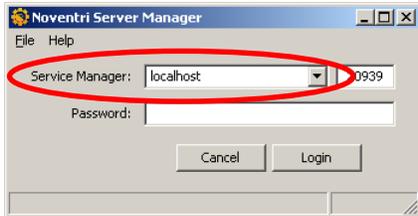
The *default* login information....

Service Manager:	localhost
Port:	20939
Password:	noventri

Note 1: The **Server Manager** that is being logged into can be located on the same computer as **Server Manager Tray** or can be located on a separate computer.

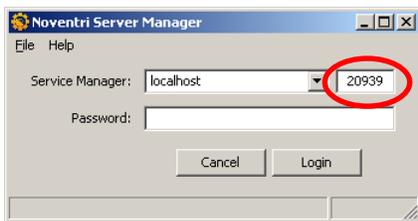
Note 2: Toolbar commands for the **Server Manager Login Window** and the **Server Manager Main Window** are basically the same. For more information, see the [Toolbar](#) section of this manual.

Service Manager – In the **Service Manager** box, enter the **IP Address** of the computer where the **Server Manager** is located. The IP Address can be entered manually or can be selected from the drop down menu. If the **Server Manager Tray** and the **Server Manager** are located on the same computer, use localhost (default).



Note: When logging into a **Server Manager** that is not located on the same computer; access is only allowed if the **Server Manager** on the other computer has its **Remote Administration** option enabled. For more information, see the [Advanced Tab](#) section of this manual.

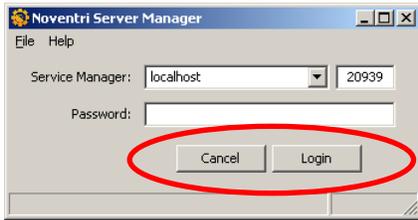
Port – In the **Port** box, enter the **Port** number. Just as the **Server** has a **Port** number; with the localhost default being 20940, the **Server Manager** also has a **Port** number; with the localhost default being 20939.



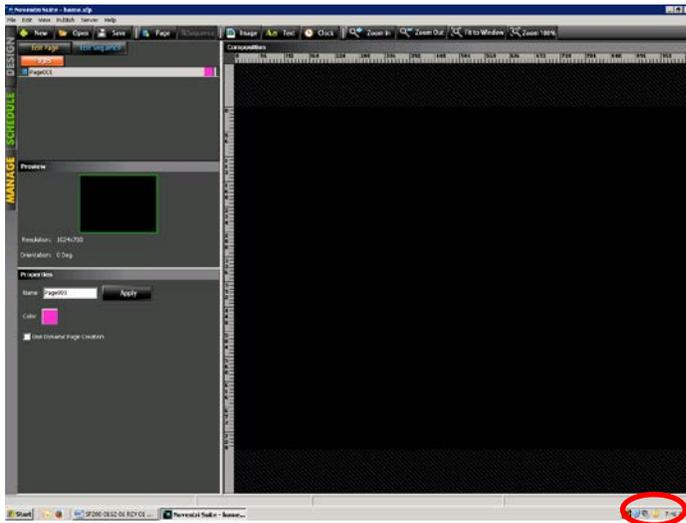
Password – In the **Password** box, enter the **Password** for the **Server Manager**. The default **Password** is **noventri**.



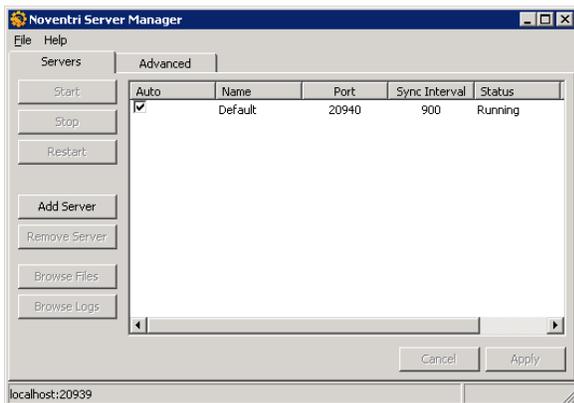
Once all the **Login** information is correct, select the **Login** button, or to close the window without logging in, select the **Cancel** button.



Note: Selecting the **Cancel** button will close the window; however the **Server Manager Tray** will remain active with its icon in the Windows System Tray.

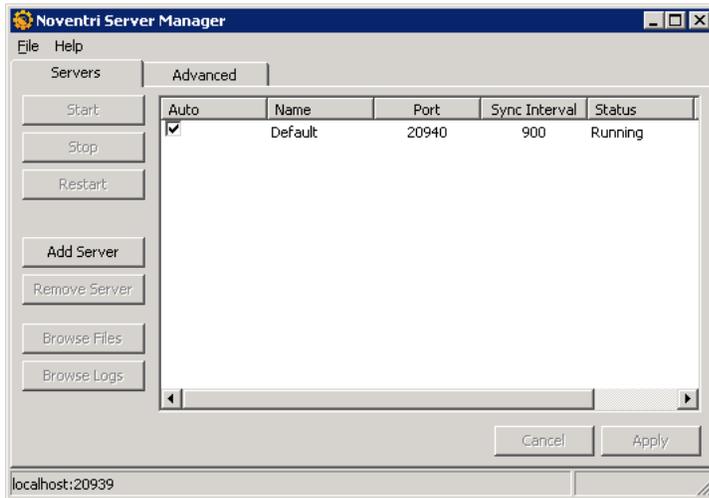


Once the **Login** is successful, the **Noventri Server Manager** window will open. For more information, see the [Server Manager Main Window](#) section of this manual.



