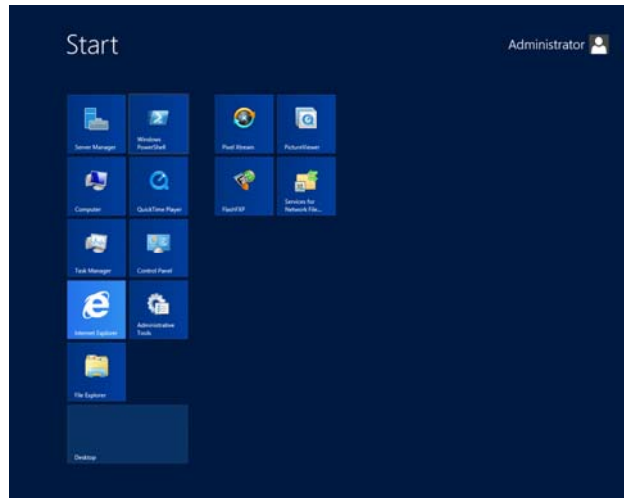


Configuring Ethernet Audio on Microsoft Windows Server 2012

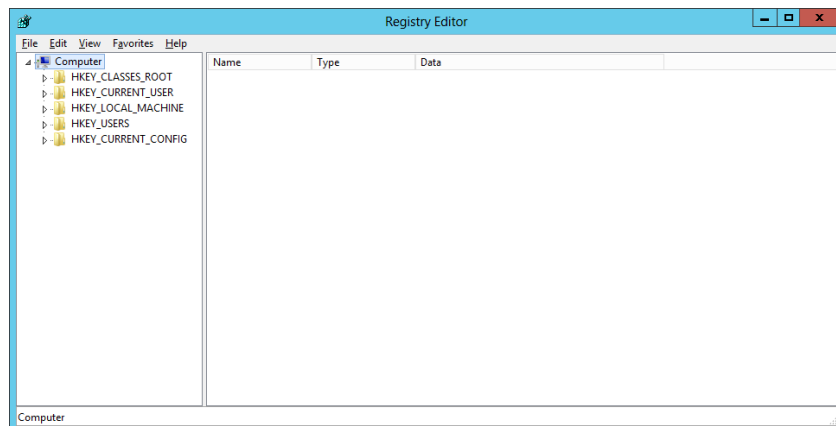


Ethernet Audio uses the NFS file sharing system available in Server 2012 to allow file sharing with DigiCart/E or DigiCart/EX.

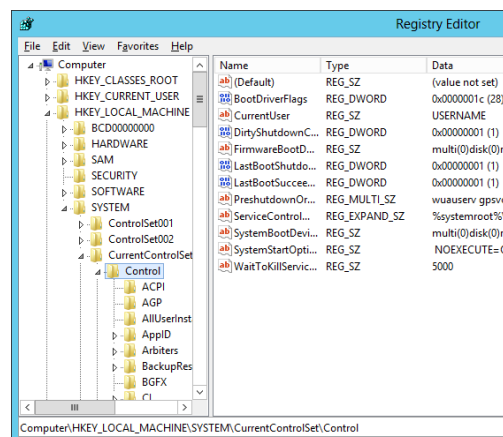
First, we need to make a change to the registry to allow "anonymous" users to be part of the Everyone group. Go to Start and select Windows Power Shell.



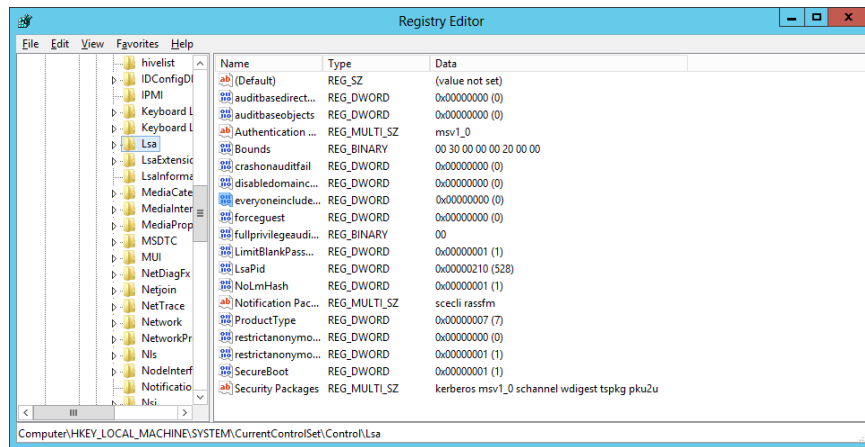
In the shell terminal, type **regedit** **Enter**. The Registry Editor will open.



Open HKEY_LOCAL_MACHINE, and under this open SYSTEM, CurrentControlSet, and Control by clicking on the triangular arrow icons to the left of each item.



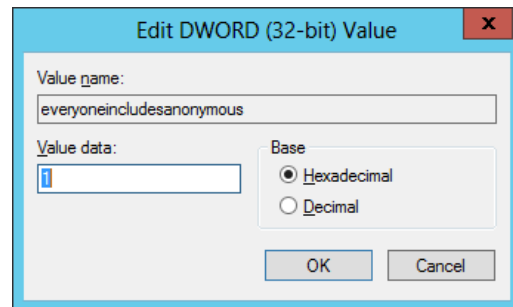
Scroll down, and within Control, click on Lsa (the item itself, not its arrow icon). Within Lsa, double click on the item “everyoneincludesanonymous”:



The Edit DWORD dialog will open.

Change the Value data from 0 to 1.

Click OK. Close the Registry Editor. Restart the computer by pressing Control + Alt + Delete, click the Power icon, and then Restart.

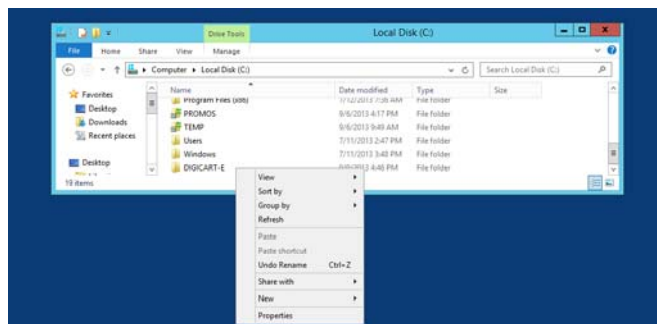


Create the Folders That Will Be Shared.

