



# Creating a FileShare Cluster using Storage Foundation 5.1 for Windows Service Pack 2

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# WELCOME

**Thank you for selecting our Symantec Guide to creating a FileShare Cluster using Storage Foundation 5.1 for Windows Service Pack 2!**

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This guide will walk users of the Veritas Cluster Server software through creating a FileShare cluster using the Veritas Cluster Configuration Wizard and the Veritas FileShare Configuration Wizard.

## Objectives:

- Create the necessary Disk Group and Volume within the Veritas Enterprise Administrator.
- Create a cluster using the Veritas Cluster Configuration Wizard.
- Utilize the Veritas FileShare Configuration Wizard to create a new Fileshare.
- Access the FileShare via Windows Explorer.

# Creating a Cluster Dynamic Disk Group and a New Volume

The following section details the use of the **New Dynamic Disk Group** and the **New Volume wizards** in order to create a **Cluster Dynamic Disk Group** that will be used in the creation of the FileShare cluster.

The Veritas Storage Foundation for Windows Administrator Guide will provide more detail regarding these items.

If users are already familiar with these steps, please move forward to the portion of the guide for utilizing the Veritas Cluster Configuration Wizard.



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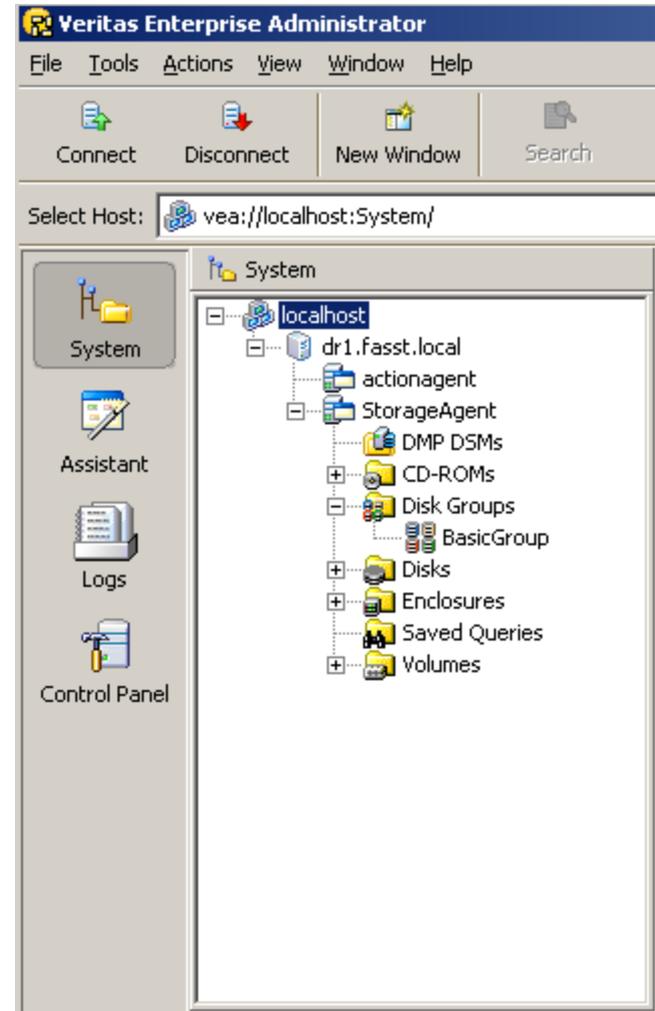
# Creating a Cluster Dynamic Disk Group and New Volume

In order to create a FileShare service with High Availability, which allows for the service to move from one server to another in the event of an issue, the FileShare should be set to utilize a shared Volume for data.

In this situation, the shared Volume can be managed by creating a **Cluster Dynamic Disk Group** within the **Veritas Enterprise Administrator** interface.

By default, VEA will display the Basic Group. This group contains all disks that can be seen by this server, which have not been converted to a Dynamic Disk.

In the next few slides, we will discuss creating a Dynamic Disk Group used specifically by clustering software, and a new Volume on shared storage.

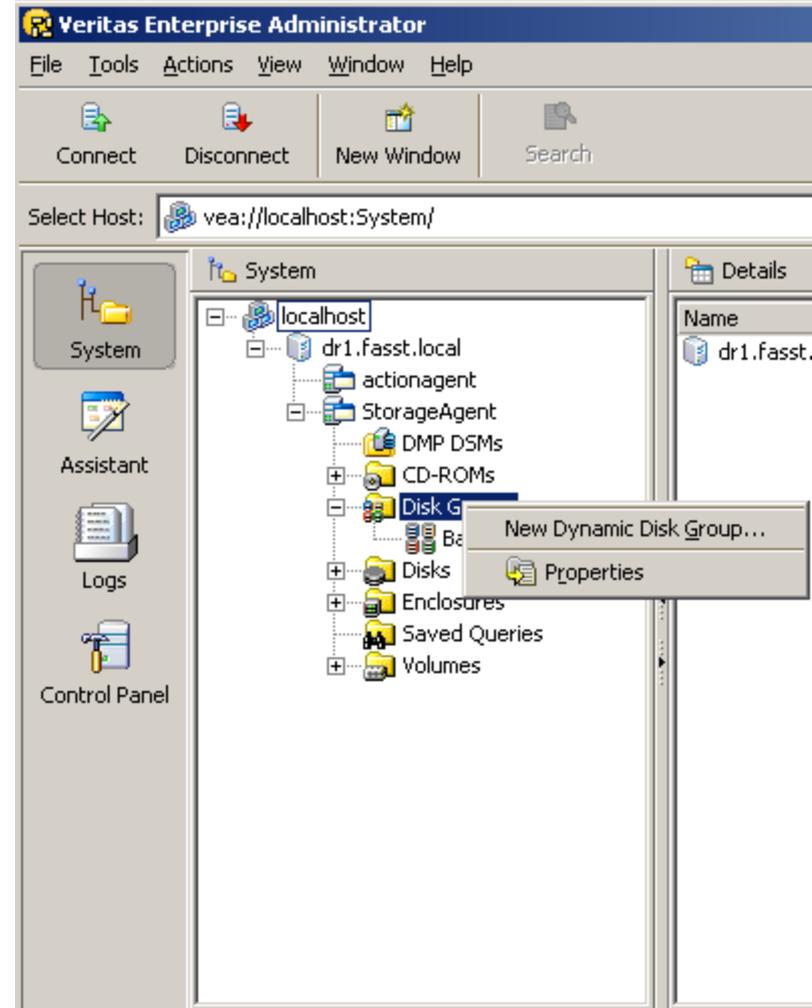


# Creating a Cluster Dynamic Disk Group and New Volume

The first step in creating a Disk Group will be to determine what this disk group will be used for, as well as how much storage is needed.

Once these items are determined, creating a Dynamic Disk Group is as easy as right clicking on the Disk Group heading in the System pane of the VEA interface.

When the context menu comes up, simply select the option for ***New Dynamic Disk Group***.



# Creating a Cluster Dynamic Disk Group and New Volume

In the **New Dynamic Disk Group Wizard**, users will need to do the following:

1. Enter the name of the Disk Group.
2. Choose the disks to be used.
3. Choose from these types of Disk Group:

- **Cluster Group**

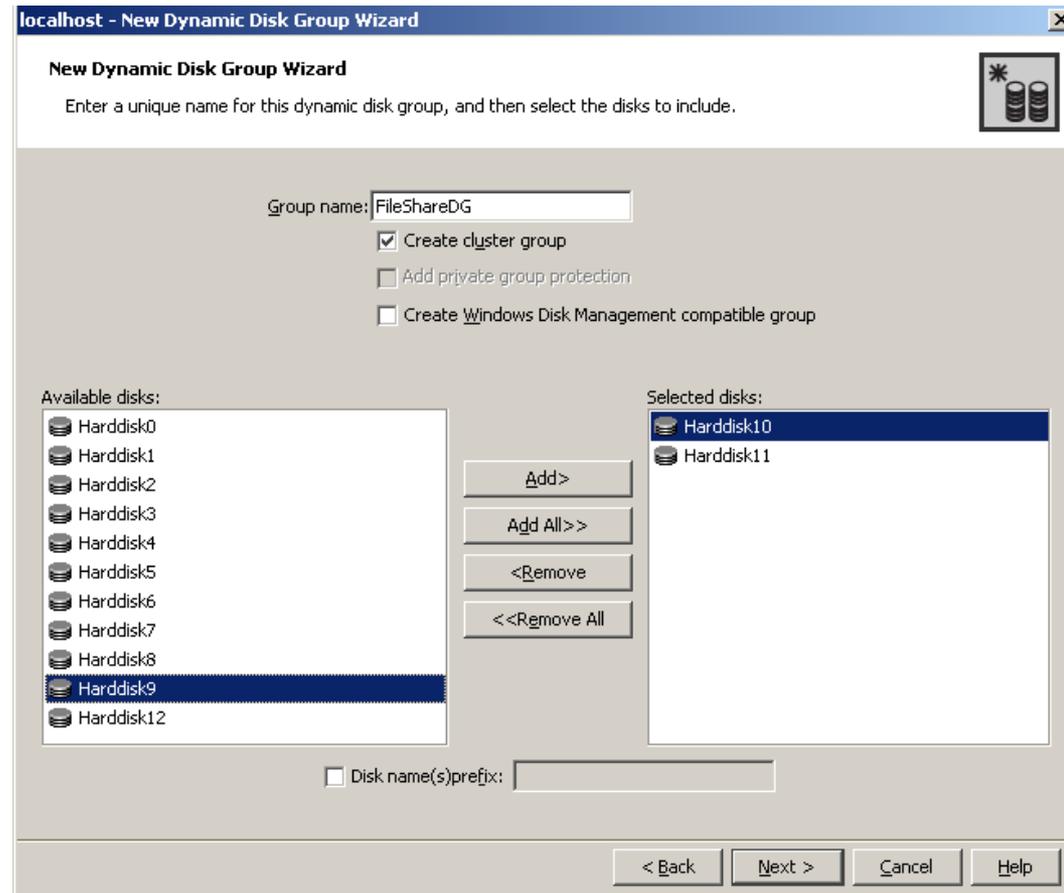
- Used by clustering software

- **Windows Compatible Group**

- Like a Basic Disk, but can be resized

- **Standard Dynamic Group**

- The default Dynamic Group



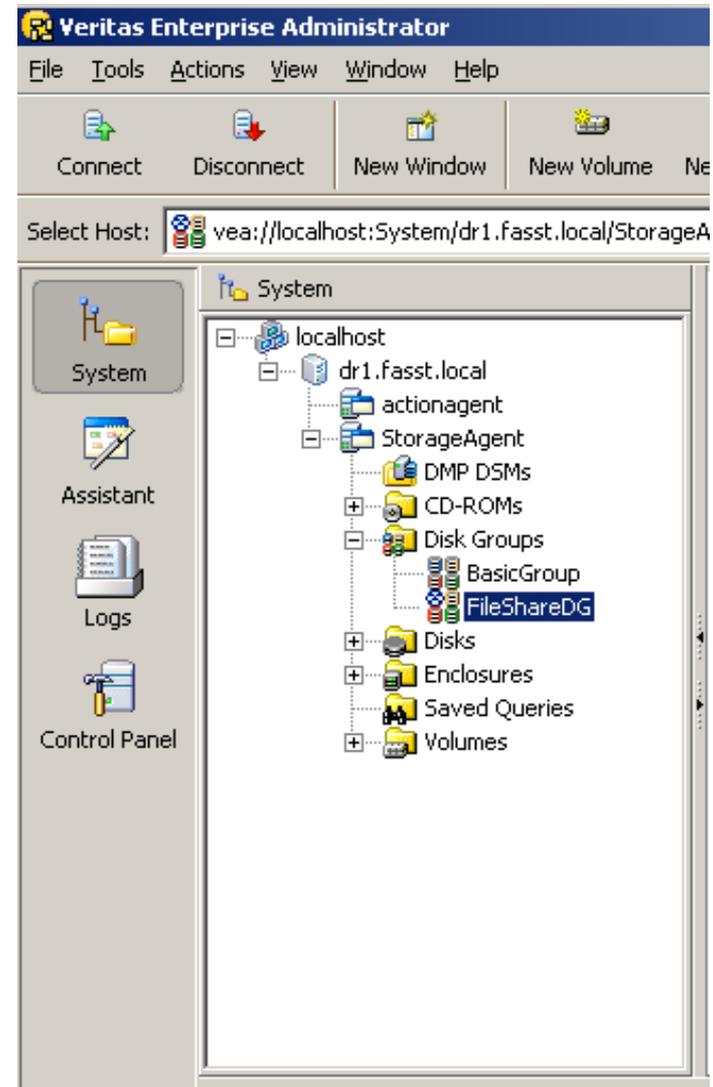
# Creating a Cluster Dynamic Disk Group and New Volume

At the completion of the **New Dynamic Disk Group Wizard**, the created Disk Group can be seen listed with the Basic Group in the VEA interface.

For our purpose with this guide, we've created a **Cluster Dynamic Disk Group**, with the name **FileShareDG**.

This disk group will be used moving forward in the creation of our FileShare Service.

The cluster software will be responsible for bringing this Disk Group online and off on the proper clustered server, removing the need for manual interference through the use of **High Availability**.



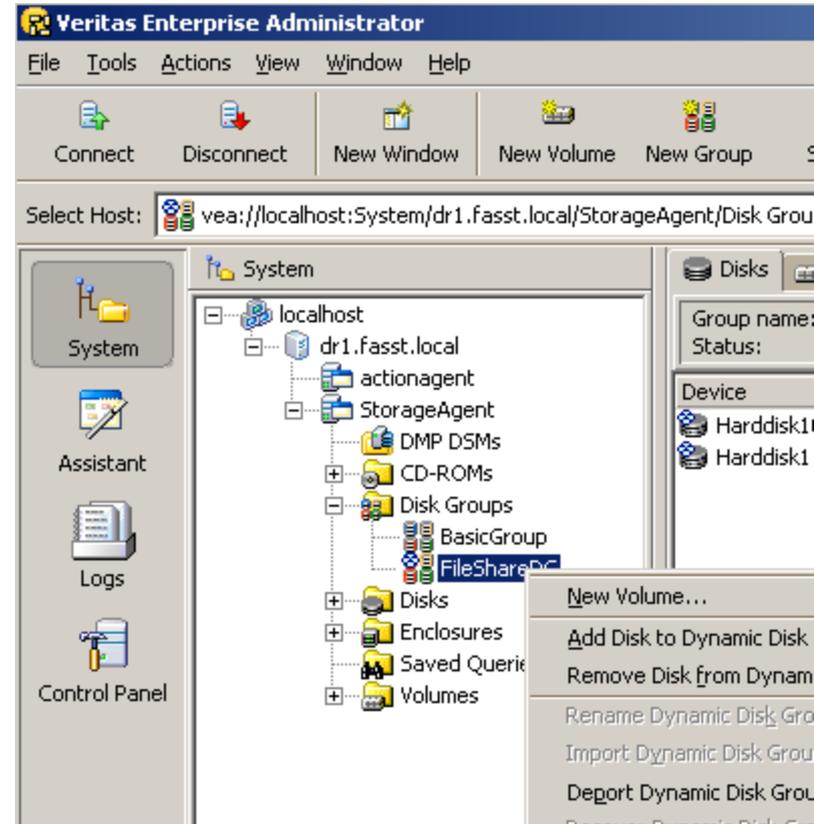
# Creating a Cluster Dynamic Disk Group and New Volume

Creating a new Volume within the VEA interface is made easy with the **New Volume Wizard**.