Server Manager Main Window

Once the **Login** is successful, the **Noventri Server Manager** main window will open.



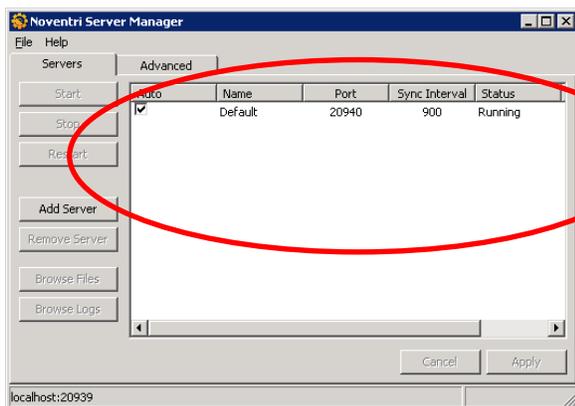
Note: Toolbar commands for the **Server Manager Login Window** and the **Server Manager Main Window** are basically the same. For more information, see the [Toolbar](#) section of this manual.

Servers Tab

The **Servers** tab is where individual **Servers** are listed and handled. In this tab, **Servers** can be **Added/Removed** or **Started/Stopped**.

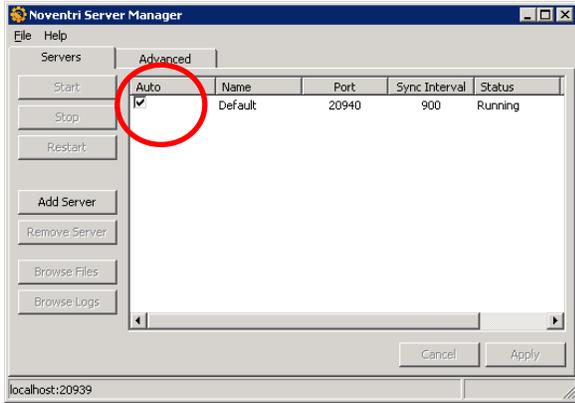
When the **Noventri Server Software** was installed, a default **Server** was automatically created at **Port 20940**.

The **Server** stats panel shows the automatically created default **Server** along with any other **Servers** that are controlled by this **Server Manager**.

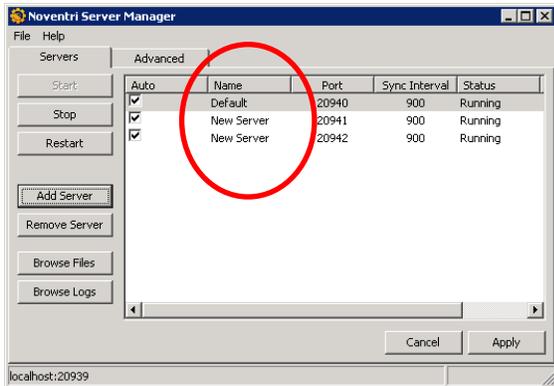


The **Server** stats panel has columns showing the settings for each of the **Servers**.

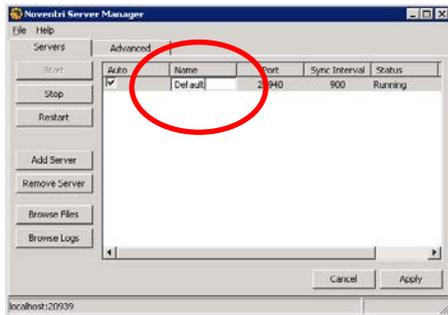
Auto - When the **Auto** check box is selected; that **Server** will automatically run in the background when the computer is turned on.



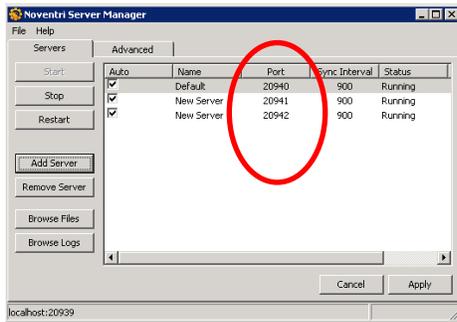
Name - The **Server** that was automatically created when the **Noventri Server Software** was installed is **Named - Default**. Any additional **Servers** that are created will be **Named – New Server**.