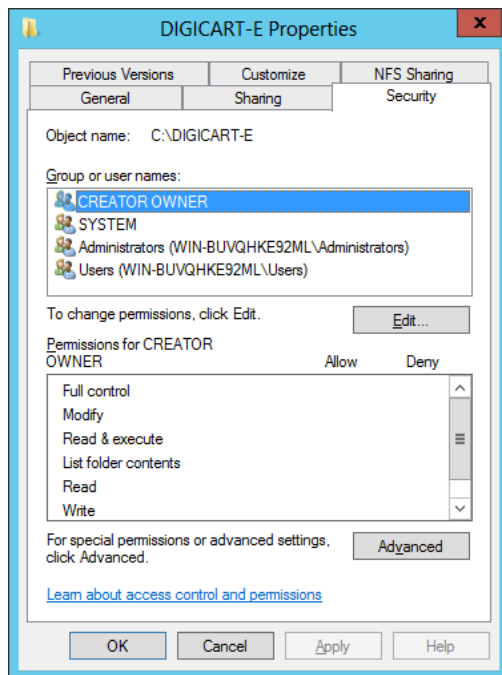
Create one or more Folders that will be used as DigiCart/E "Net Drives". These can be on any letter mapped drive accessible by the Server 2012 host computer. They can also be within other folders. The name should be 14 characters or less to allow the NFS share name to be the same and still fit in the DigiCart/E display. If you do not know the names or how many you will use, create at least one now. In these instructions we are using the folder name DIGICART-E.

Within each folder, create ten Subfolders named 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 and S. Note that these correspond to the DigiCart's ten Directories within each DigiCart Drive. When mounted on the DigiCart, it will appear as an additional Drive selection on Drive number 3, 4, 5 or 6. (When discussing these structures here, Folder refers to the folders that will be shared, Subfolder refers to the 0-9 and S folders created within it. Drive and Directory refer to the same things from the perspective of their use on the DigiCart as opposed to their use on Windows.)

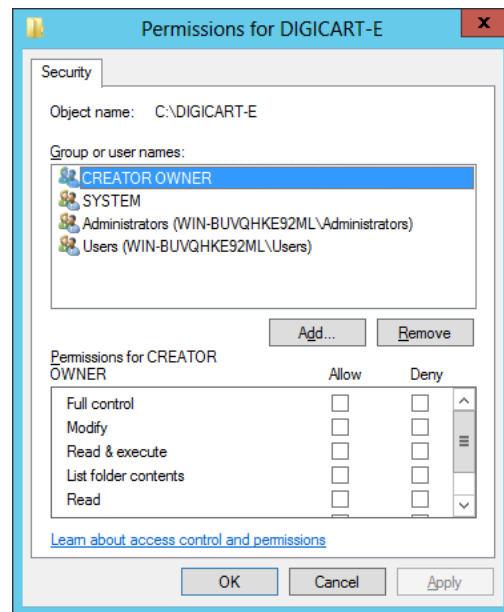
Right click on the Folder and select Properties from the pop-up menu.



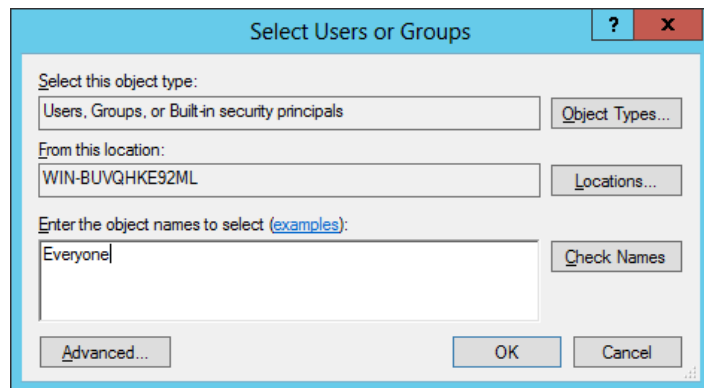
In the Security tab, click Edit.



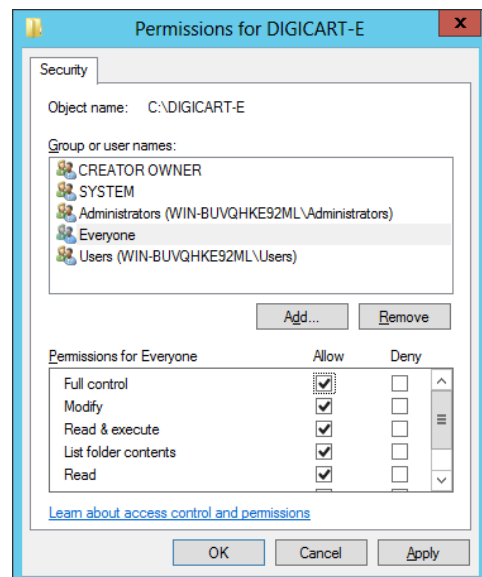
Click Add.



Type the name Everyone in the object names field and click OK:

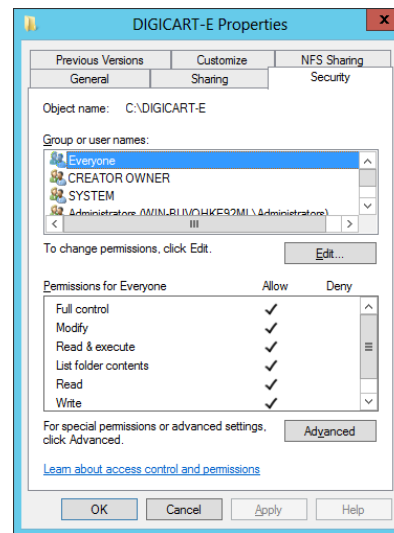


Click on the Allow Full Control check box.



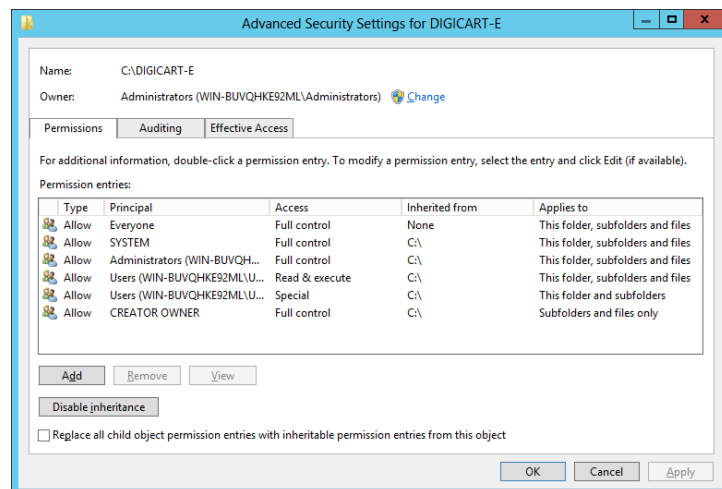
Click OK.