*Right click on the Disk Group, or on the disks themselves, and from the context menu select the New Volume option.*

The **New Volume Wizard** will walk users through a brief process before creating the Volume in the selected Disk Group.

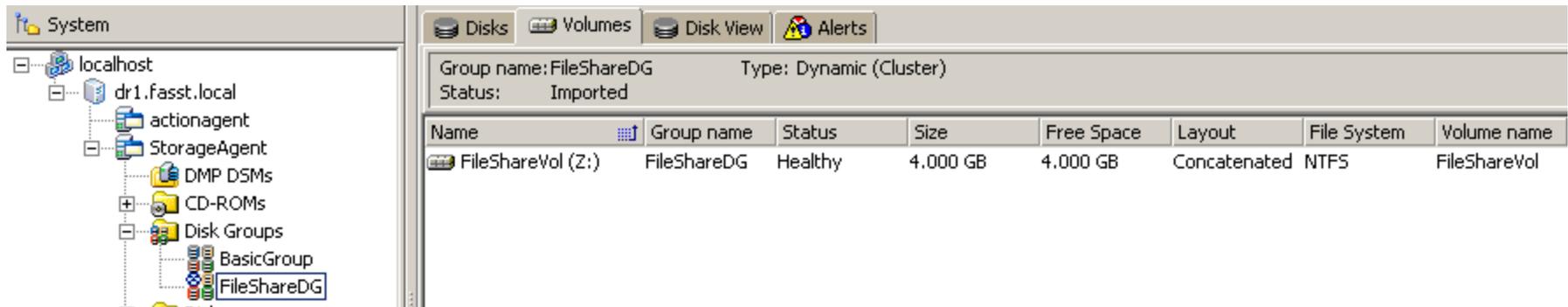
Users can select the Volume type (Concatenated, Striped, etc.), the size of the Volume, and specify which disks in the Disk Group will be used.



# Creating a Cluster Dynamic Disk Group and New Volume

Users can also select the type of formatting to be used for the Volume.

**NTFS, FAT, or FAT32** can be chosen from the available options. Additionally, the user can choose the option to not format the Volume at the end of the wizard.



**Drive Letters** can be assigned during the New Volume Wizard steps. This is optional.

Last, but not least, users can assign a **Volume Label** (name) for the new Volume. ***It is recommended that this be a unique name that can be used to quickly identify the Volume.***

# Using the Veritas Cluster Configuration Wizard

The following section details the use of the Veritas Cluster Configuration Wizard in order to create the basic cluster structure for implementing a FileShare Service Group.

The Veritas Storage Foundation for Windows Cluster Administrator Guide will provide more detail regarding this wizard.

If users are already familiar with these steps, please move forward to the portion of the guide for utilizing the Veritas FileShare Configuration Wizard.



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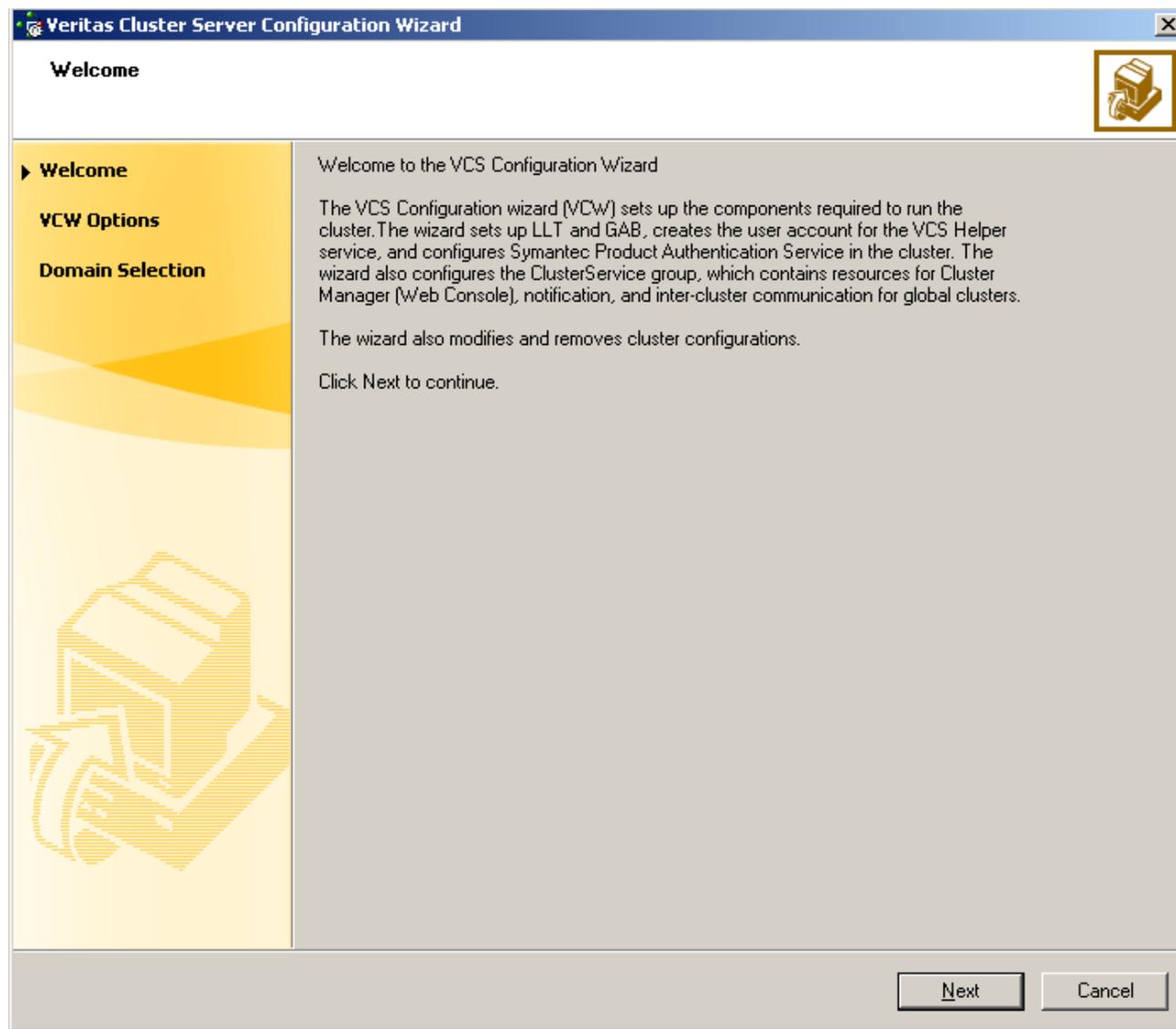
# The Veritas Cluster Configuration Wizard

The Veritas Cluster Configuration Wizard (VCW) can be launched by going to the Start Menu and selecting:

- All Programs
- Symantec
- Veritas Cluster Server
- Configuration Tools
- Cluster Configuration Wizard

Once activated, the wizard's **Welcome Screen** is displayed.

This screen provides a brief synopsis on the tasks that the wizard will perform during the configuration process.



# The Veritas Cluster Configuration Wizard

Clicking **NEXT** on the Welcome Screen will display the **Configuration Options** screen.

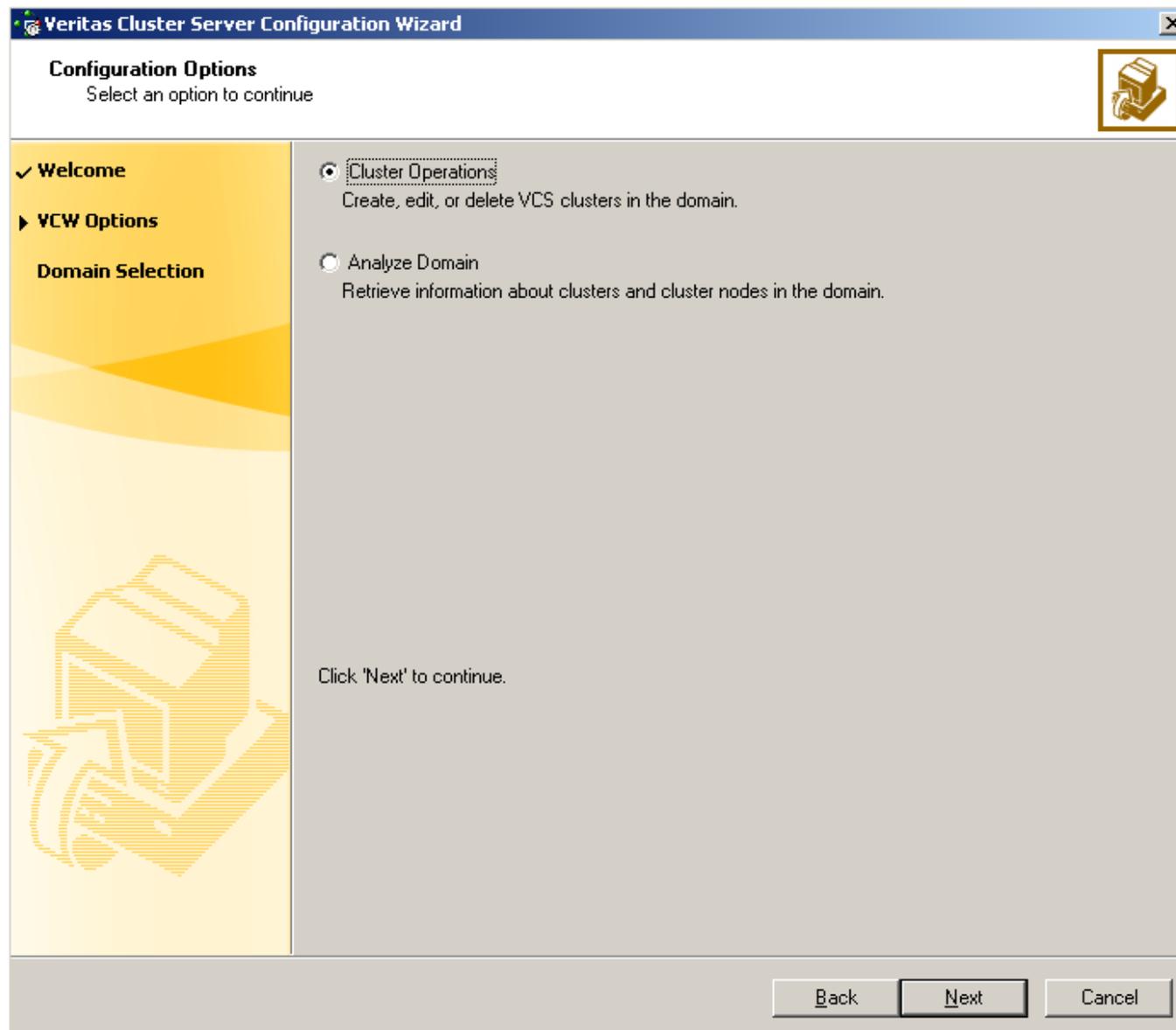
This portion of the wizard provides two options:

## Cluster Operations:

This is used for creating a new cluster, or editing / deleting an existing cluster.

## Analyze Domain:

This option provides information on clusters that are located within the selected domain.



# The Veritas Cluster Configuration Wizard

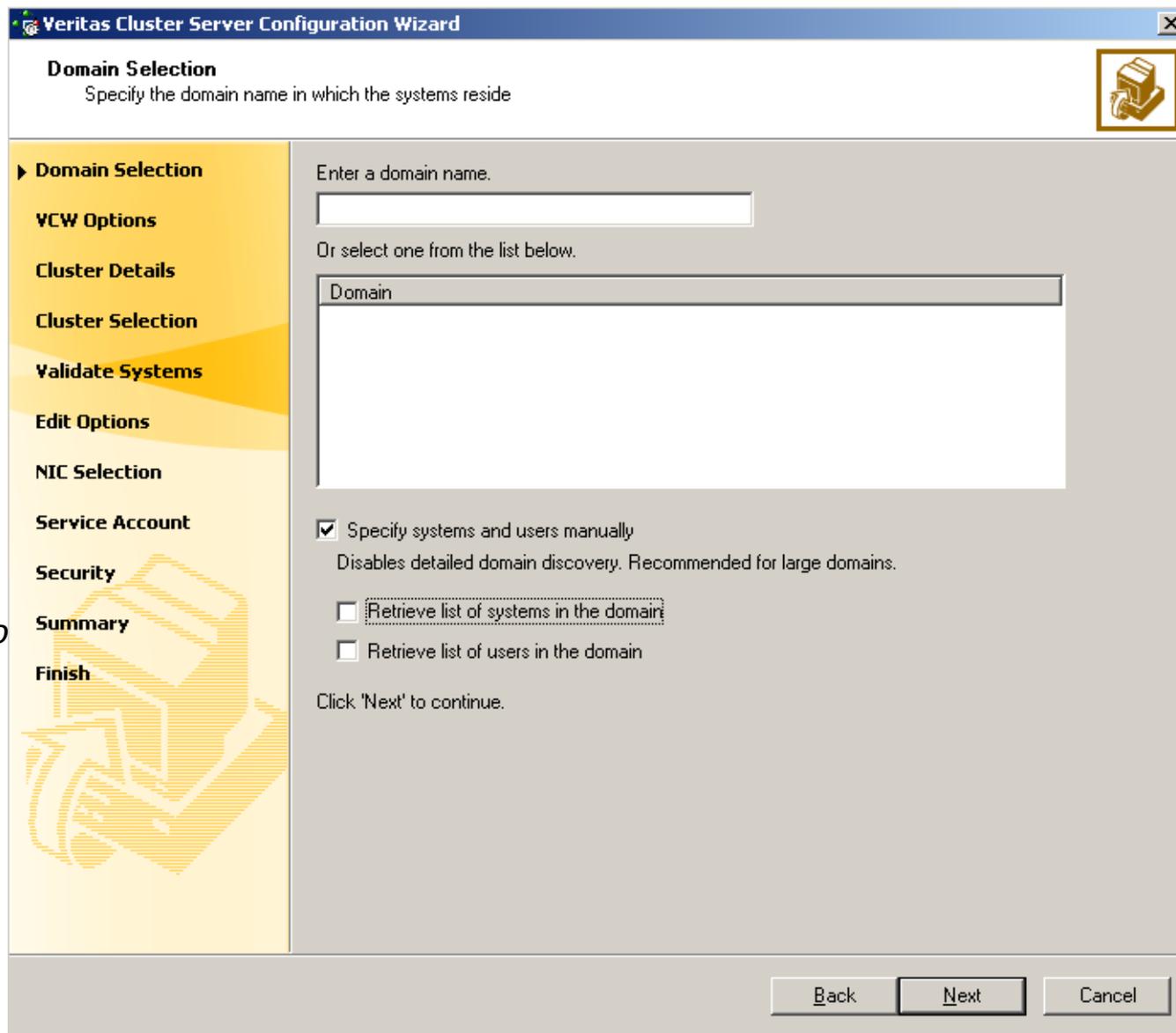
Choosing **Cluster Operations** and clicking **NEXT** will present the **Domain Selection** Screen.

Users can enter the name of a domain on their network and the wizard will search the entire domain for available servers.