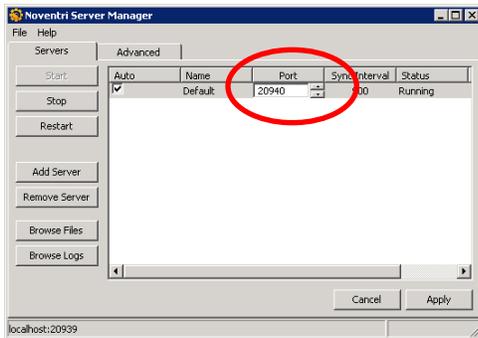
To change the **Name** of any of the **Servers**, double click on the **Name** and it will become an editable text box, where a new **Name** can be typed in.



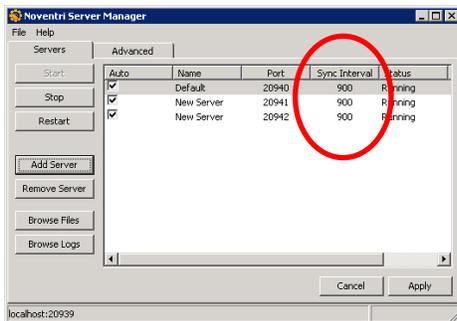
Port - The **Port** for the **Server** that was automatically created when the **Noventri Server Software** was installed is 20940. Any additional **Servers** that are created will be assigned **Port** numbers sequentially. No two **Servers** on the same computer may share the same **Port** number.



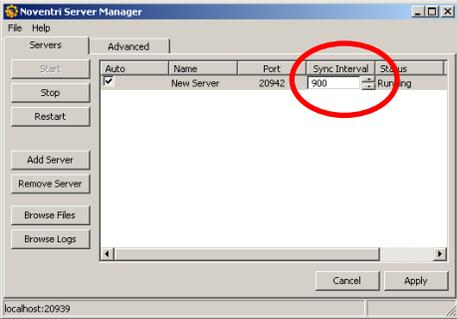
To change the **Port** of any of the **Servers**, double click on the **Port** and it will become an editable text box, where a new **Port** number can be selected.



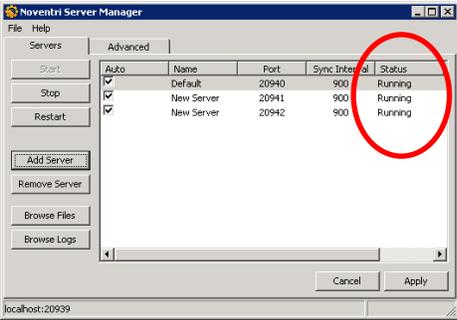
Sync Interval - The **Sync Interval** for all **Servers** defaults to 900mS (.9 seconds). This is the time interval of how often the **Status** shown on this panel will receive an update from the **Server**.



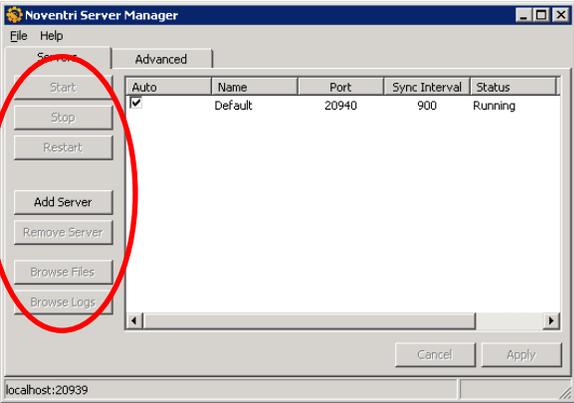
To change the **Sync Interval** for any of the **Servers**, double click on the **Sync Interval** and it will become an editable text box, where a new **Sync Interval** in mS can be selected.



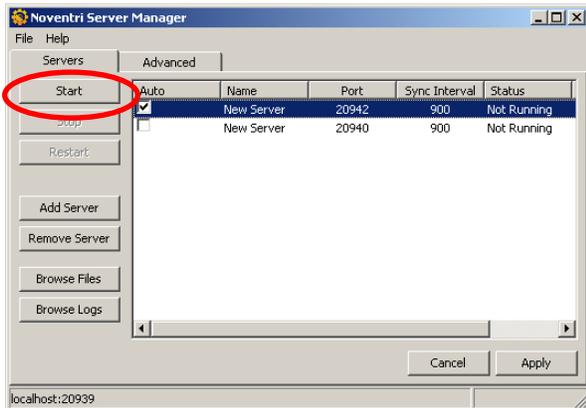
Status - The **Status** column shows the current **Status** for each **Server**. The **Status** is received from the **Player**.



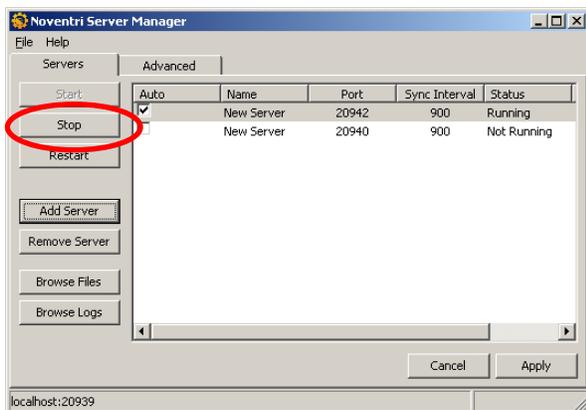
The **Servers** tab also has a list of command buttons on the left.