Select Everyone.



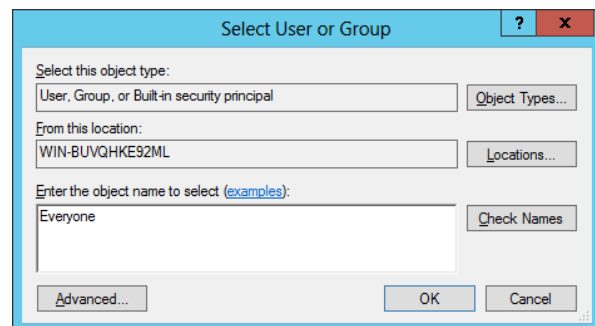
Click Advanced.

Click Change.



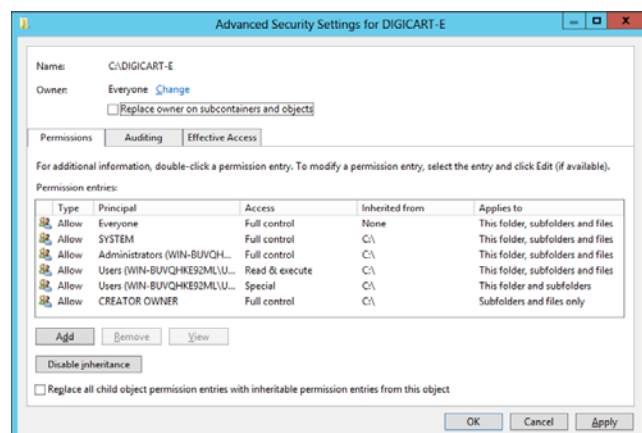
Note that you must be the Administrator or logged in as a member of an administrator group that has permission to make Ownership changes.

Type Everyone in the Object Name field.



Click OK.

Check Replace Owner on subcontainers and objects.

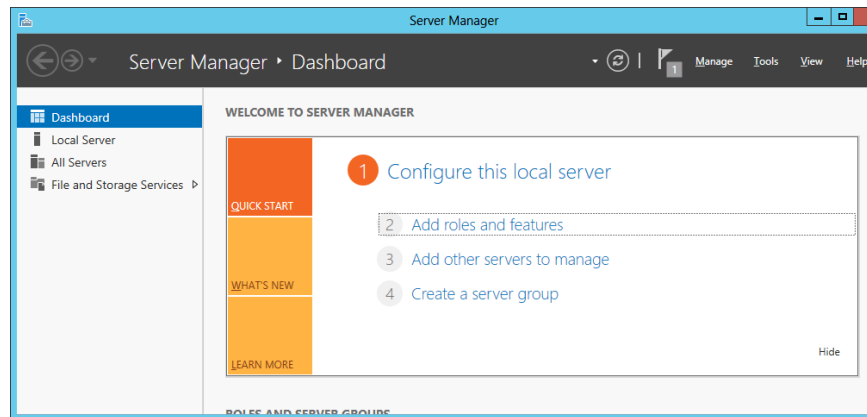


Click OK. The Folder is now ready to be shared via NFS.

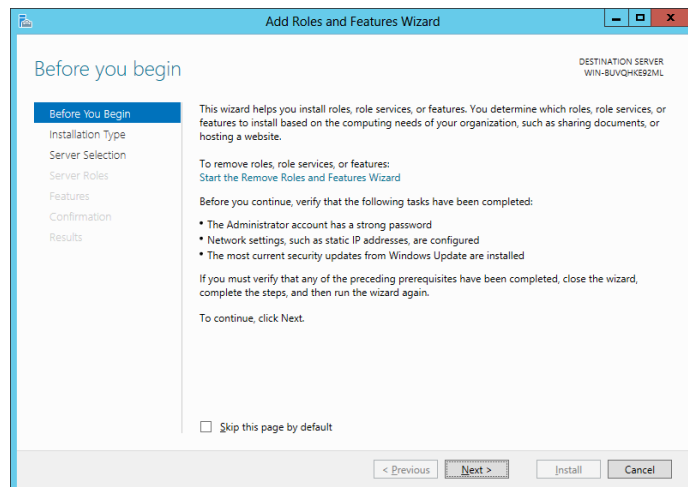
Using the Server Manager to Configure the NFS Service.

Open the Server Manager.

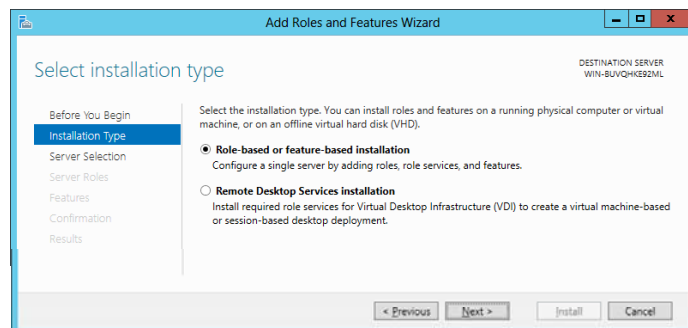
Click on "Add roles and features".



Verify the items listed in the onscreen instructions. Click Next.

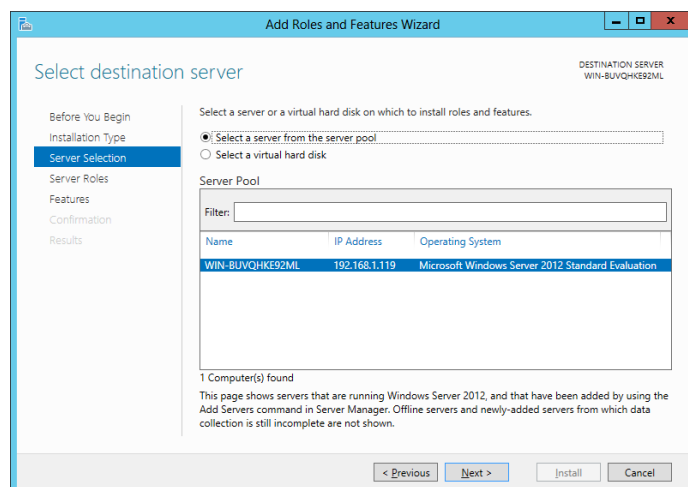


Select Role-based or feature-based installation.