These servers can be used as either part of an existing cluster, or can be used to create a new cluster (*only if the last two options are selected*).

## NOTE:

*If these options are unchecked, the **VCW** will operate within the specified domain without searching the entire domain for a list of hosts.*



The screenshot shows the 'Veritas Cluster Server Configuration Wizard' window. The title bar reads 'Veritas Cluster Server Configuration Wizard'. The main window has a yellow sidebar on the left with a list of steps: 'Domain Selection' (selected), 'VCW Options', 'Cluster Details', 'Cluster Selection', 'Validate Systems', 'Edit Options', 'NIC Selection', 'Service Account', 'Security', 'Summary', and 'Finish'. The main area is titled 'Domain Selection' and contains the following text: 'Specify the domain name in which the systems reside'. Below this is a text input field labeled 'Enter a domain name.' and a list box labeled 'Or select one from the list below.' with a 'Domain' header. There are three checkboxes: 'Specify systems and users manually' (checked), 'Retrieve list of systems in the domain' (unchecked), and 'Retrieve list of users in the domain' (unchecked). Below the checkboxes is the text 'Click 'Next' to continue.' At the bottom right are three buttons: 'Back', 'Next', and 'Cancel'.

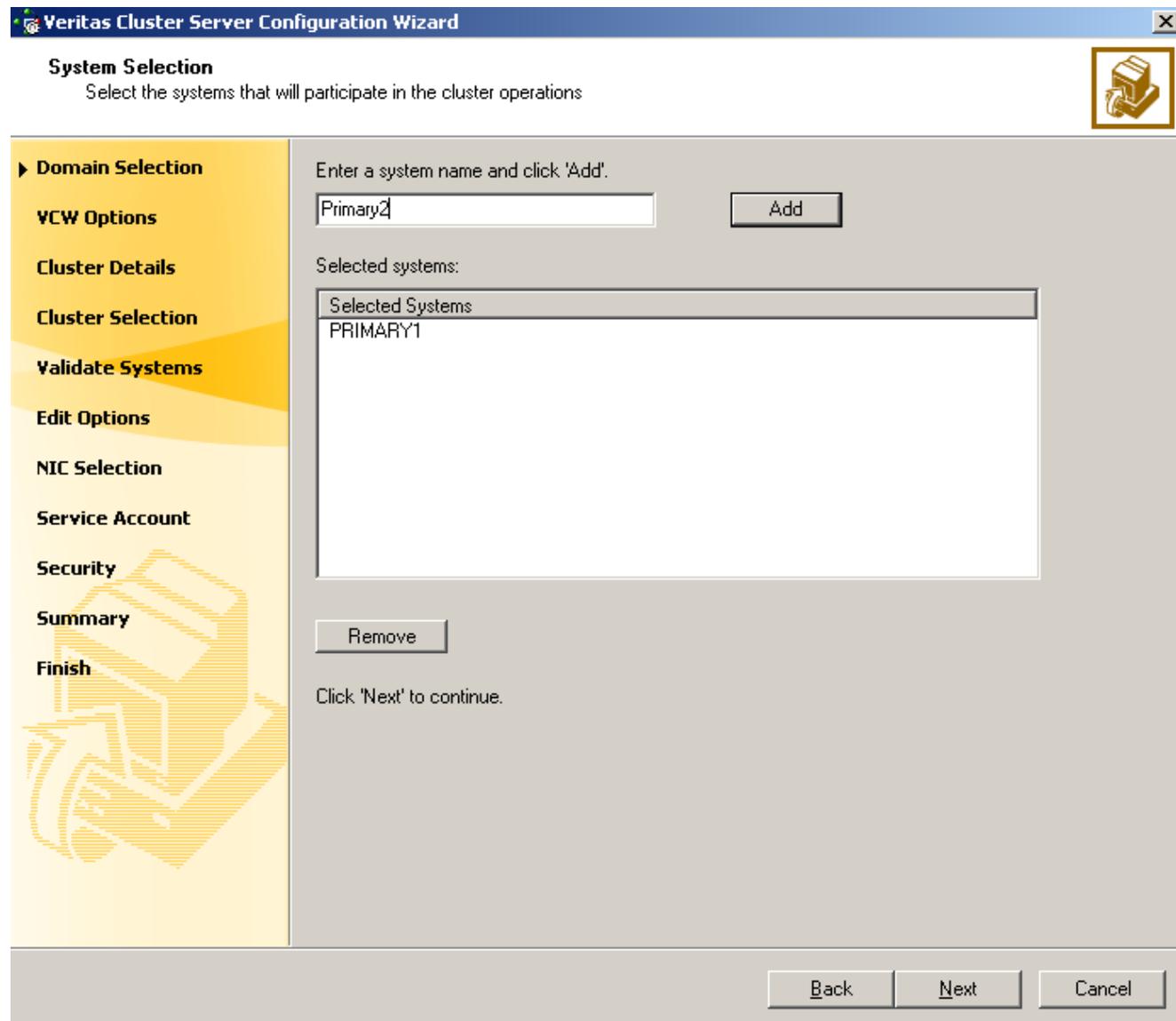
# The Veritas Cluster Configuration Wizard

Clicking **Next** from the **Domain Selection** screen displays the **System Selection** screen.

Simply enter the name of each server (or host) that is included in an existing cluster, or will be part of a new cluster.

Once the name is entered into the field at the top and the **ADD** button is selected, the server will be listed under the **Selected Systems** window.

Clicking the **REMOVE** button will remove the server as a **Selected System**.



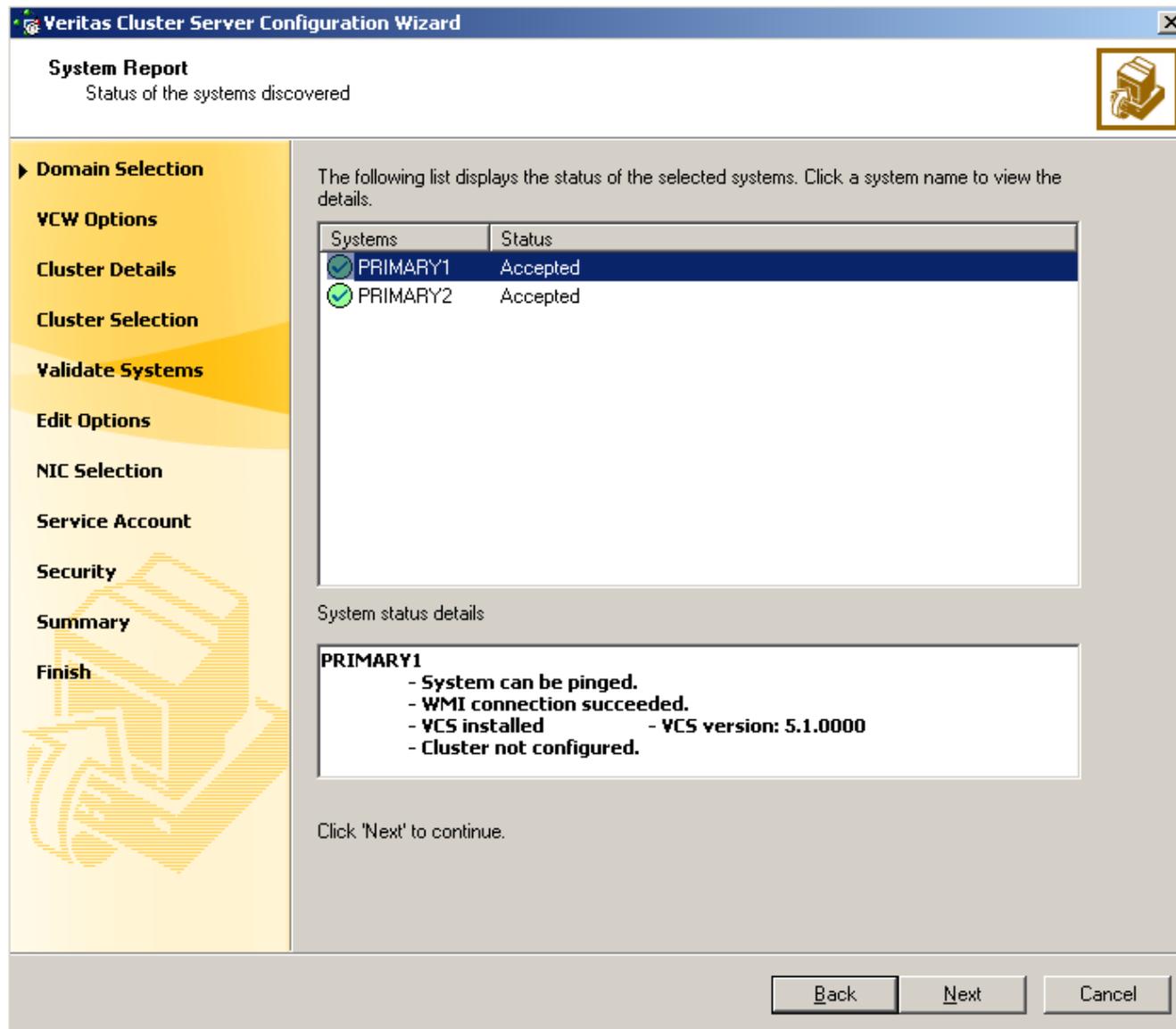
The screenshot shows the 'Veritas Cluster Server Configuration Wizard' window. The title bar reads 'Veritas Cluster Server Configuration Wizard'. The main window has a blue header with the text 'System Selection' and a subtitle 'Select the systems that will participate in the cluster operations'. On the left side, there is a yellow sidebar with a list of steps: 'Domain Selection', 'VCW Options', 'Cluster Details', 'Cluster Selection', 'Validate Systems', 'Edit Options', 'NIC Selection', 'Service Account', 'Security', 'Summary', and 'Finish'. The 'Domain Selection' step is currently selected. The main area of the wizard contains a text input field with 'Primary2' entered, an 'Add' button to its right, and a 'Selected systems:' list box below it containing 'PRIMARY1'. A 'Remove' button is located below the list box. At the bottom of the wizard, there are three buttons: 'Back', 'Next', and 'Cancel'. A large, faint watermark of a hand holding a stack of papers is visible in the background of the main area.

# The Veritas Cluster Configuration Wizard

The **System Report** screen provides a summary of VCW's ability to communicate with selected servers.

Additionally, this screen reports whether or not the servers can be used within a new cluster, or if they are currently part of an existing cluster.

In this example, both the **Primary1** and **Primary2** servers can be used in the creation of a new cluster.



The screenshot shows the 'Veritas Cluster Server Configuration Wizard' window. The title bar reads 'Veritas Cluster Server Configuration Wizard'. The main window has a yellow sidebar on the left with the following menu items: 'Domain Selection', 'VCW Options', 'Cluster Details', 'Cluster Selection', 'Validate Systems', 'Edit Options', 'NIC Selection', 'Service Account', 'Security', 'Summary', and 'Finish'. The 'System Report' section is active, showing the status of discovered systems. The main area contains the text: 'The following list displays the status of the selected systems. Click a system name to view the details.' Below this is a table with two columns: 'Systems' and 'Status'. The table contains two rows: 'PRIMARY1' with status 'Accepted' and 'PRIMARY2' with status 'Accepted'. Below the table is a section titled 'System status details' for 'PRIMARY1', which lists: '- System can be pinged.', '- WMI connection succeeded.', '- VCS installed - VCS version: 5.1.0000', and '- Cluster not configured.' At the bottom of the window are three buttons: 'Back', 'Next', and 'Cancel'.

Systems	Status
PRIMARY1	Accepted
PRIMARY2	Accepted

**System status details**

**PRIMARY1**

- System can be pinged.
- WMI connection succeeded.
- VCS installed - VCS version: 5.1.0000
- Cluster not configured.

Click 'Next' to continue.

# The Veritas Cluster Configuration Wizard

The **Cluster Configuration Options** screen allows for selection between:

## Create New Cluster:

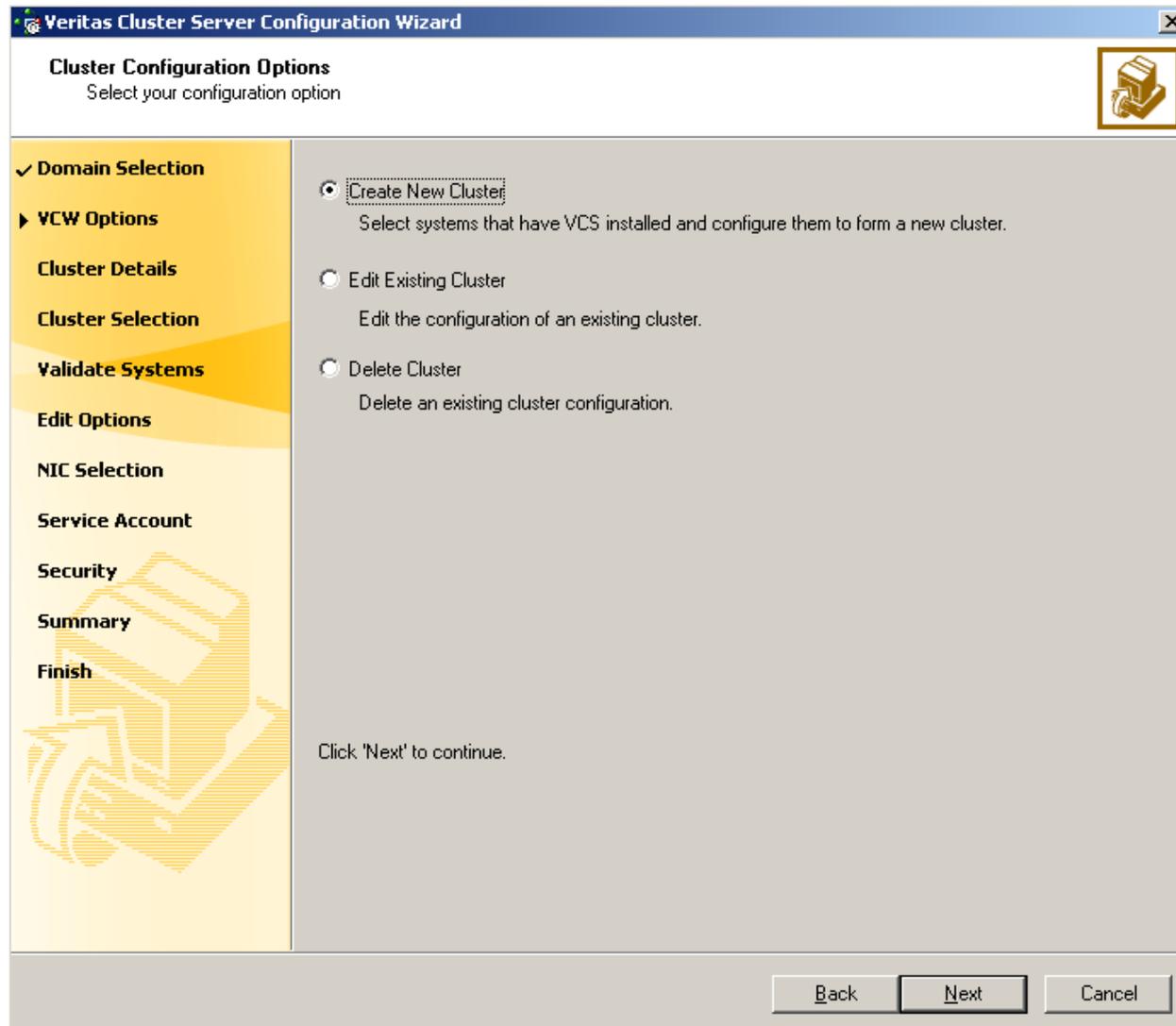
Generates a new cluster using only the Selected systems. Servers chosen must not be part of another cluster.