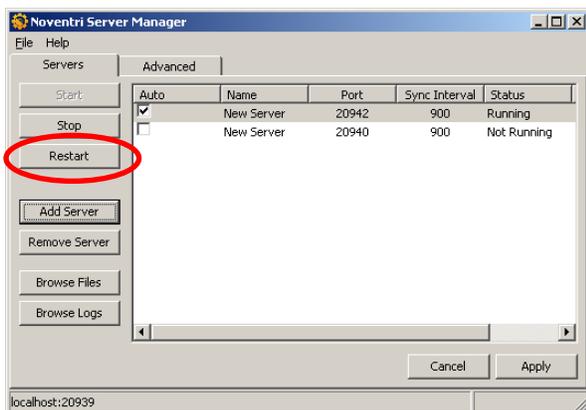
Start - The **Start** button is used to start a **Server**. When a **Server** is started, its **Status** will change to **Running**. The **Server** will then be the interface between the **Players** and **Noventri Suite** installations that are connected to it.



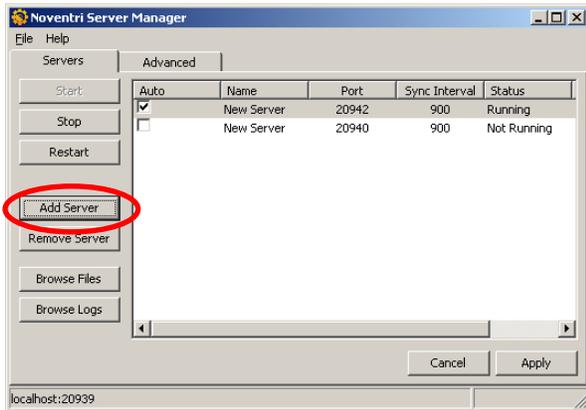
Stop - The **Stop** button is used to stop a **Server** that is **Running**. When a **Server** is stopped, its **Status** will change to **Not Running** and it will no longer be connected to any of the **Players** or **Noventri Suite** installations.



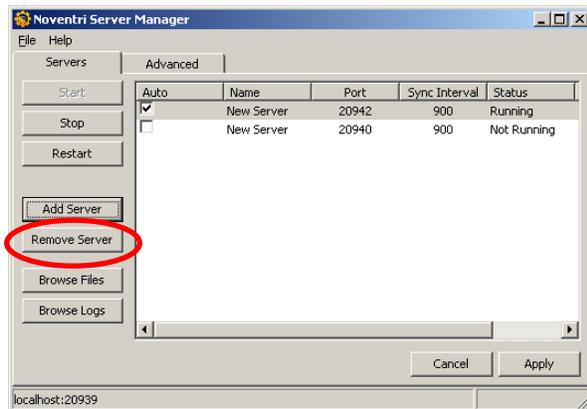
Restart - The **Restart** button is used to restart a **Server** that is **Running**. When a **Server** is restarted, it will temporarily stop and then start again. Its **Status** will eventually go back to **Running** once it has fully restarted.



Add Server - The **Add Server** button allows multiple **Servers** to be created. As **Servers** are created they will automatically be assigned **Port** numbers sequentially. Each **Server** will be completely independent of the others.

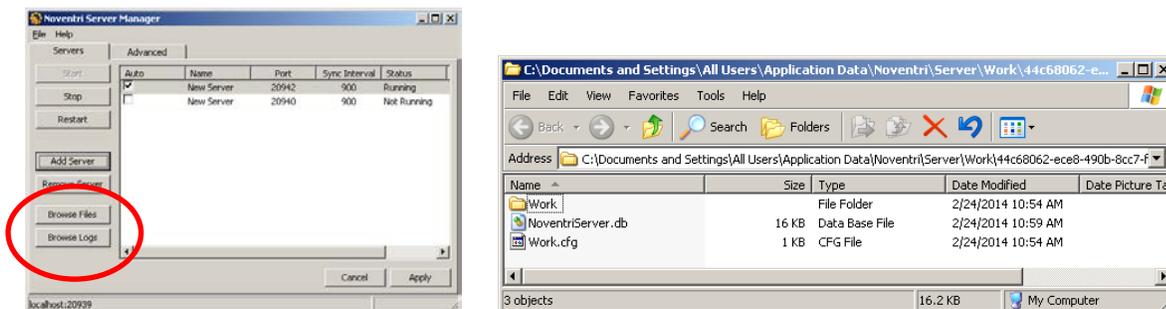


Remove Server - The **Remove Server** button allows **Servers** to be removed. Select the **Server** and then press the **Remove Server** button.



Browse Files\Browse Logs - The **Browse Files\Browse Logs** buttons allow access to the **Noventri Suite** and **Player** files that are saved on the **Server**. Unlike viewing **Server** files from within **Noventri Suite** (where only specific files are viewable), when viewing them through the **Server Tray**, the entire tree structure is visible, therefore all files can be seen.