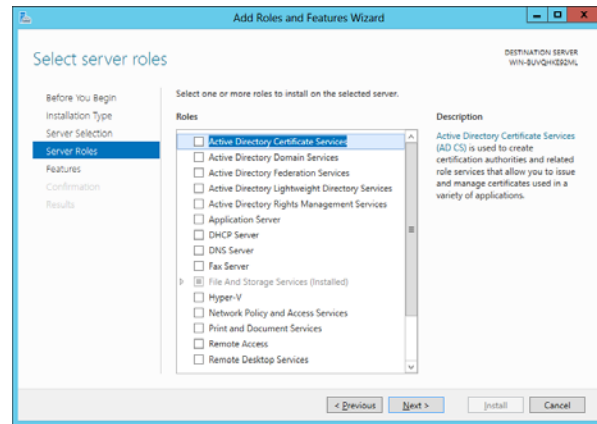


Click Next.

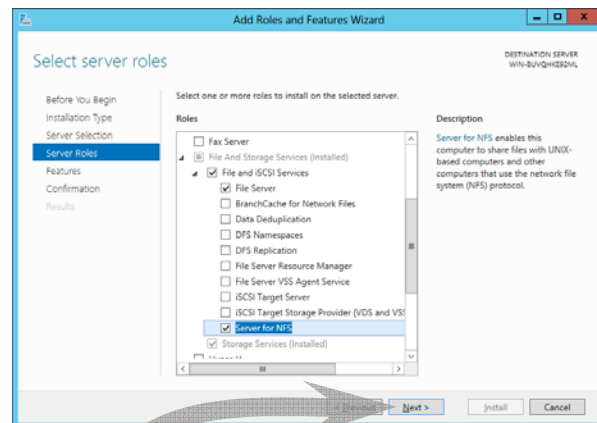
Select the server from the server pool. Normally there will be only the local computer displayed.



Click the arrow next to File and Storage Services to open that item.

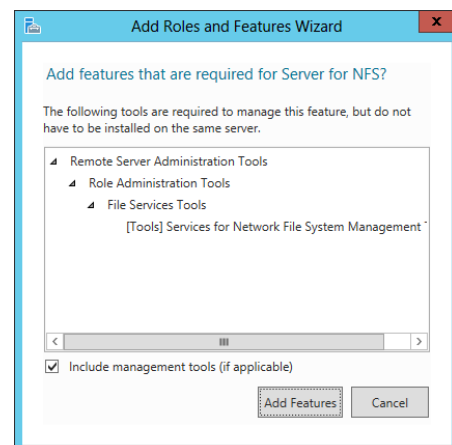


Click the arrow next to File and iSCSI Services (Installed) to open that item.

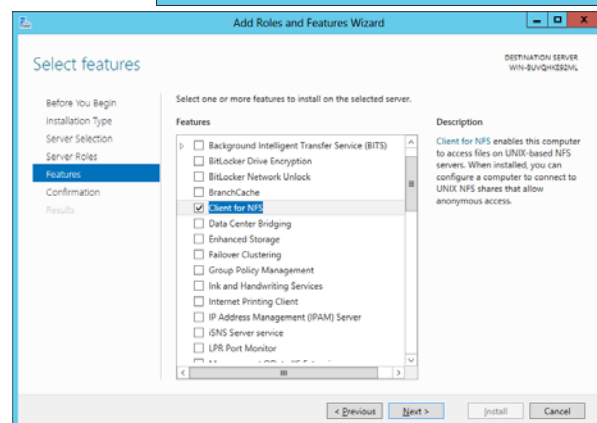


Check the box for Server for NFS.

When prompted to add additional roles and components click Add Features.

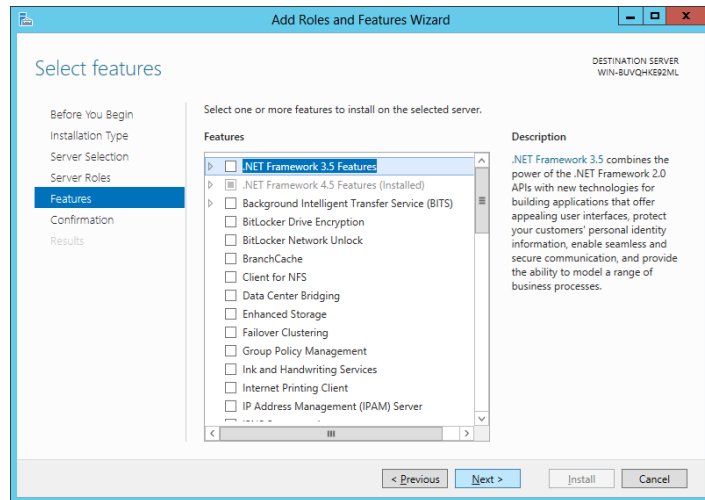


Click Next.



Check the box for Client for NFS.

Click through Features by clicking Next.

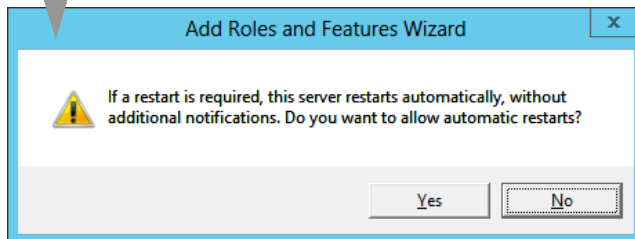
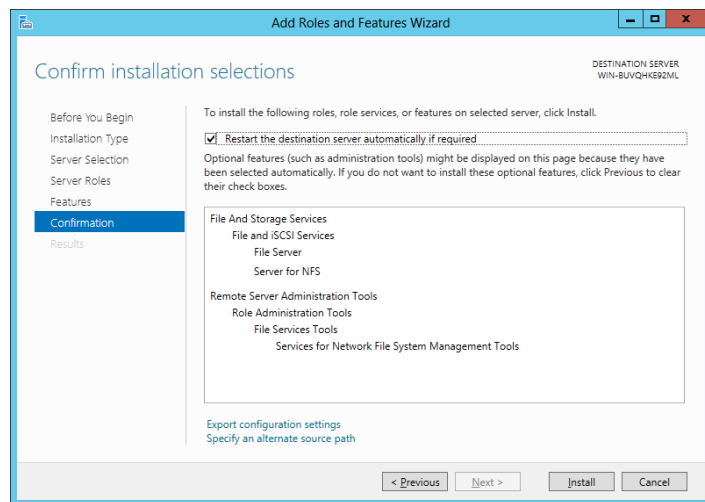


Check "Restart the destination server automatically if required".