## Edit Existing Cluster:

This allows for the user to remove and add servers to an existing cluster configuration, adjust options for cluster security, options such as the **Wide Area Connector**, the **Web Console**, and **Global Clustering**.

## Delete Cluster:

Completely remove an existing cluster.



# The Veritas Cluster Configuration Wizard

The **Cluster Details** screen will display options for selecting:

## Cluster Name:

This is a name provided by the user, which must be unique to avoid identical cluster names in the same domain.

## Cluster ID:

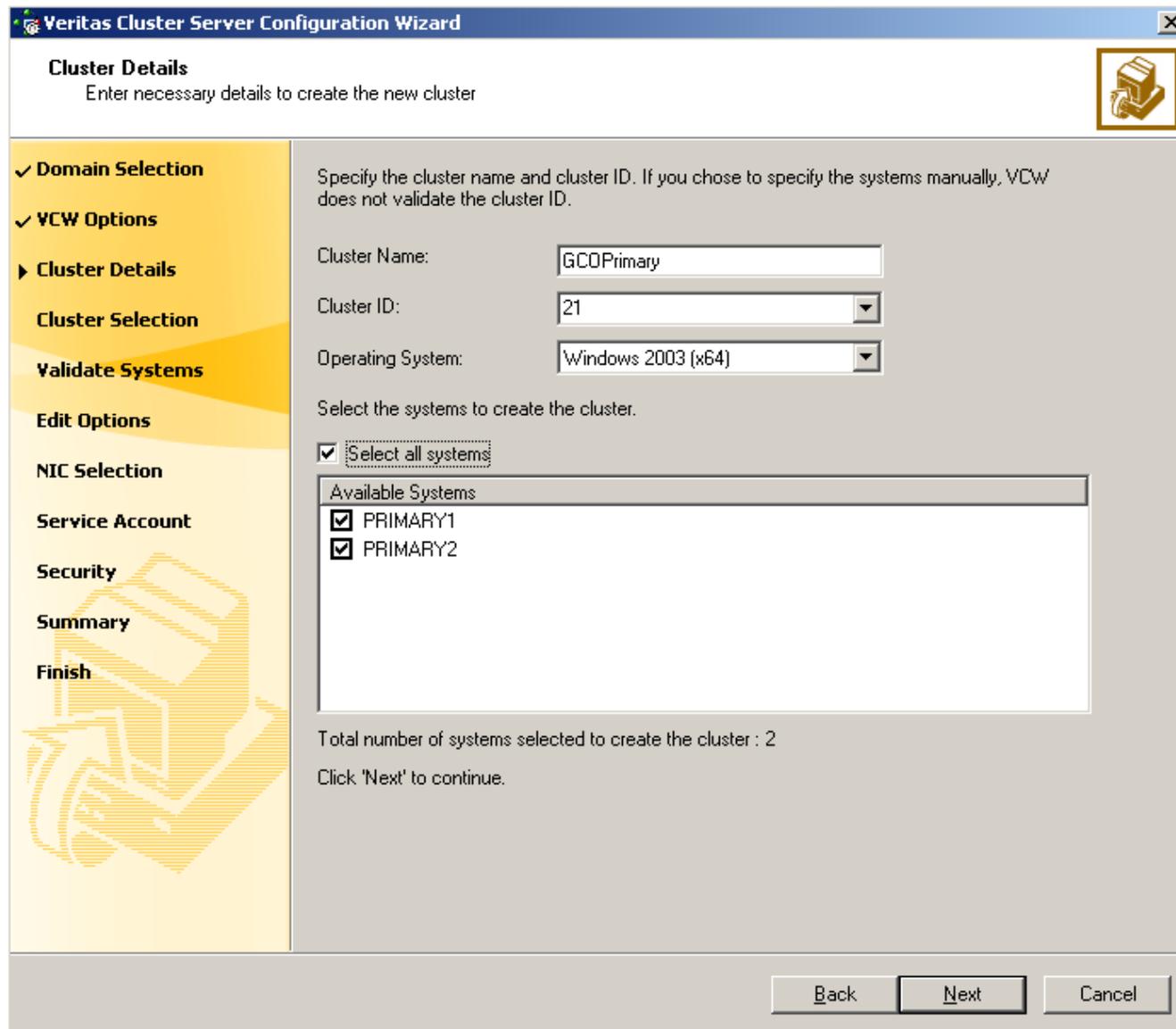
Again, this is unique to this cluster and should not be identical to any other cluster in the domain.

## Operating System:

Shows the OS being used by the selected servers being used in the cluster

## Available Systems:

Allows the user to choose one or more of the systems to be used in the cluster.



The screenshot shows the 'Veritas Cluster Server Configuration Wizard' window. The title bar reads 'Veritas Cluster Server Configuration Wizard'. The main window title is 'Cluster Details' with the subtitle 'Enter necessary details to create the new cluster'. On the left is a navigation pane with the following items: 'Domain Selection' (checked), 'VCW Options' (checked), 'Cluster Details' (selected), 'Cluster Selection', 'Validate Systems', 'Edit Options', 'NIC Selection', 'Service Account', 'Security', 'Summary', and 'Finish'. The main area contains the following fields and options:

- Instruction: 'Specify the cluster name and cluster ID. If you chose to specify the systems manually, VCW does not validate the cluster ID.'
- Cluster Name: Text box containing 'GCDPrimary'
- Cluster ID: Dropdown menu showing '21'
- Operating System: Dropdown menu showing 'Windows 2003 (x64)'
- Instruction: 'Select the systems to create the cluster.'
- Checkbox:  'Select all systems'
- Available Systems list:
  - PRIMARY1
  - PRIMARY2
- Total number of systems selected to create the cluster : 2
- Click 'Next' to continue.

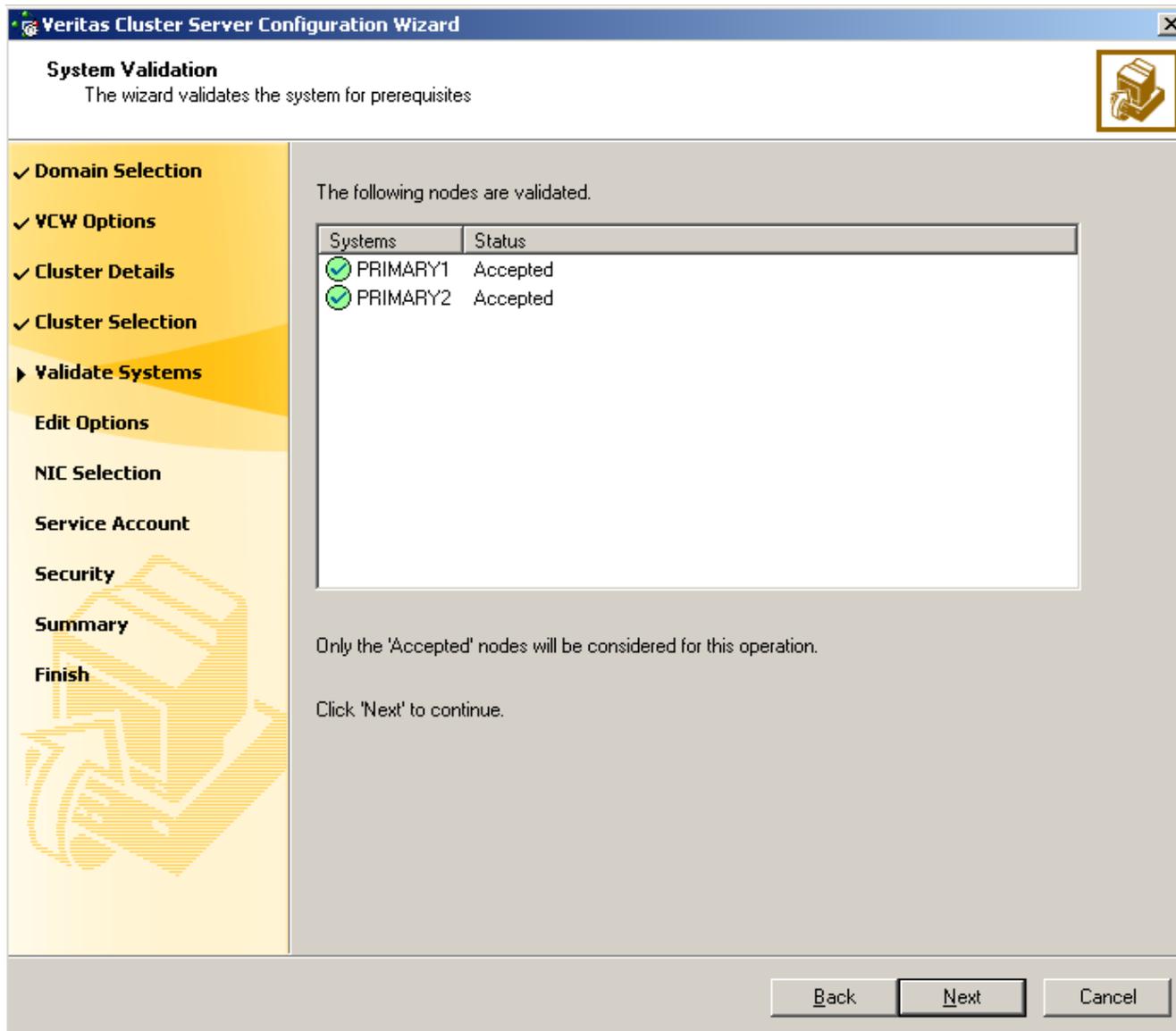
At the bottom right are three buttons: 'Back', 'Next', and 'Cancel'.

# The Veritas Cluster Configuration Wizard

The **System Validation** screen displays the results of a validation test that is performed by the VCW on the systems selected by the user.

Should a system return a result of **REJECTED**, the VCW will provide an error with information regarding the failure.

If assistance is needed in determining the cause of a system receiving a 'Reject' status, please contact Symantec Support.



The screenshot shows the 'System Validation' screen of the Veritas Cluster Server Configuration Wizard. The window title is 'Veritas Cluster Server Configuration Wizard'. The main heading is 'System Validation' with the subtitle 'The wizard validates the system for prerequisites'. A sidebar on the left contains a list of steps: Domain Selection, VCW Options, Cluster Details, Cluster Selection, Validate Systems (highlighted), Edit Options, NIC Selection, Service Account, Security, Summary, and Finish. The main area displays the text 'The following nodes are validated.' above a table with two columns: 'Systems' and 'Status'. The table contains two rows: 'PRIMARY1' with a green checkmark and 'Accepted' status, and 'PRIMARY2' with a green checkmark and 'Accepted' status. Below the table, it states 'Only the 'Accepted' nodes will be considered for this operation.' and 'Click 'Next' to continue.'. At the bottom right, there are three buttons: 'Back', 'Next', and 'Cancel'.

Systems	Status
✓ PRIMARY1	Accepted
✓ PRIMARY2	Accepted

# The Veritas Cluster Configuration Wizard

After clicking **NEXT**, the user will have the opportunity to choose the Network Cards to be used for Private 'Heartbeat' Communication.

Place a checkmark next to the Network Cards that will be used for Private Communication only.

There should always be an additional Network Card used for Public Access (Application or User access).

Low Latency Transport (LLT) is the SFW Protocol for transmitting cluster information between nodes. This can be configured to use over networks that implement UDP.

## **NOTE:**

The Veritas Cluster Server Admin Guide contains details on this configuration.

The screenshot shows the 'Private Network Configuration' window of the Veritas Cluster Server Configuration Wizard. The window title is 'Veritas Cluster Server Configuration Wizard' and the subtitle is 'Private Network Configuration'. Below the subtitle is the instruction 'Select NICs for private network communication'. On the left side, there is a navigation pane with the following steps: 'Domain Selection', 'VCW Options', 'Cluster Details', 'Cluster Selection', 'Validate Systems', 'Edit Options', 'NIC Selection', 'Service Account', 'Security', 'Summary', and 'Finish'. The 'NIC Selection' step is currently active. The main area of the window contains the following text: 'Select two adapters (NICs) on each system for the private network. VCW configures the LLT service on the selected NICs.' Below this text is a checkbox labeled 'Configure LLT over UDP' which is currently unchecked. There are two input fields for port numbers: 'Port number for Link1:' with the value '50000' and 'Port number for Link2:' with the value '50001'. Below these fields is a tree view showing two primary systems: 'PRIMARY1' and 'PRIMARY2'. Under 'PRIMARY1', there are three items: 'HB2' (checked), 'Public' (unchecked), and 'HB1' (checked). Under 'PRIMARY2', there are three items: 'HB2' (checked), 'Public' (unchecked), and 'HB1' (checked). At the bottom of the window, there is a text box containing the following information: 'Name: Intel(R) PRO/1000 MT Network Connection', 'Adapter Type: Ethernet 802.3', 'Manufacturer: Intel', and 'MAC Address: 00:0C:29:F1:1E:1C'. Below the text box is the instruction 'Click 'Next' to continue.' At the bottom right of the window, there are three buttons: 'Back', 'Next', and 'Cancel'.

# The Veritas Cluster Configuration Wizard

The **VCS Had Helper Service User Account** screen allows for a specific account to be used or created within a Windows environment in order to provide access between clustered nodes.

Inserting an **Existing User** requires an account that has been configured within Active Directory.

Creating a **New User** will automatically add the necessary information into Active Directory, using the credentials of the account to log into the environment.

Veritas Cluster Server Configuration Wizard

### VCS Helper Service User Account

Specify a user account for the VCS Helper service

Specify a user account in the domain 'fasst.local' for the VCS Helper service. The service will run in the context of the specified user on all nodes in the cluster.

Existing User  
Specify User:

New user  
Create New User:

Click 'Next' to continue.

Back Next Cancel

#### Password

Please enter password for the selected user account

User Account:

Enter Password:

OK Cancel

# The Veritas Cluster Configuration Wizard

The **Configure Security Service Option** screen provides the opportunity for users to assign access rights to the cluster for other users.

**Single Sign-On** allows a user to log in to Windows with their Active Directory credentials and automatically have access to the cluster using the same credentials.

This requires a **Root Broker** server to exist, or be created within the network. The Root Broker server essentially validates the user.

Rather than configuring Single Sign-On, the **VCS Had Helper Account** (created on the last screen) can be used for cluster access. However, the user will need to sign into the Cluster Management Console after logging into Windows.