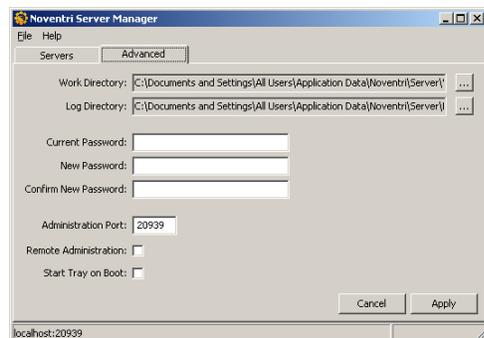
Note: Although the **Files/Logs** for *all* the **Servers** can be browsed here. When viewing **Server Files/Logs** through **Noventri Suite** installations, the only files accessible will be for the **Server** the **Suite** is connected to.



Note: When **Browsing** to a location on the network, be sure to always use the UNC Path (Universal Naming Convention, which typically contains (\\server...)). Do not use a path containing a shortcut (such as m:\).

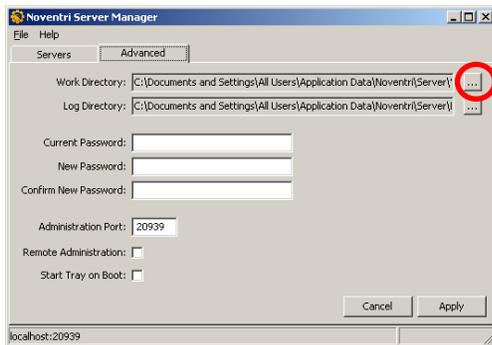
Advanced Tab

In the **Advanced** tab, the **Work/Log Directory** locations for the "main" **Servers** can be changed. The **Password/Port/Remote** access can be changed for the **Server Manager "server"**, or the **Server Manager Tray** can be set to automatically open (on boot up) in the Windows Start Tray.



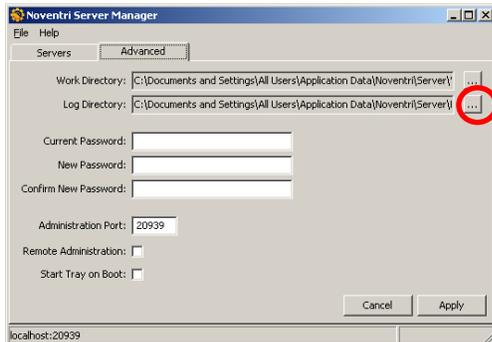
Work Directory - The **Work Directory** is the location where files used by the "main" **Server(s)** are stored. This includes **Project** files, **Schedules**, **Images**, etc. Within this directory, each **Server** will have a separate sub folder. It is recommended to use the default location; however the location can be changed here by selecting the **Browse** button and browsing to the desired new location, and then selecting **OK**.

Note: When **Browsing** to a location on the network, be sure to always use the UNC Path (Universal Naming Convention, which typically contains (\\server...)). Do not use a path containing a shortcut (such as m:).

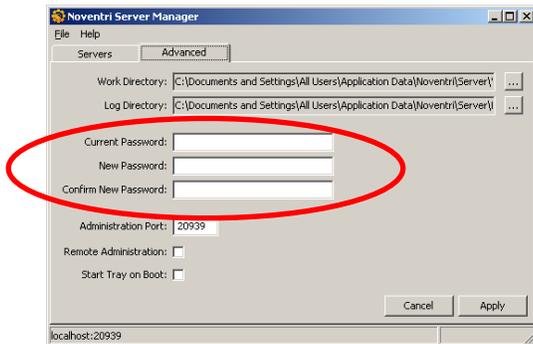


Log Directory - The **Log Directory** is the location where **Log** files are stored by the "main" **Server(s)**. Within this directory each **Server** will have a separate sub folder. It is recommended to use the default location; however the location can be changed here by selecting the **Browse** button and browsing to the desired new location, and then selecting **OK**.

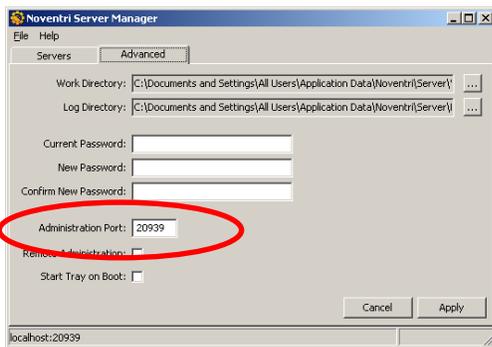
Note: When **Browsing** to a location on the network, be sure to always use the UNC Path (Universal Naming Convention, which typically contains (\\server...)). Do not use a path containing a shortcut (such as m:).