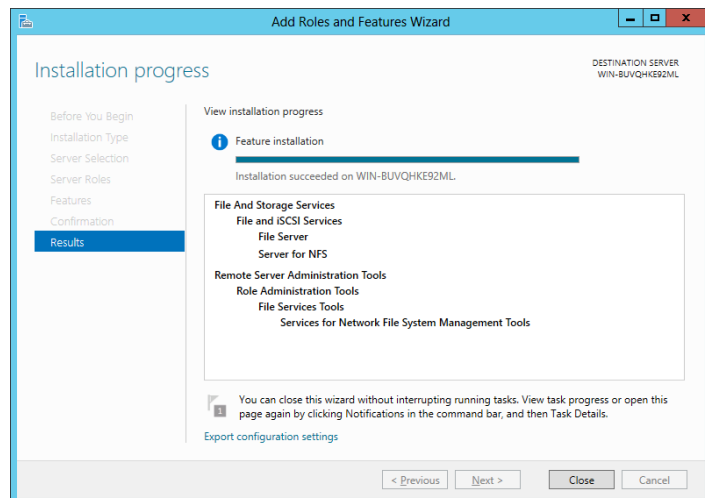
In the pop up dialog, click Yes to confirm that you want the server to restart if necessary.



Click Install.



The installation will start. You can watch the progress if you wish, or simply click Close to close the window.



Sharing the Folder with NFS

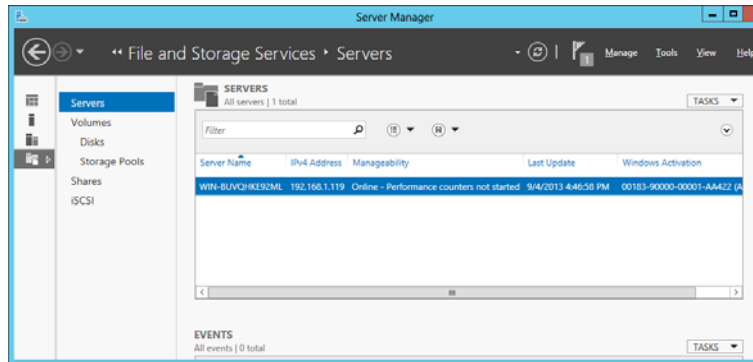
Now that the NFS service has been configured, you can create shares in two ways. One is by using the Server Manager, the other is by accessing the Properties of the folders to be shared.

To Create an NFS share using Server Manager:

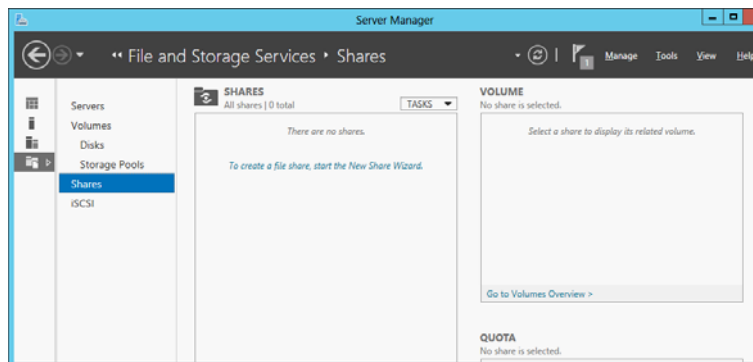
Start the Server Manager.
Click on File and Storage Services
Servers.

Select the Server in the
Servers field.

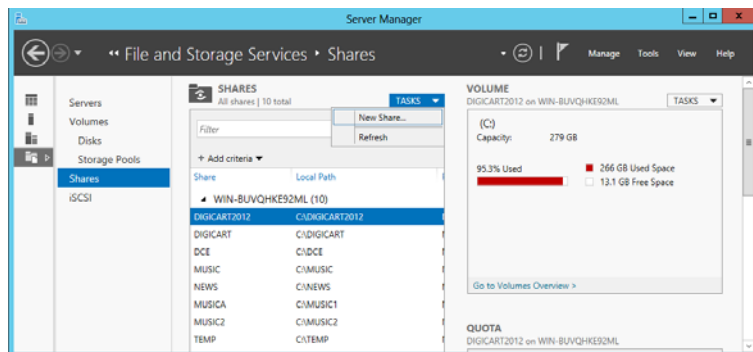
Click Shares.



If there are no shares defined,
you can click on "To create a
file share, start the New Share
Wizard".



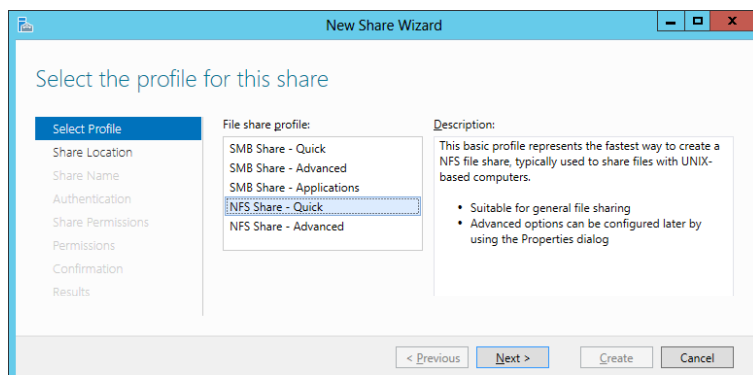
Otherwise, in Tasks, select
New Share, or if you are
going to change an existing
share, select it as shown here
for DIGICART2012.



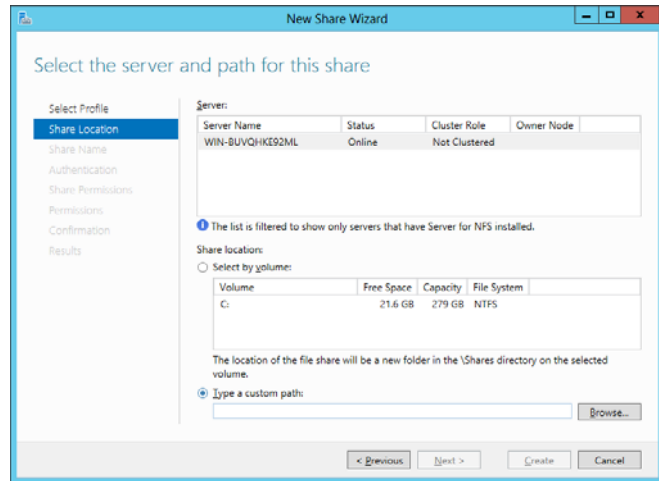
Click on Select Profile.