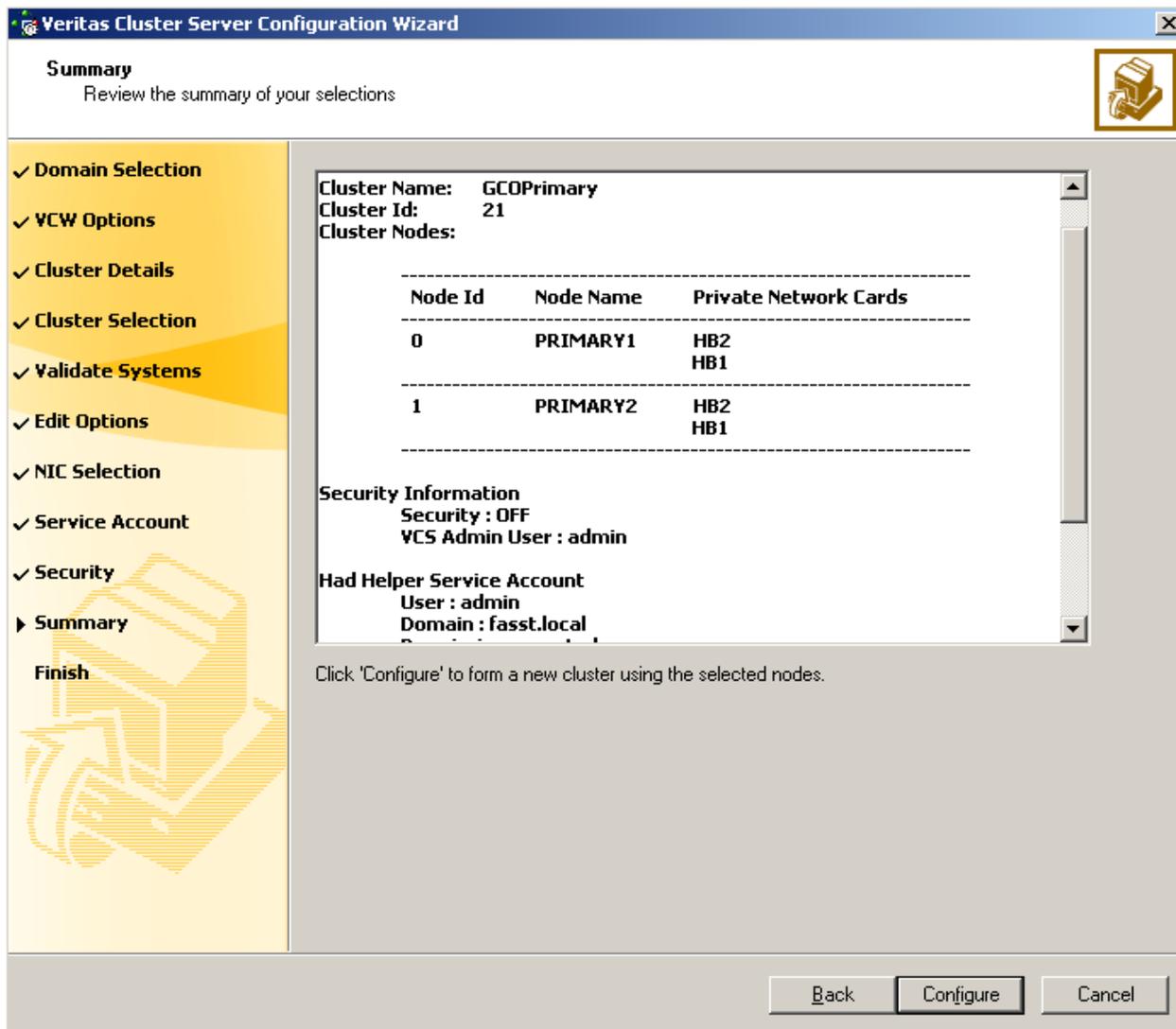
The screenshot shows the 'Configure Security Service Option' screen of the Veritas Cluster Server Configuration Wizard. The window title is 'Veritas Cluster Server Configuration Wizard'. The main heading is 'Configure Security Service Option' with the subtitle 'Select security options for the cluster'. On the left, a navigation pane lists steps: Domain Selection, VCW Options, Cluster Details, Cluster Selection, Validate Systems, Edit Options, NIC Selection, Service Account, Security, Summary, and Finish. The 'Security' section is expanded, showing two radio button options: 'Use Single Sign-on' (selected) and 'Use VCS User Privileges'. The 'Use Single Sign-on' option includes a text box for 'Specify root broker system', a 'Scope' button, and a list box for 'Discover the root broker systems in the domain'. The 'Use VCS User Privileges' option includes a note: 'Do not configure Symantec Product Authentication Service. You must configure a user with administrative privileges to the cluster.' At the bottom, there are 'Back', 'Next', and 'Cancel' buttons.

# The Veritas Cluster Configuration Wizard

Prior to actually configuring the cluster with the settings accumulated from the user, the VCW will provide a summary of the configuration settings for review.

If there are any items that are not configured correctly, click the **BACK** button and make the necessary corrections before proceeding.

Clicking the **CONFIGURE** button will begin the process of constructing the cluster to conform with user specifications.



The screenshot shows the 'Veritas Cluster Server Configuration Wizard' window. The title bar reads 'Veritas Cluster Server Configuration Wizard'. The main window is titled 'Summary' and contains the text 'Review the summary of your selections'. On the left side, there is a vertical navigation pane with a yellow background and a large '3D' icon. The navigation pane lists the following steps, each with a checkmark: 'Domain Selection', 'VCW Options', 'Cluster Details', 'Cluster Selection', 'Validate Systems', 'Edit Options', 'NIC Selection', 'Service Account', 'Security', 'Summary', and 'Finish'. The 'Summary' step is currently selected. The main content area displays the following configuration details:

Cluster Name: GCOPrimary  
Cluster Id: 21  
Cluster Nodes:

Node Id	Node Name	Private Network Cards
0	PRIMARY1	HB2 HB1
1	PRIMARY2	HB2 HB1

Security Information  
Security : OFF  
VCS Admin User : admin

Had Helper Service Account  
User : admin  
Domain : fasst.local

At the bottom of the window, there are three buttons: 'Back', 'Configure', and 'Cancel'. Below the buttons, there is a small instruction: 'Click 'Configure' to form a new cluster using the selected nodes.'

# The Veritas Cluster Configuration Wizard

At the conclusion of the VCW, clicking the **FINISH** button exits the wizard with the cluster fully configured.

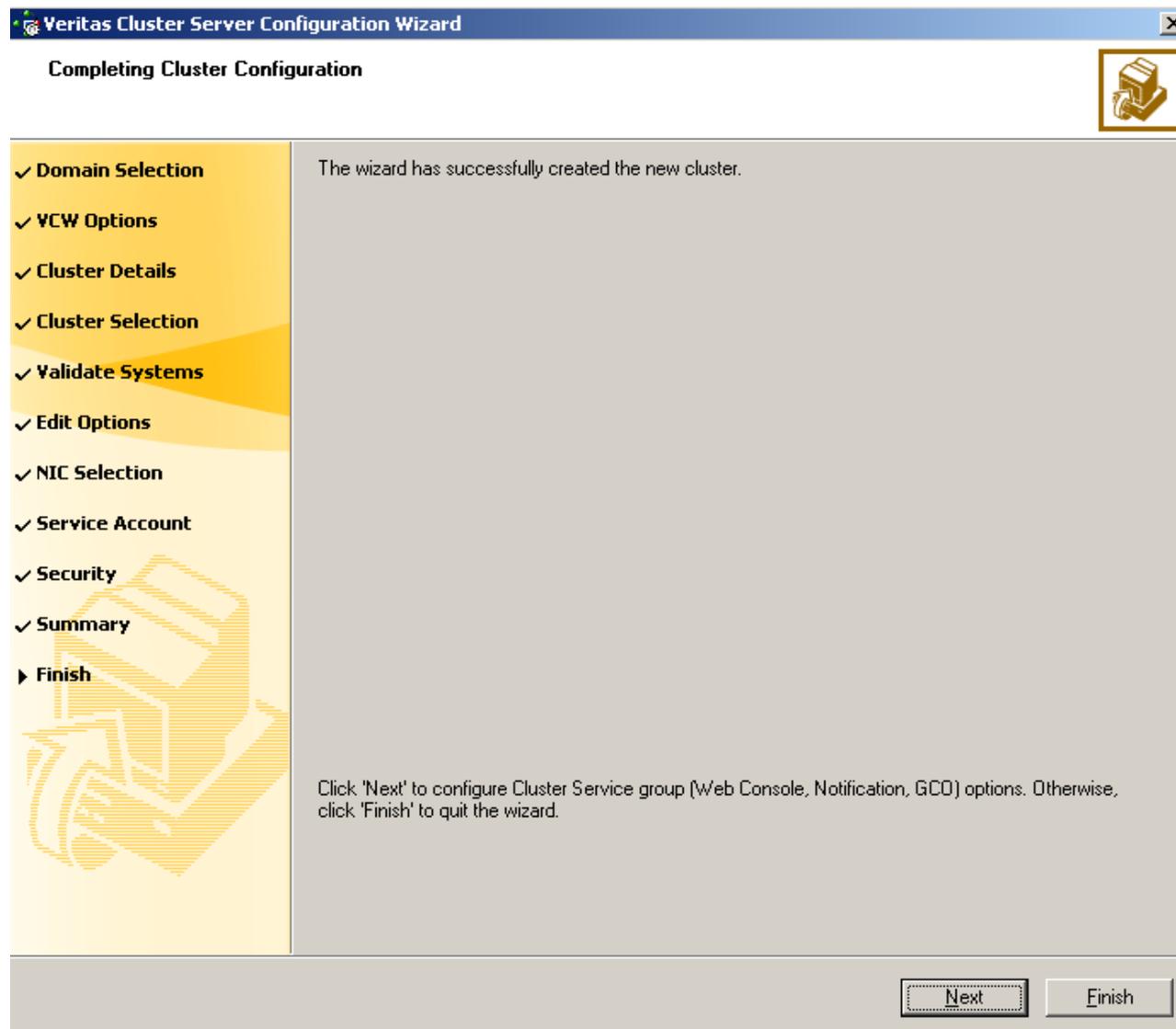
Clicking the **NEXT** button displays options for configuring:

-Establishing a **Wide Area Connector**. This is used with a Global Cluster.

-Configuring a **Web Console** Service Group. This allows Web Access to the cluster.

- Setting up **Notifications and Alerts** for cluster events.

More details on these items can be found in the **Veritas Cluster Server Admin Guide**.



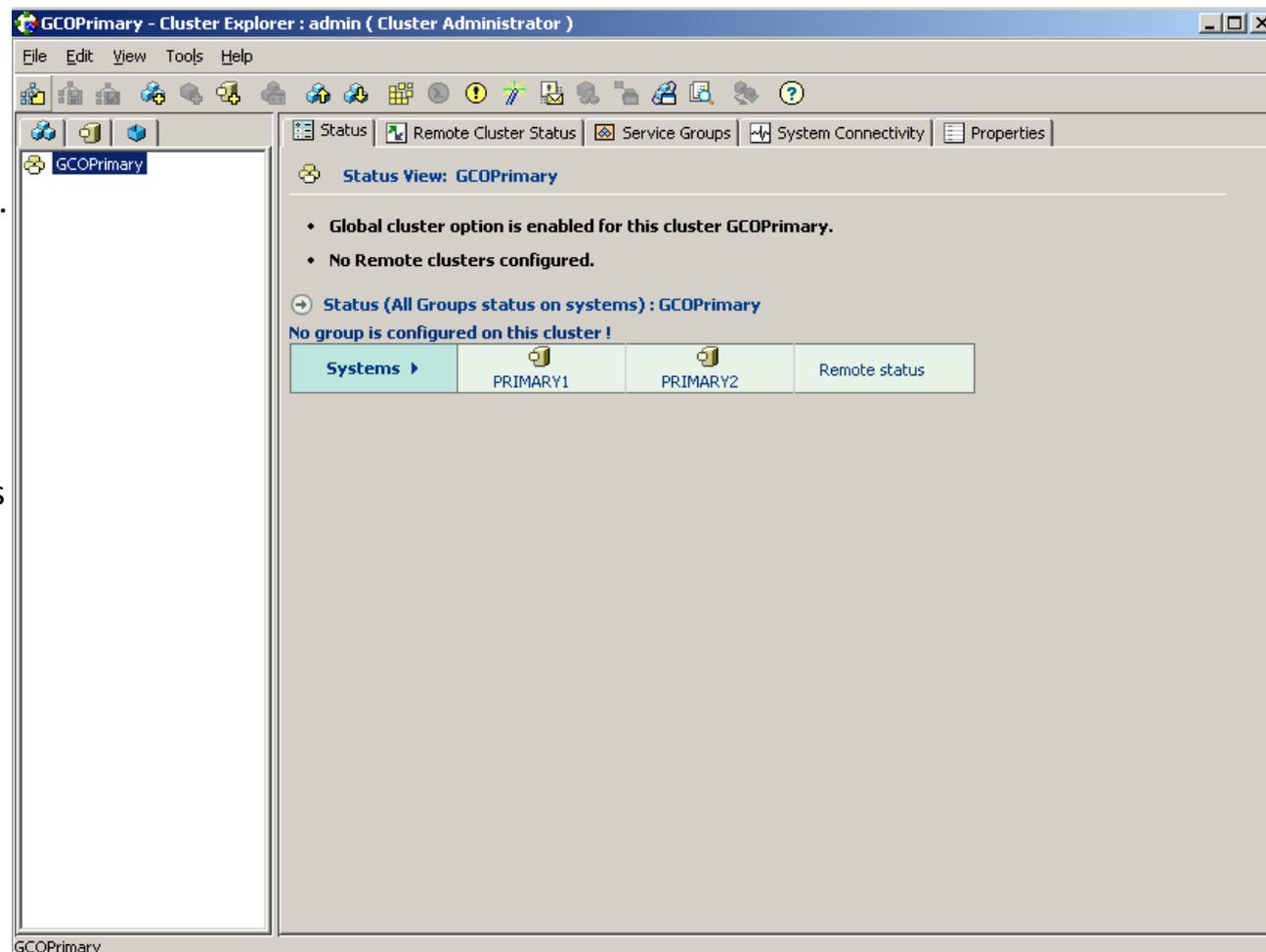
# The Veritas Cluster Configuration Wizard

After completion of the **VCW**, opening the **Cluster Management Console** will display the successful configuration of the clustered nodes.

At this time, Service Groups can be created for interacting with the application(s) to be clustered.

**SFW-HA** contains wizards for various applications (FileShares, Exchange, Oracle, SQL, etc.).

In order to utilize these tools or create custom application Service Groups, please review the **Veritas Bundled Agents Reference Guide**, or the **Veritas Cluster Server Admin Guide**.



# Using the Veritas FileShare Configuration Wizard

The following section details the use of the Veritas FileShare Configuration Wizard. The wizard will allow for the creation of a FileShare Service Group within the cluster That has been configured over the last few sections of this guide.



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The first step in the process of creating a FileShare Service Group will be to ensure that the **Cluster Dynamic Disk Group** is imported and ready for use, as seen to the right.

This allows for the FileShare Configuration Wizard to recognize the availability of the Cluster Dynamic Disk Group, and access it appropriately.