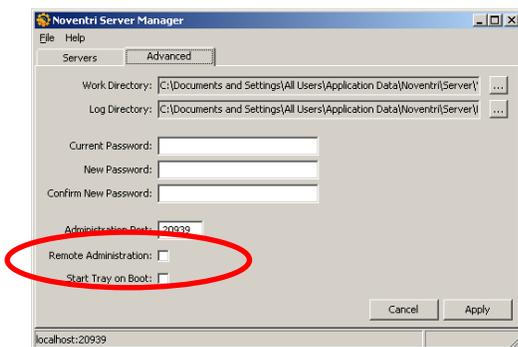
Password - The **Current/New/Confirm Password** boxes allow the **Server Manager "server" Password** to be changed. The default **Password** is noventri.



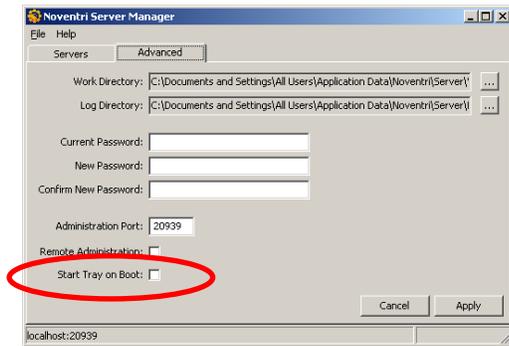
Administration Port - The **Administration Port** is the **Port** for the **Server Manager "server"**. Just as the "main" **Server(s)** have a **Port** numbers; with the localhost default being 20940, the **Server Manager "server"** also has a **Port** number; with the localhost default being 20939. The **Administration Port** box allows the **Port** for the **Server Manager "server"** to be changed.



Remote Administration - The **Remote Administration** option allows this **Server Manager "server"** to be logged into from **Server Managers Trays** located on other computers. Select the **Remote Administration** check box to allow these remote connections.



Start Tray on Boot – When the **Start Tray on Boot** option is selected, the **Server Manager Tray** will automatically open (on boot up) and be hidden to the Windows Start Tray.

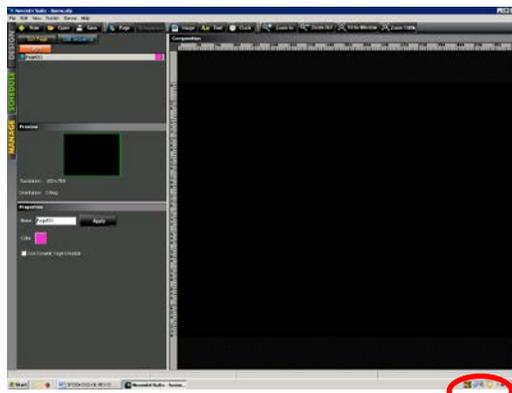
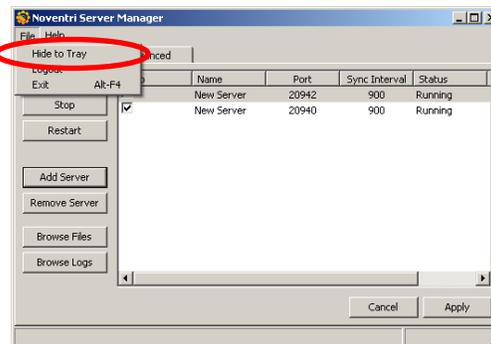


Apply/Cancel - Once all the information is correct in **Noventri Server Manager** main window (**Servers** tab and **Advanced** tab), select the **Apply** button to save, or to close the window without saving, select the **Cancel** button.

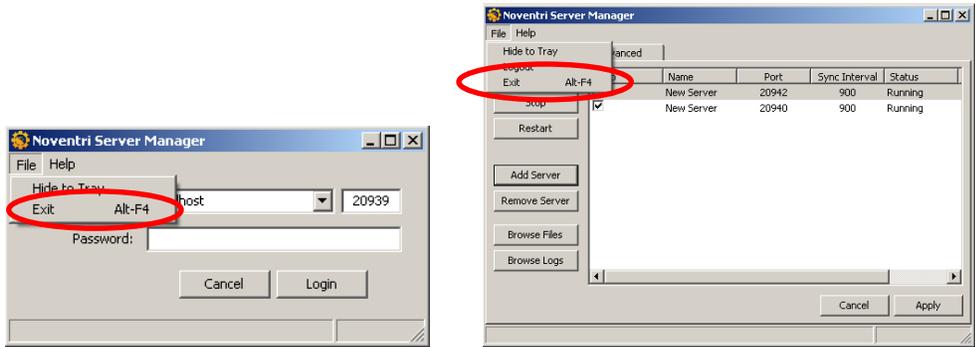
Toolbar

The toolbar commands for the **Server Manager Login Window** and the **Server Manager Main Window** are basically the same.

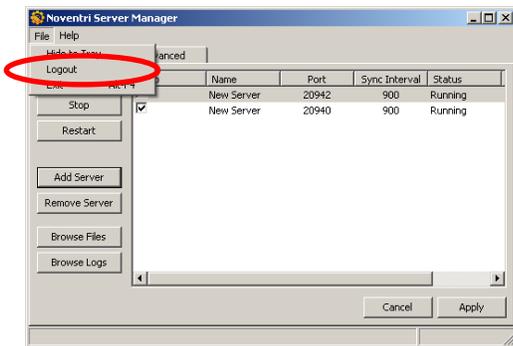
File > Hide to Tray – This option will close the window, and cause the **Server Manager Tray** icon to be displayed in the Windows System Tray.