Select NFS Share – Quick

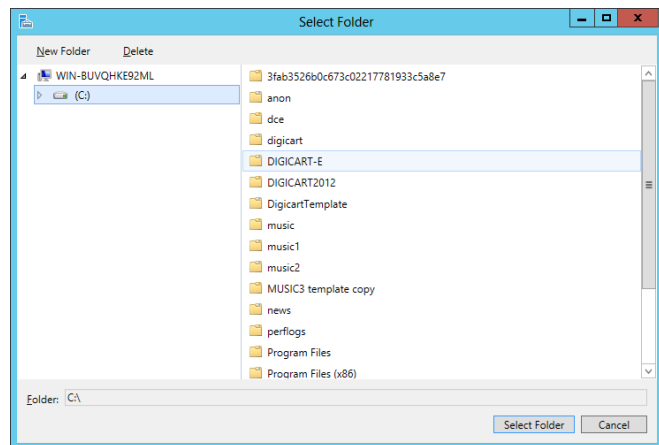
Click Next.



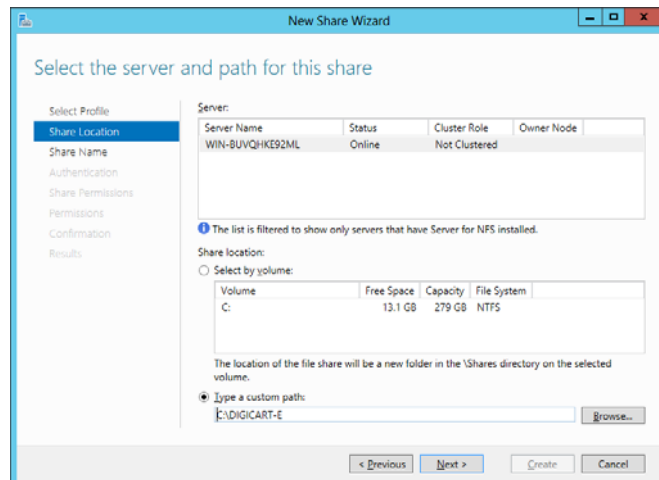
Select Type a custom path.
Click Browse.



Click on the folder you wish to share.



Click Select Folder.



Click Next.

You can set the share name to be different than the folder name, but this is not recommended. Share names should be no more than 14 characters long to fit in the DigiCart/E display.

Click Next.

The 'Specify share name' screen in the New Share Wizard. The 'Share name' field is set to 'DIGICART-E'. The 'Local path to share' is 'C:\DIGICART-E' and the 'Remote path to share' is 'WIN-BUVQHK92ML/DIGICART-E'. The 'Authentication' step is highlighted in the left sidebar.

Select "No server authentication (AUTH_SYS)", then "Enable unmapped user access" and "Allow anonymous access".

Click Next.

The 'Specify authentication methods' screen. Under 'No server authentication', 'No server authentication (AUTH_SYS)' is selected. Below it, 'Enable unmapped user access' and 'Allow anonymous access' are both checked. The 'Authentication' step is highlighted in the left sidebar.

Click Yes. (This measure was taken in the first section on editing the Registry.)

A warning dialog titled 'Server Authentication'. It states: 'You enabled anonymous access for NFS shares, which requires applying Let Everyone permissions to anonymous users. Making this change to the security profile of your system should only be done if anonymous access is absolutely necessary. Do you want to apply Let Everyone permissions to anonymous users?'. There are 'Yes' and 'No' buttons.

Click Add.

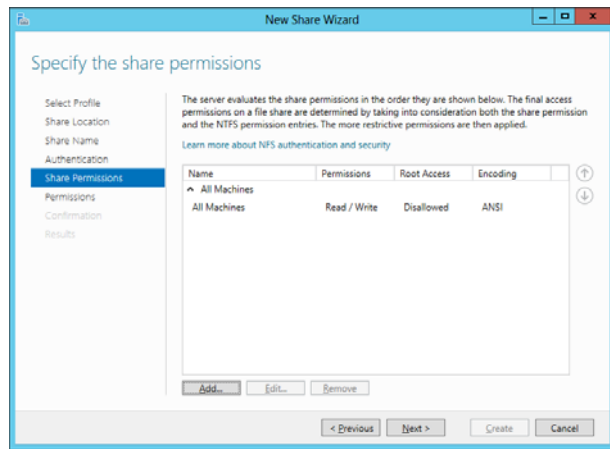
The 'Specify the share permissions' screen. It shows a table with columns for Name, Permissions, Root Access, and Encoding. The 'Add...' button is highlighted. The 'Share Permissions' step is highlighted in the left sidebar.

Select All Machines.

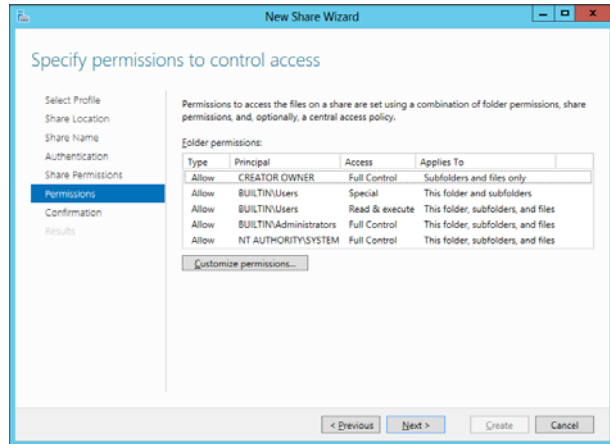
Under Share permissions select Read/Write.

Click Add.

The 'Add Permissions' dialog. It asks to 'Grant permissions to access the NFS share to a host, client group, or netgroup'. The 'All Machines' radio button is selected. Under 'Share permissions', 'Read / Write' is selected in the dropdown menu. There are 'Add' and 'Cancel' buttons.

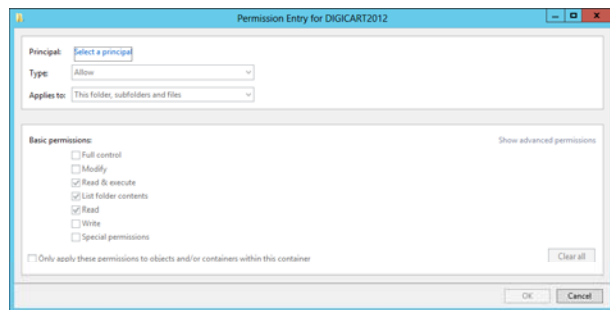


Click Next.