*This can be done by Right Clicking on the Cluster Dynamic Disk Group and selecting the option to IMPORT.*



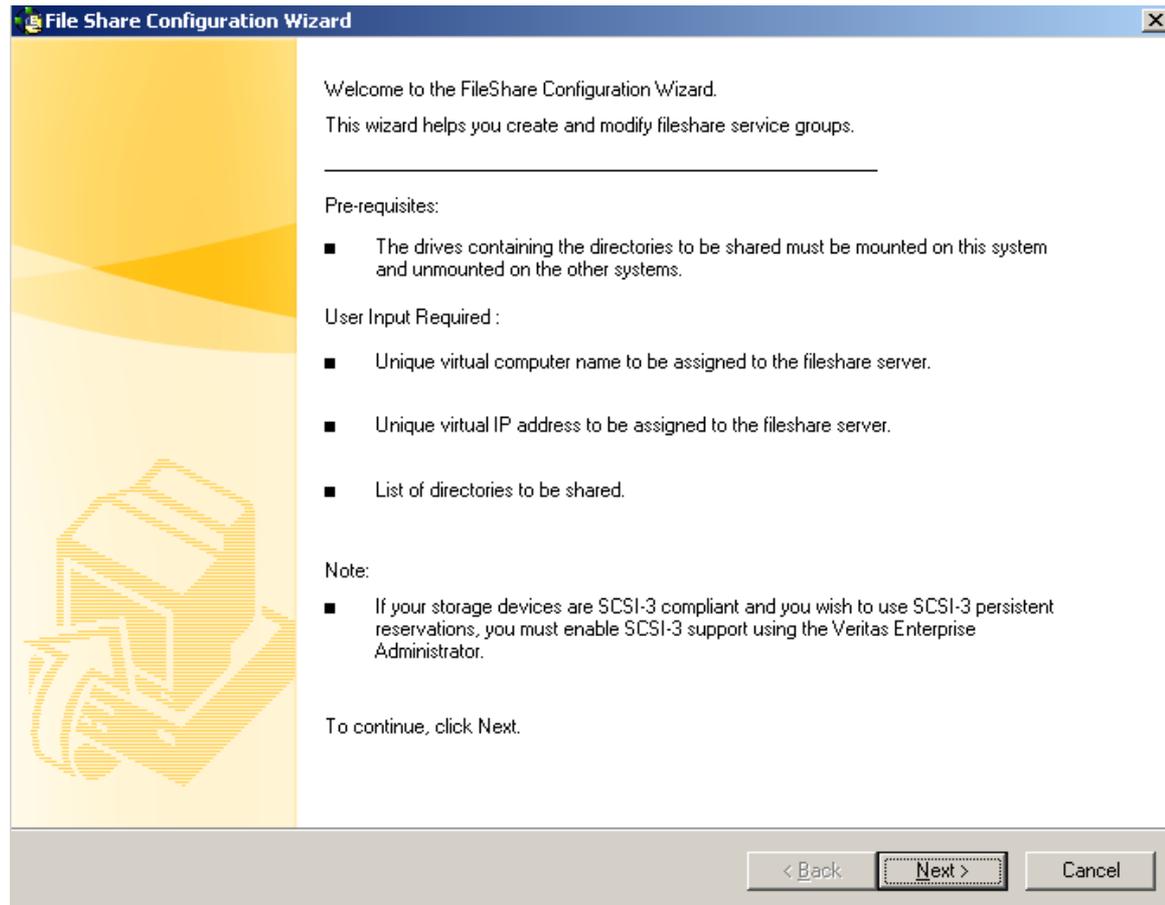
## The *Veritas FileShare Configuration Wizard*

can be launched by going to the Start Menu and selecting:

- All Programs
- Symantec
- Veritas Cluster Server
- Configuration Tools
- FileShare Configuration Wizard

This will bring up the Welcome screen for the FileShare wizard, which will provide a list of prerequisites needed to create the FileShare Service Group

Clicking **NEXT** will move the user forward through the wizard.

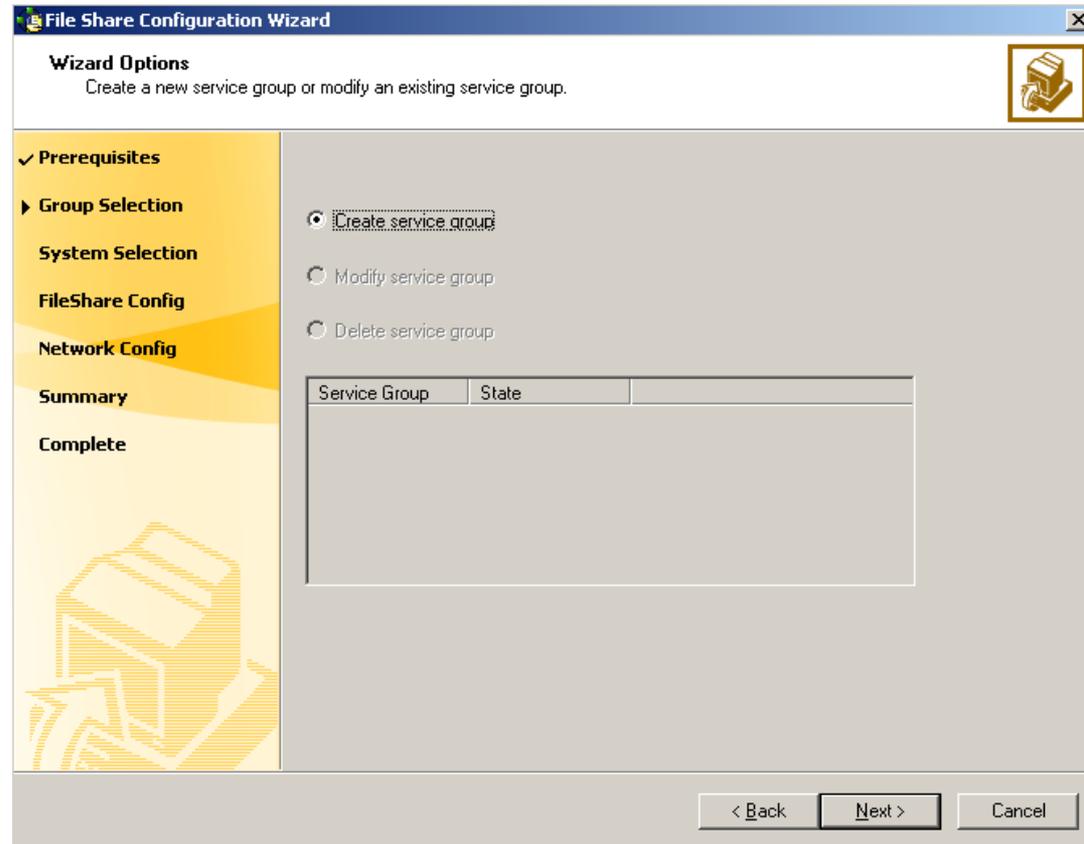


The Group Selection portion of the wizard allows for:

- Creating new FileShare Service Groups
- Modifying the settings of existing Groups
- Deleting existing groups

If no other Service Group is available, the wizard will only present the option to create a new Service Group, as seen here.

Existing Service Groups will be shown in the window pane immediately below these three options.



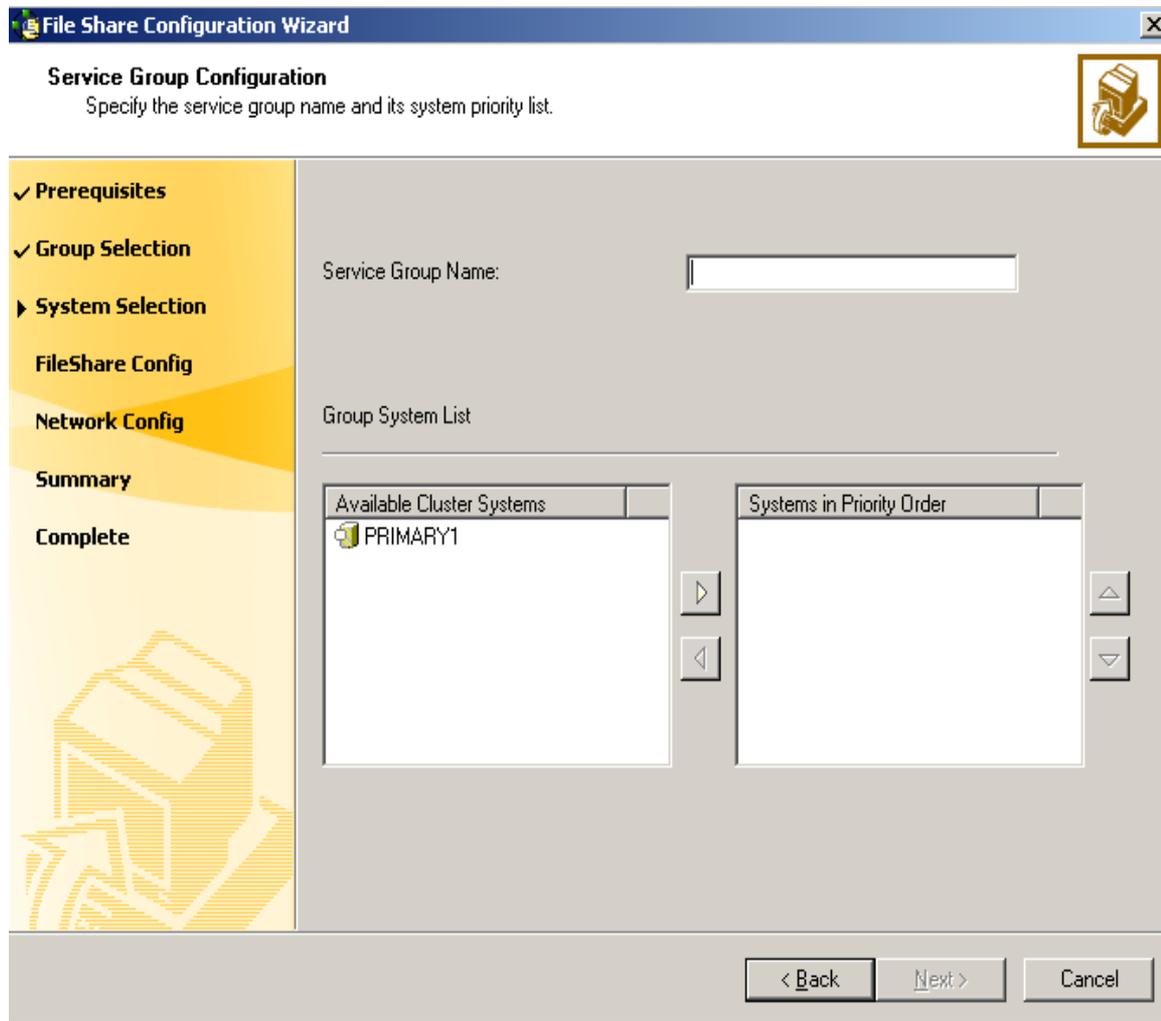
The **System Selection** screen provides the option for users to enter the name of the FileShare Service Group.

***This name should be unique to all other Service Groups that exist within the domain.***

Additionally, users can select the systems that will be configured as part of the Service Group.

***Only systems that have already had a cluster configured will be recognized and made available for selection.***

After selecting a system, the **Priority** determines the order for which system the Service Group will be brought up on first.



The FileShare Configuration section of the wizard provides users with the options for:

- Entering a **Virtual Server Name:**

This VSN must be unique within the domain. The wizard will make the necessary entries in Microsoft's Active Directory for the VSN.

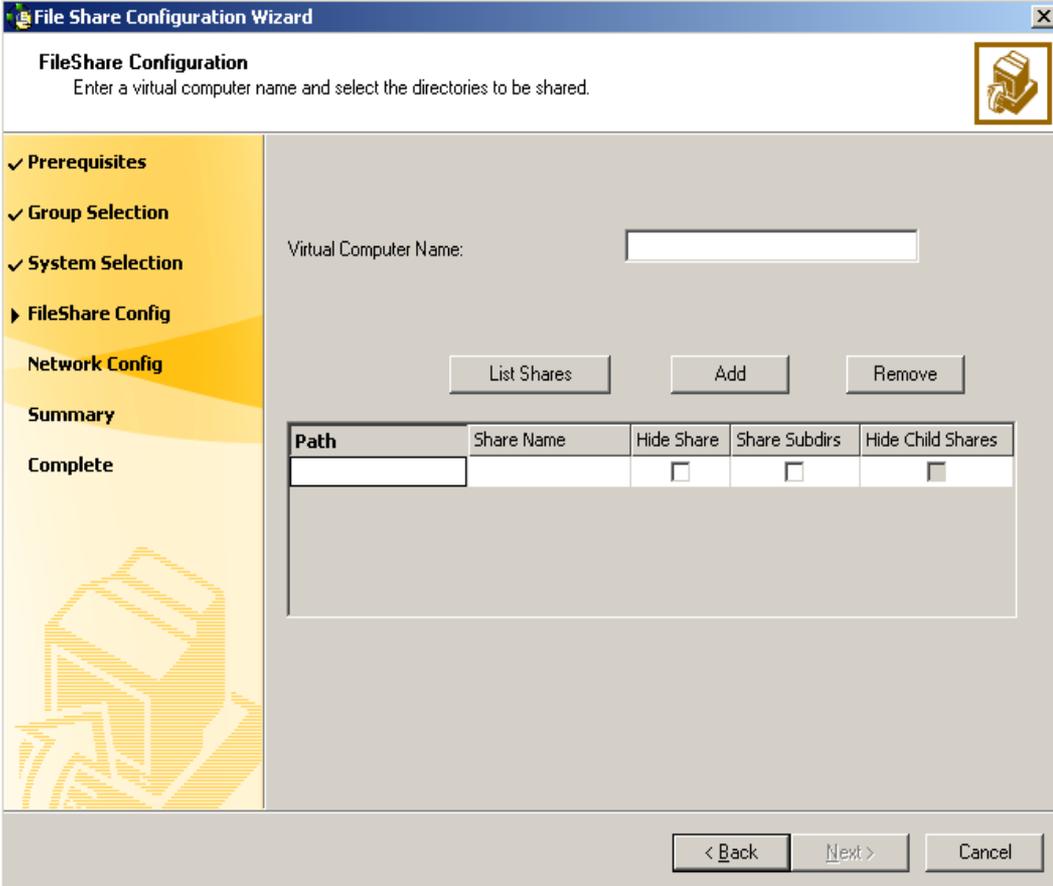
- Entering the **PATH** for the share:

This will be the directory to be shared out.

- Entering the **Share Name:**

This will be the name of the directory being shared. This should be a unique name on the network.

Shares can also be hidden, with separate options for hiding subdirectories.