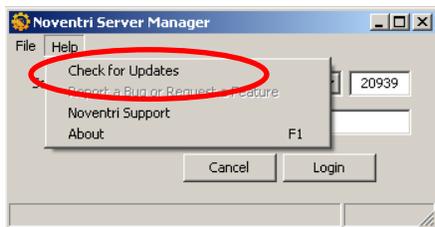
File > Exit – This option will also close the window, however the **Exit** option will truly close the **Server Manager Tray** application and its icon will not be displayed in the Windows System Tray. The keys **Alt-F4** can also be used.



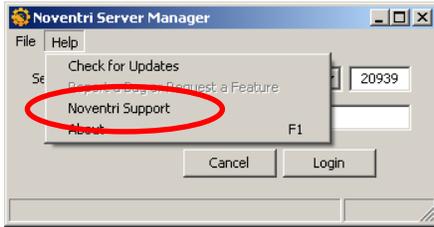
File > Logout – This option will close the **Server Manager Main Window** and return to the **Server Manager Login Window**.



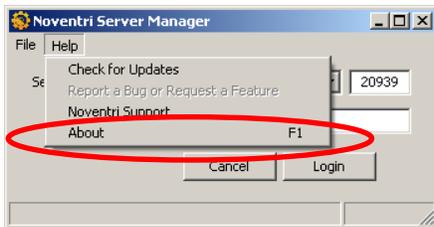
Help > Check for Updates – This option will direct you to the **Noventri** web site, www.noventri.com/forum where the current **Noventri Server Software** can be downloaded.



Help > Noventri Support – This option will direct you to the **Support Center** on our web site: www.noventri.com/forum.



Help > About – This option will open a window that shows the current **Contact** information for **Noventri**, **License Agreement**, and the **Noventri Server – Version** being used. The **F1** key can also be used.



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Chapter 5: Network Considerations

Network Considerations - Summary

Active access to files across a network by the **Noventri Server** is allowed only if Windows service properties are configured correctly. Files that need to be actively accessed across a network include **Database Files** and also any **Image** or **Text** files that are chosen to *not* be copied to the **Server**.

Windows service properties need to be configured so the **Server** is allowed access to the files on a regular basis. This is done by setting the **Service Manager** "server" (service) to **User** instead of **Local System**.

Windows Service - General

If a **Service** is automatically started (when the computer is turned on) the default state of the **Service** will be to run as a **Local System - Service**. Any **Process** started by the **Service** will run as a **System - Process**. In this state they will not have permission to access files across the network.

To have permission to access files across the network, the **Service** needs to run as a **User - Service** instead of a **Local System - Service**. This in turn will cause its **Process** to run as a **User - Process** instead of a **System - Process**.

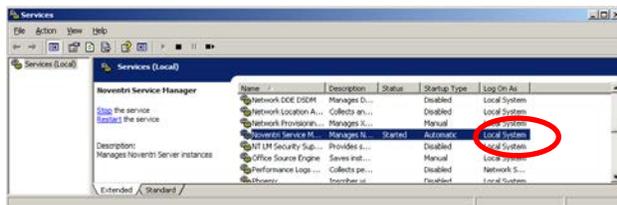
A **Service** and therefore its **Process** will run in a **User** state if it is started manually, or if it is specifically configured to automatically start (when the computer is turned on) as a **User - Service**.

Noventri Server Manager – System Service/Process

When the **Noventri Server** components are installed, the **Server Manager** is will automatically run as a Windows Service (when the computer is turned on) and by default will be a **Local System - Service** and therefore a **System - Process** also. Any *main Noventri Servers* managed by this **Server Manager** will have the same permission limitations.

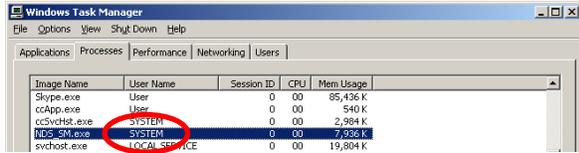
Service state can be seen in the Windows Service window...

Start > Settings > Control Panel > Administrative Tools > Services > Noventri Server Manager



Process state can be seen in the Windows Task Manager window...