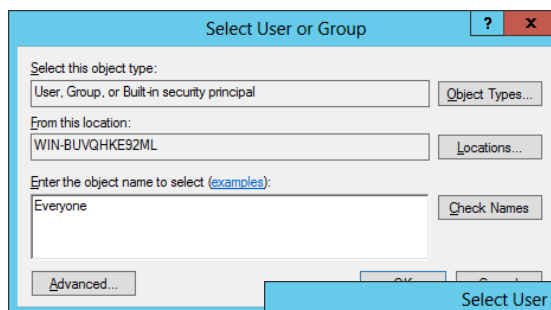


If Everyone is not listed in the Principal column, then add Everyone by clicking Customize Permissions.

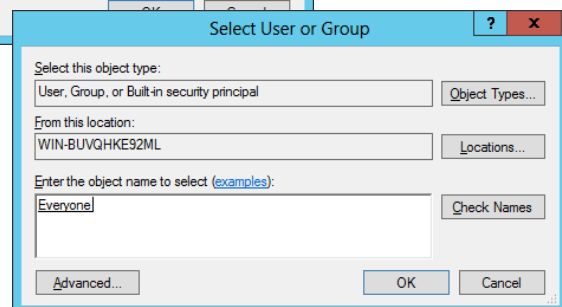
Click on Add.



Click on Select A Principal.



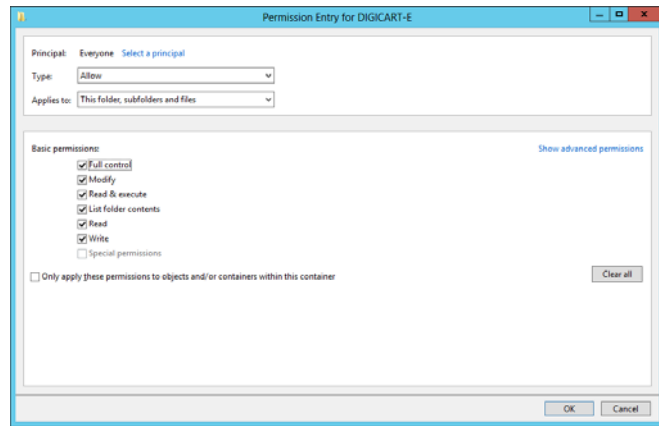
Type Everyone in the Object Name field.



Click Check Names.
Everyone should be underlined.

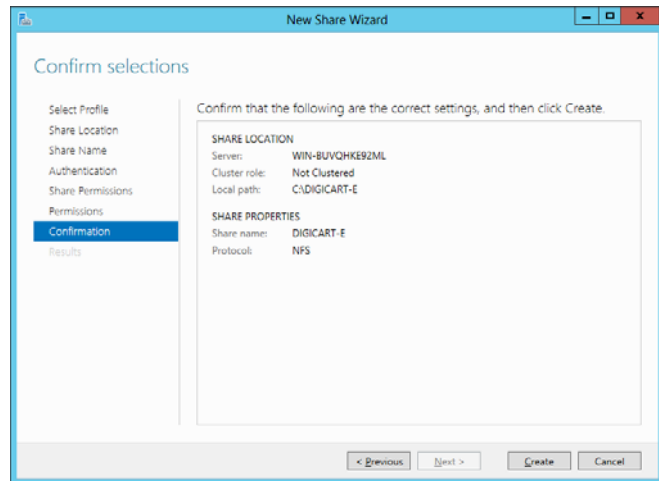
Click OK.

Select Full Control.

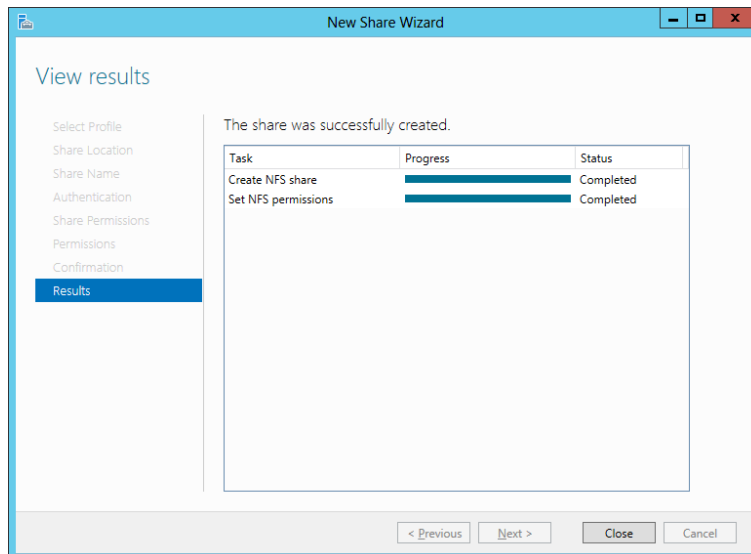


Click OK.

Click OK again, then click Next.



Finally, click Create.