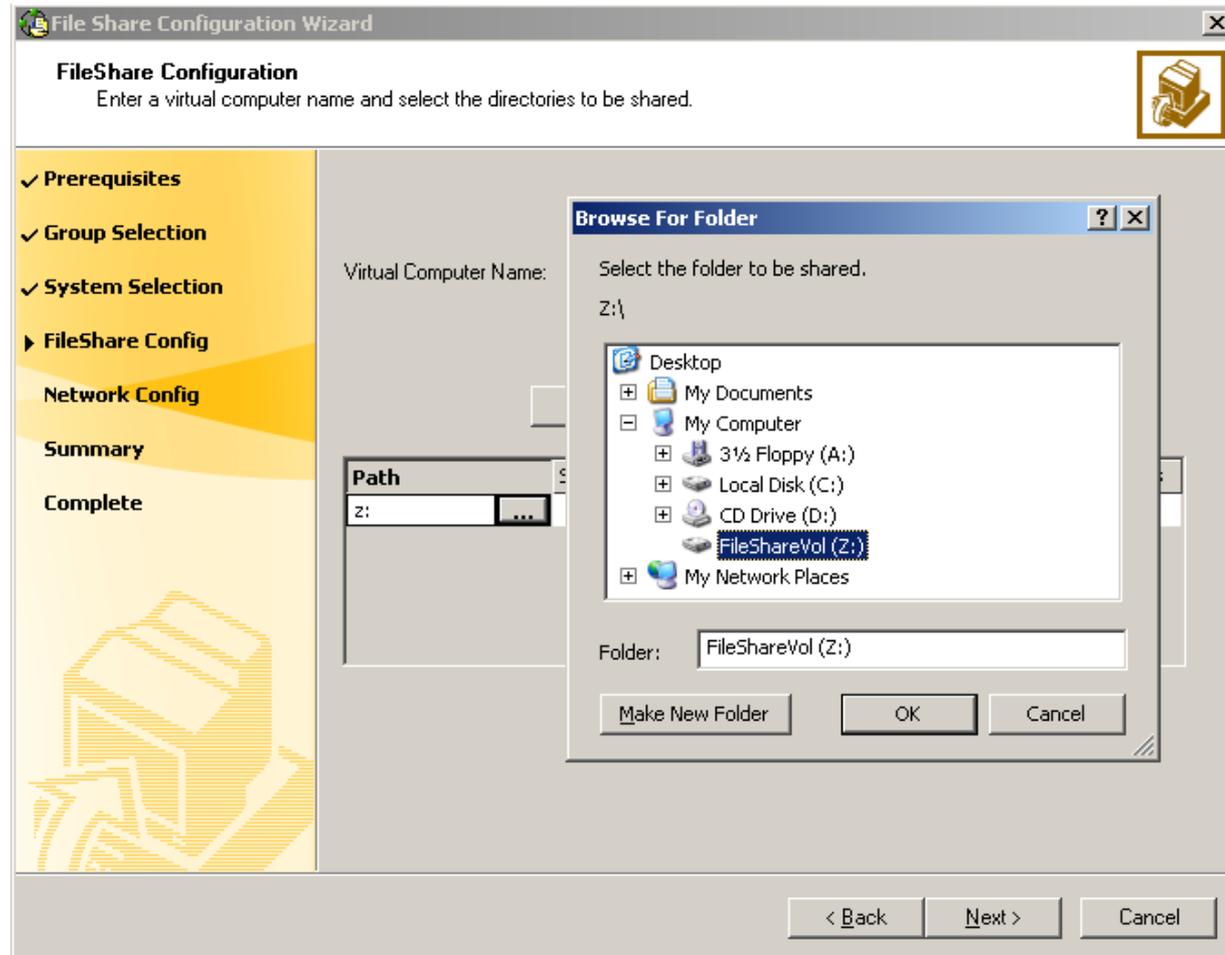


The **PATH** can be entered manually, or by browsing to the directory.

By clicking the ellipses under the **PATH** heading, a directory browsing window will be displayed.

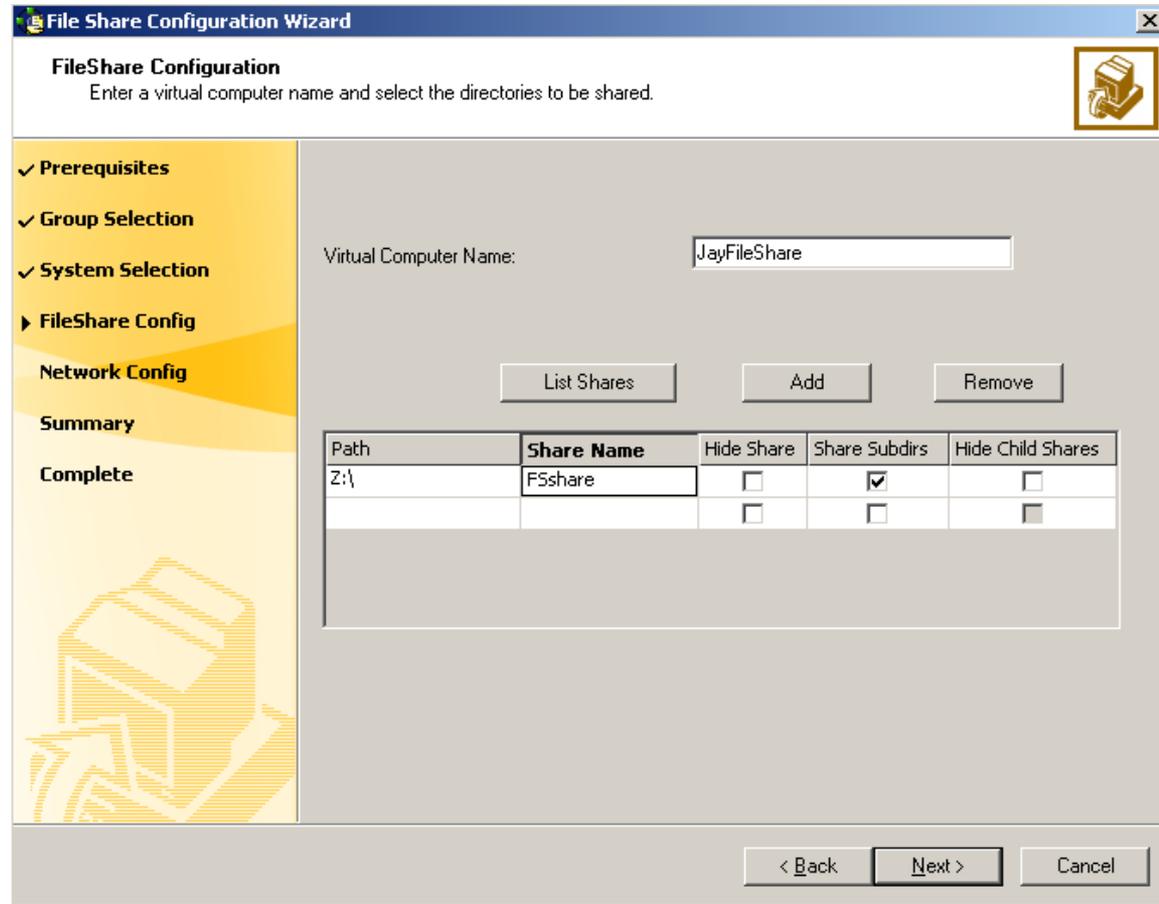
Simply drill down the directory tree and choose the proper directory, or create a new one on the selected drive.

Click **OK** to configure the other FileShare options before moving on through the wizard.



Once completed, the FileShare Configuration section should look similar to what is shown here.

With the Path designated, the Share Name set and unique, the appropriate options selected, and the Virtual Server Name Clearly defined, the wizard is ready for the next step.

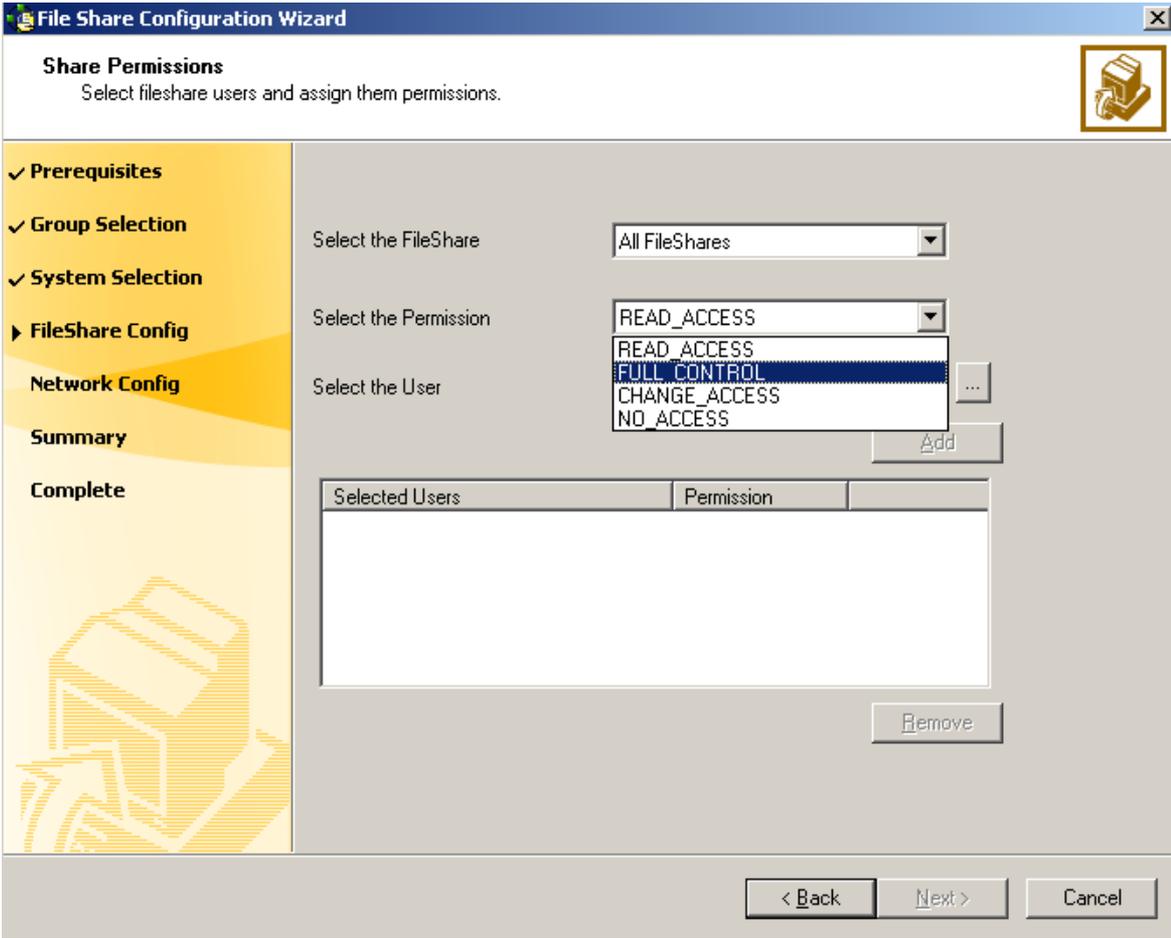


This next section for configuring the **Share Permissions** is one of the most critical sections to establish.

*Incorrect permission settings during the creation of a FileShare Service Group will cause issues with users being able to properly access the share.*

The **Share Permissions** work with **Microsoft's Active Directory** both in selecting users and how those users access the share.

It is important to determine which users will access which shares prior to completing this section of the wizard.



There are three items that must be configured for the **Share Permissions** section of the wizard.

**-Select the FileShare**

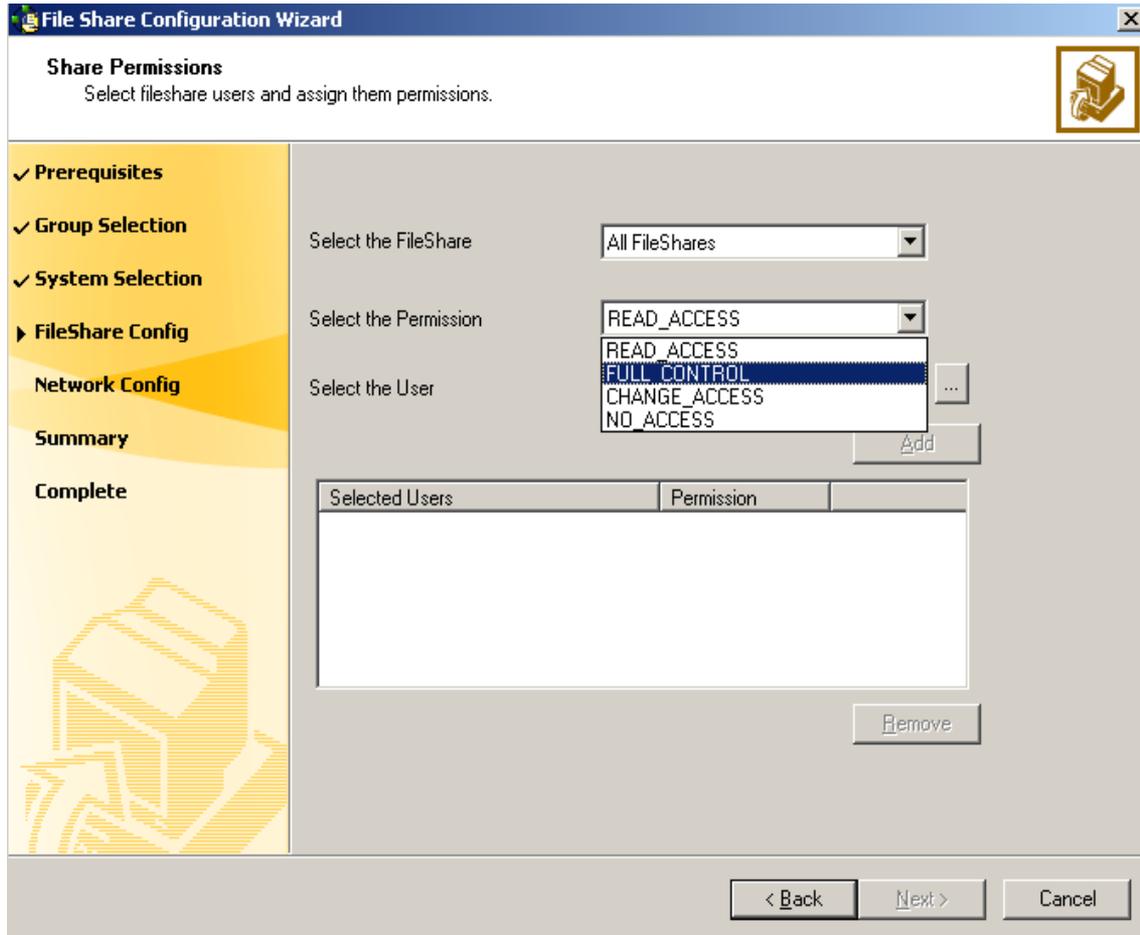
This allows for setting the individual user permissions per FileShare Service Group, or setting the permissions globally for all FileShare Service Groups at once.

**-Select the Permissions**

Ranging from Read Only access to Full Control, this setting dictates the level of control individuals or groups of users have when accessing the FileShare.

**-Select the User**

This allows for choosing users or groups of users, and assigns them the Permissions set in the Select the Permissions option.