Ctrl+Alt+Del > Processes > NDS_SM.exe

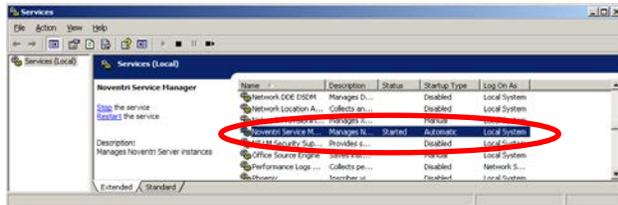


Noventri Server Manager – User Service/Process

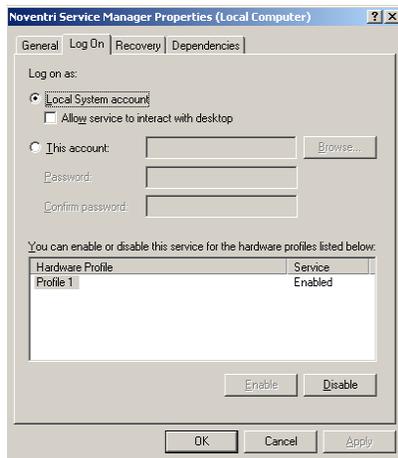
To change the **Noventri Server Manager** to automatically run (when the computer is turned on) with its **Service** and **Process** in a **User** state, and therefore be allowed permission to access files over the network, the **Service** properties have to be updated.

Navigate to the **Service**...

Start > Settings > Control Panel > Administrative Tools > Services > Noventri Server Manager

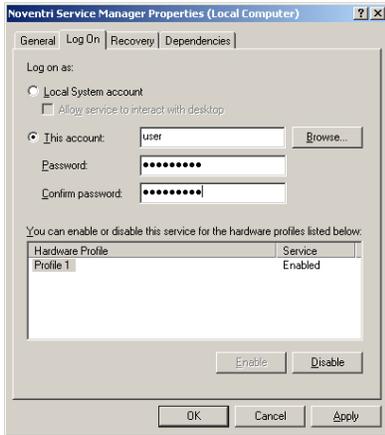


Double click on it to open its properties window then select the Log On tab...

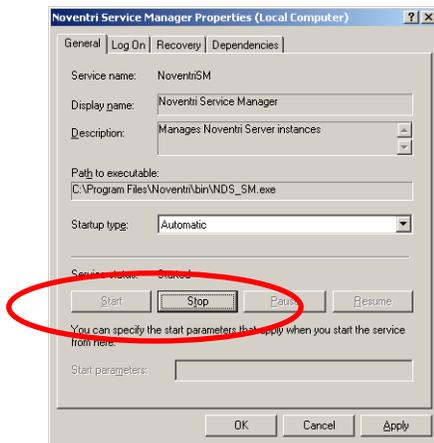


Select the *This Account* radio button, fill in the account as **User**, and enter the computer Password, select Apply, and then OK.

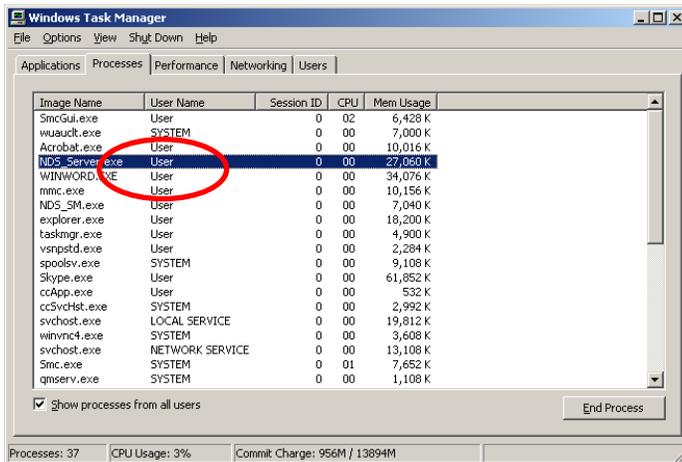
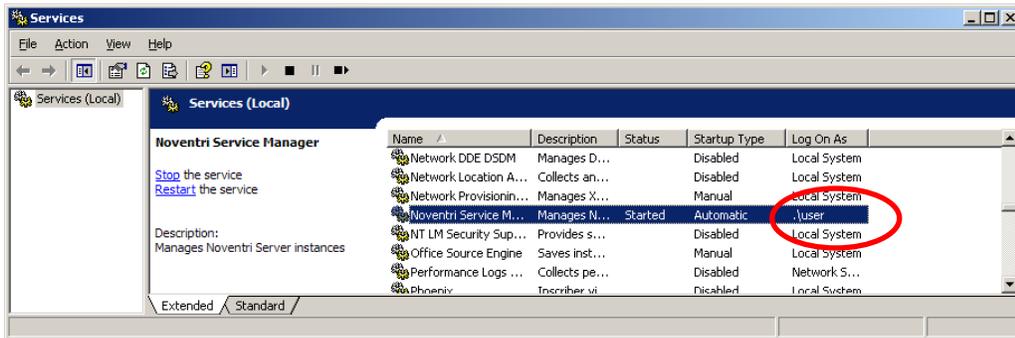
Note: The account **User** will automatically be changed to the correct format once Apply is selected.



The **Service** will now need to be Stopped and re-Started under the General tab for the change to take effect...



The Service will now run as a **User – Service** instead of a **Local System – Service** and the **Process** will run as a **User – Process** instead of a **System – Process**. Database files or **Image/Text** files can now be actively accessed over the network without having to copy them to the **Server**.



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