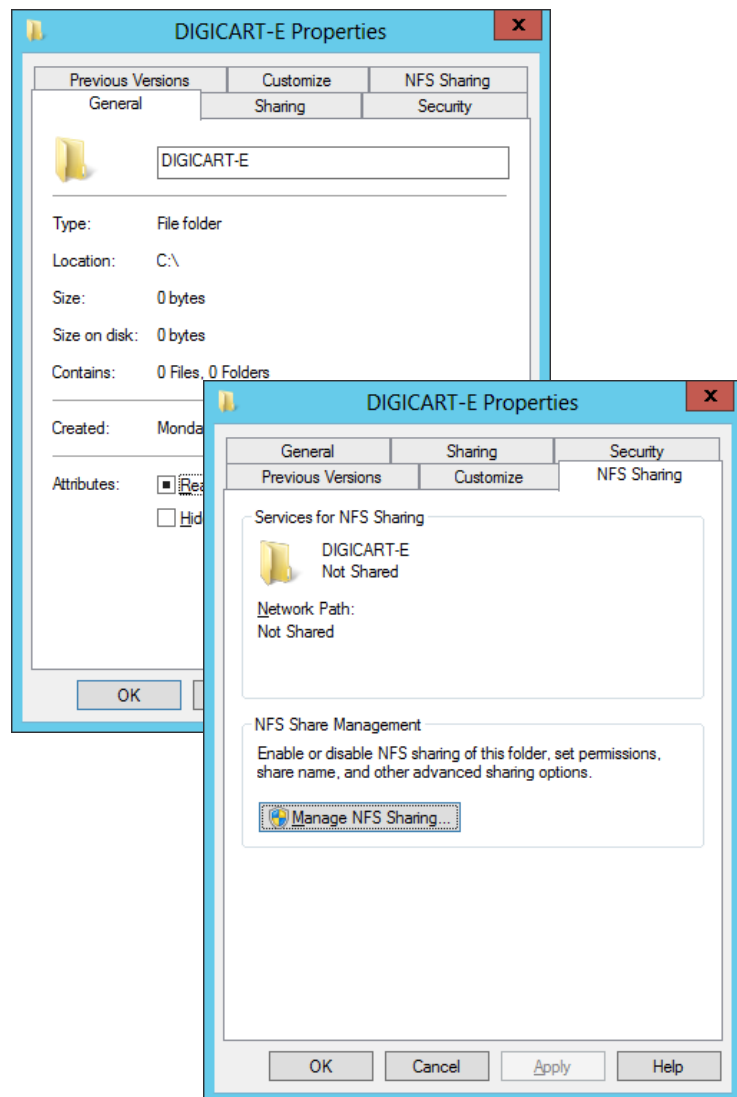
The DigiCart/E can now mount the share using its Mount Net Drive utility.

You can also share the DigiCart folders using standard Windows file sharing to enable other users on the network to access the files.

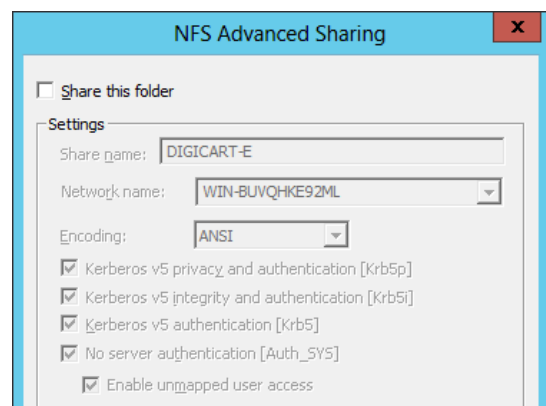
Using Folder Properties to Set Up NFS Shares

In Windows File Explorer, right click on the Folder you wish to share and select Properties from the pop-up menu.

Click the NFS Sharing tab.



Click Manage NFS Sharing.

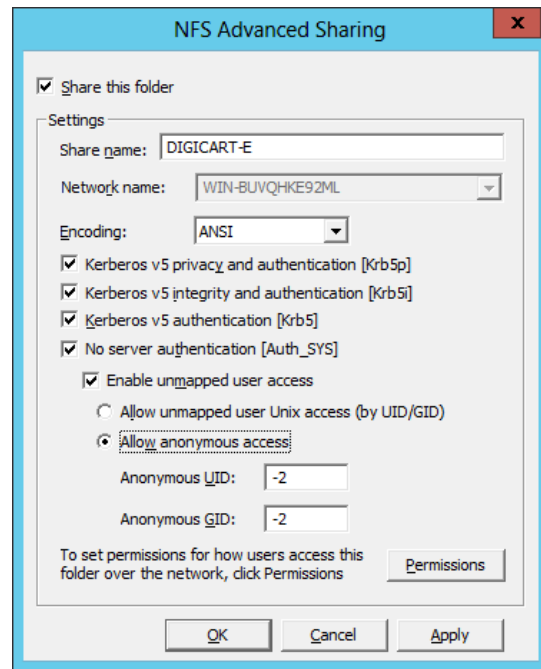


Check Share this folder.

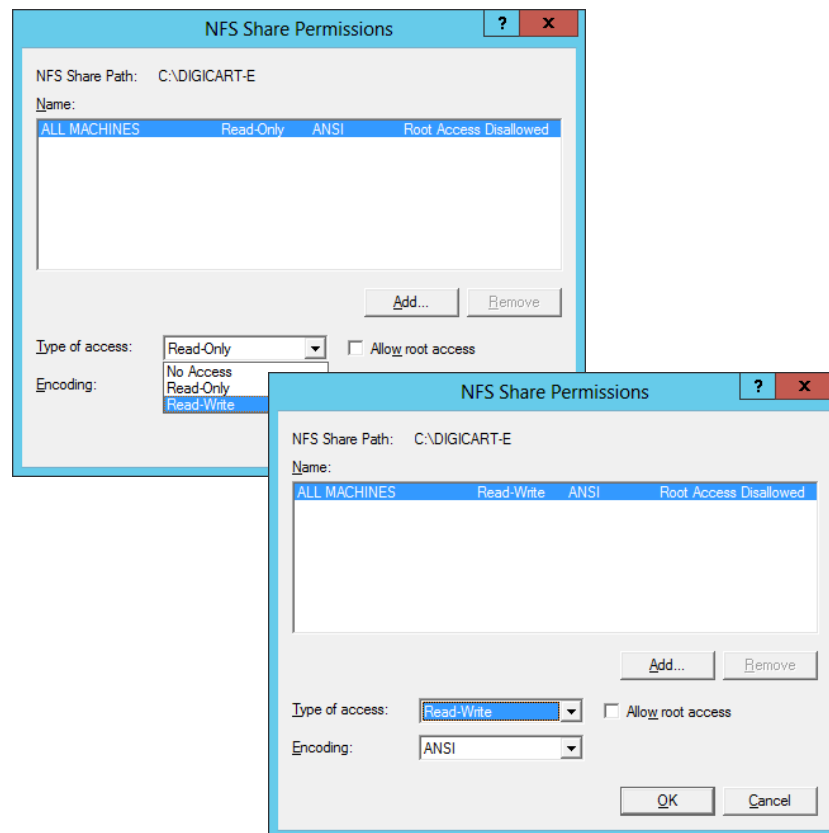
The share name can be edited here, but it is recommended that it be left the same as the Folder. The share name should be 14 characters or less to fit in the DigiCart/E Drive Name display.

Select Allow anonymous access.

Click on Permissions.



In Type of access select Read-Write.



Click OK.

Finally, click OK in the NFS Advanced Sharing dialog, and Close in the Properties dialog.

The DigiCart/E can now mount the share using its Mount Net Drive utility.

You can also share the DigiCart folders using standard Windows file sharing to enable other users on the network to access the files. This is found under the Sharing tab in the Properties dialog.