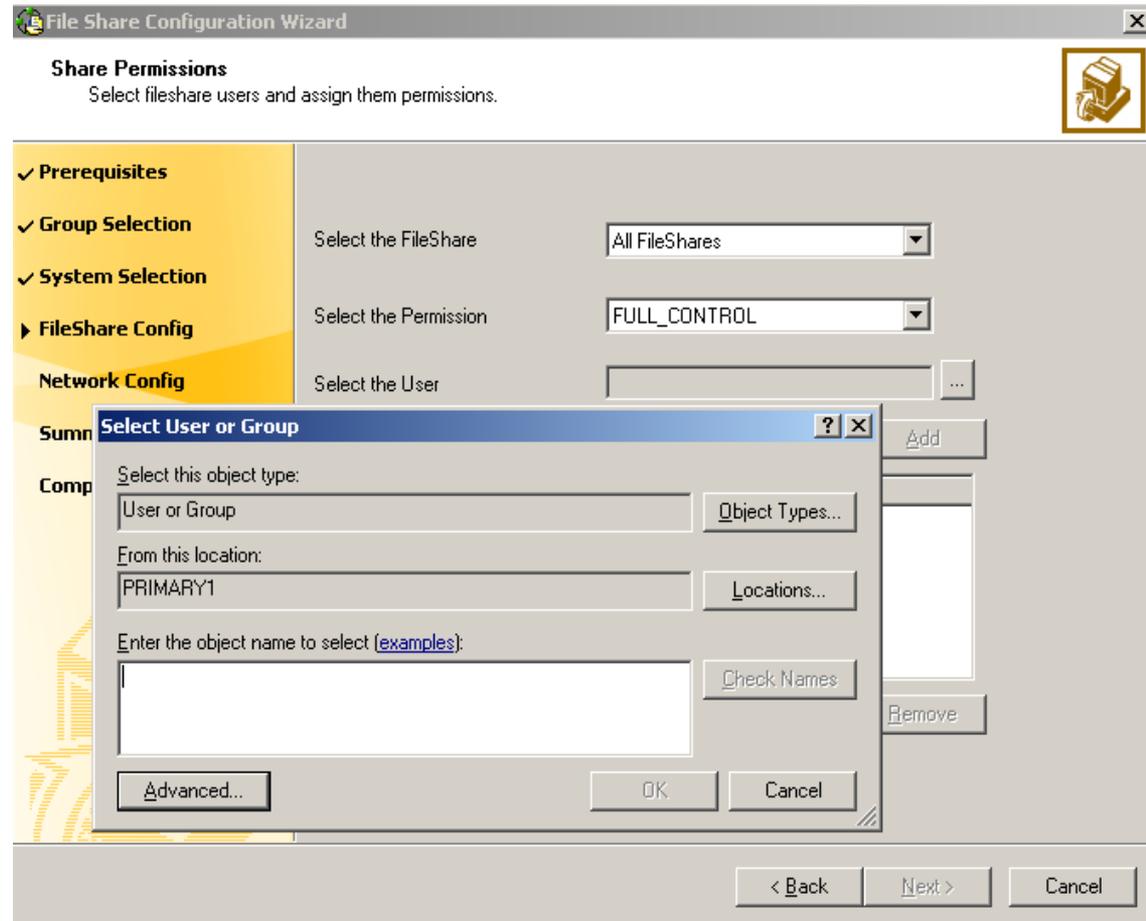


When clicking the ellipses next to **Select the User**, the window that comes up will provide access to the available user and group accounts in Microsoft Active Directory.

To select an account:

- Click **Advanced**
- Click **Location**
- Select the same domain as the cluster
- Click **Find Now**
- From the list presented, choose the account to be used
- Click **OK**

Do this for each account needed.

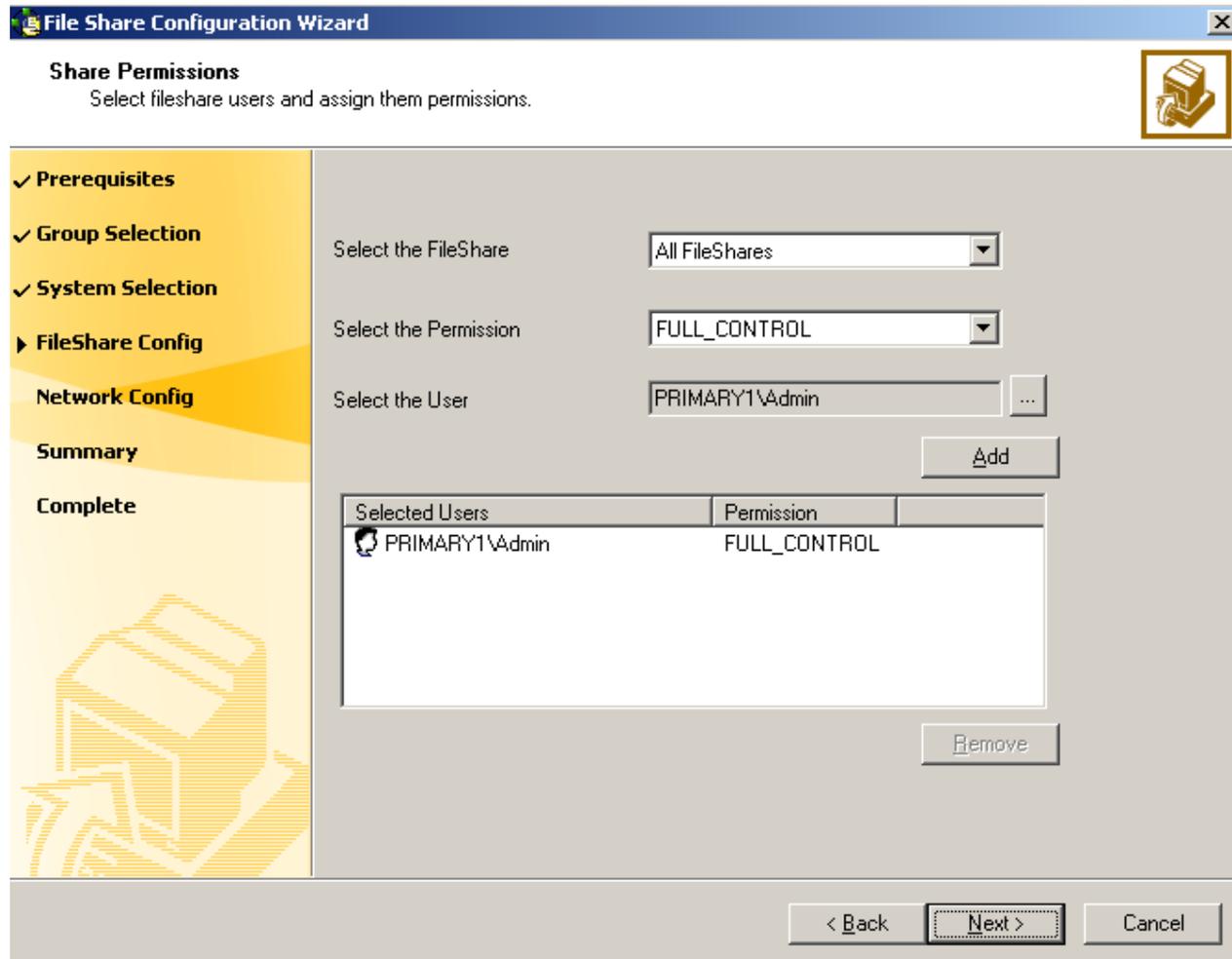


Once all necessary accounts have been selected, the **Share Permission** screen should appear as it does here.

*-All FileShares, or individual FileShares have been chosen.*

*-The level of permission has been set for the account.*

*-The accounts themselves should be shown in the display pane at the bottom of the screen.*



The **Network Configuration** section of the wizard allows for a user to insert the **Virtual IP Address** that will be used by the FileShare Service Group, as well as the **Subnet Mask**.

By default, the **Public Adapter** will be used for the Service Group and bound to the IP Address (**which should be a unique IP on the network**). This is due to the adapter being identified as Public when going through the Veritas Cluster Configuration Wizard.

The screenshot shows the 'File Share Configuration Wizard' window, specifically the 'Network Configuration' step. The title bar reads 'File Share Configuration Wizard'. Below the title bar, the section is titled 'Network Configuration' with the subtitle 'Configure your IP and NIC resources.' and a small icon of a server rack. On the left side, there is a navigation pane with a yellow background. It lists several steps: 'Prerequisites', 'Group Selection', 'System Selection', 'FileShare Config', 'Network Config' (which is currently selected and highlighted in a darker yellow), 'Summary', and 'Complete'. Below the navigation pane is a large, faint graphic of a server rack. The main area of the wizard is light gray. It contains two input fields: 'Virtual IP Address:' with a text box containing '0 . 0 . 0 . 0' and 'Subnet Mask:' with a text box containing '0 . 0 . 0 . 0'. Below these fields is a section titled 'Specify the adapter to be used on each system.' which contains a table with two columns: 'System Name' and 'Adapter Display Name'. The table has one row with 'PRIMARY1' in the first column and 'Public' in the second column. Below the table is an 'Advanced Settings...' button. At the bottom of the window, there are three buttons: '< Back', 'Next >', and 'Cancel'.

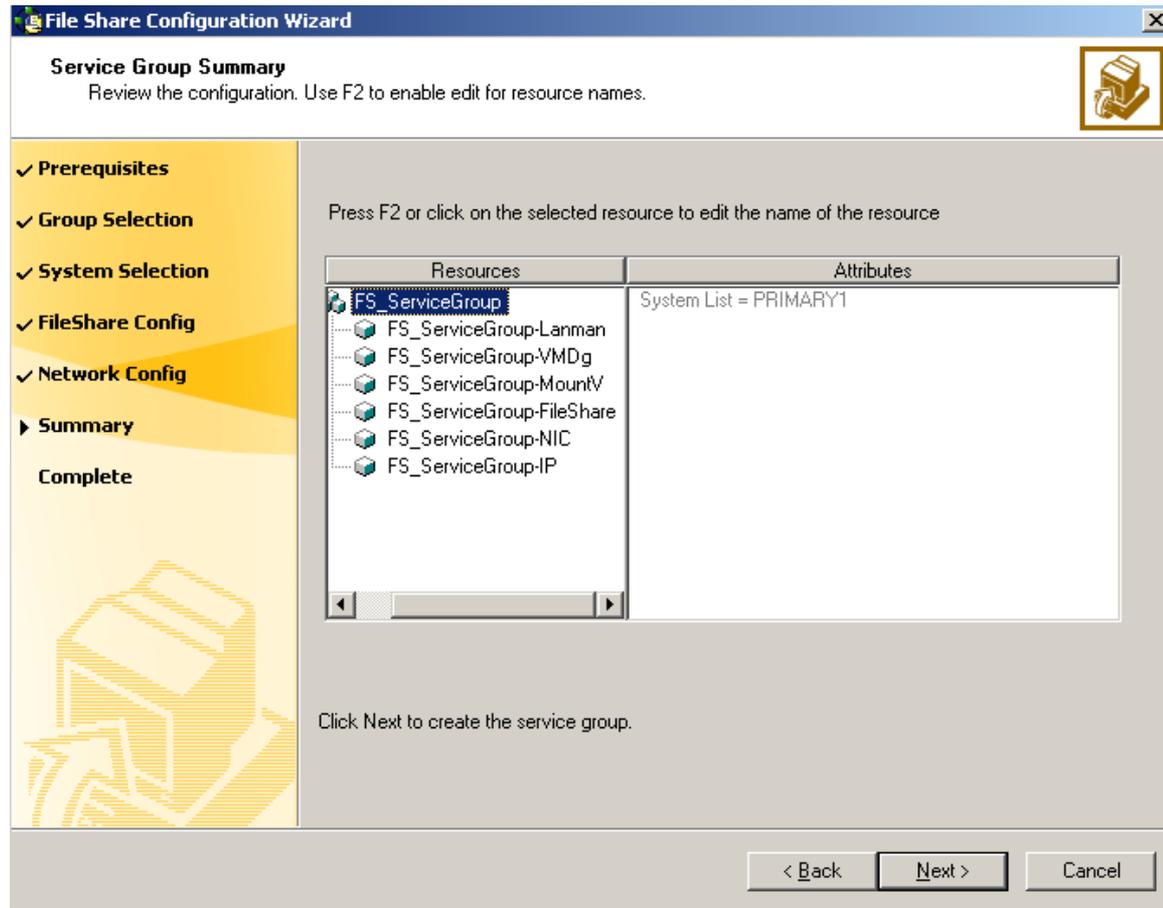
System Name	Adapter Display Name
PRIMARY1	Public

The **Service Group Summary** screen will display a list of the resources that will automatically be created by the FileShare wizard and added to the existing cluster structure.

Highlighting each resource will present information on the default attributes of that resource.

The attributes can be edited in the **Cluster Console Manager** after creating the Service Group.

Clicking **NEXT** begins the creation process.



The last portion of the FileShare Configuration Wizard will allow for the Service Group to be brought online once the creation of the resources is complete.

If it is necessary to edit individual cluster resource attributes prior to bringing the Service Group online, then it is suggested to leave this option unchecked.

Clicking **FINISH** will close the wizard and bring the Service Group online, if selected.

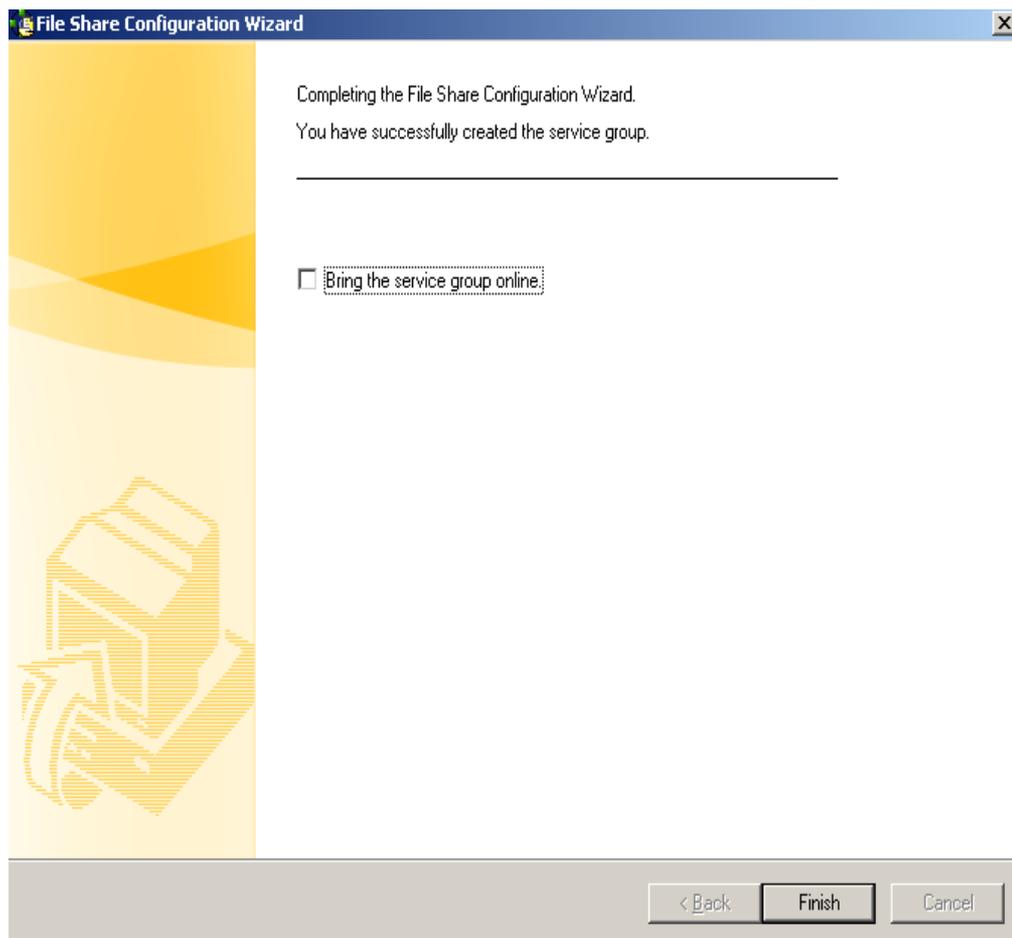
To access the newly created FileShare:

-Go to Start

-Click Run

-Type in the following command:

**\\<VirtualServerName>\<ShareName>**





# Thank you!

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# Thank you!

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