



TitanFTP

S E R V E R

Using Group Level Virtual Folders Quick Start Guide

August 2009

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Thank you for purchasing Titan FTP Server®.

Please Note: The following instructions will help you to configure Group Level Virtual Folders in Titan FTP Server. Some screens in this quick start guide may contain options that do not pertain to Group Level Virtual Folders. If you need additional information regarding these steps, please see the [Titan FTP Administrator User's Guide](#). For the purpose of this quick start guide, we will guide you through these options without configuring additional settings. A list of Frequently Asked Questions (FAQ) is available at our [Knowledgebase Support Center](#), and a complete listing of [SRT Quick Start guides](#) is also available online.

Group Level Virtual Folders—Overview

Virtual Folders are folders that can be mapped into a server's data directory and are used to link or map *external* folders into a user's directory space. In a *Virtual Folder* it appears as if the data resides within folder structure; however, the data is actually stored somewhere else. If you are a Windows user, you can think of a *Virtual Folder* as a Windows Shortcut. The link appears in one location and the data lives in another location. For UNIX users, *Virtual Folders* are very similar to Symbolic Links.

Group Level Virtual Folders allow data to be shared with all users of a given group. In a *Group Level Virtual Folder*, all users can share the same data and have Directory Access Rights to that data. *Virtual Folders* can be added at the Server, Group, or User level. *Virtual Folders* added at the Group level can be made accessible to all users in the group, depending on the Directory Access Permissions that are set for that group. *Virtual Folders* added at the User Level are limited to that specific user. When you add a *Virtual Folder* to a Titan FTP Server configuration, the default Directory Access Permissions will be set to *Read Only*. *Read Only* permissions means that users are allowed to browse the folder, and download information, but cannot modify the contents or upload files. You can modify the standard Directory Access Permissions after the *Virtual Folder* has been added to the configuration.

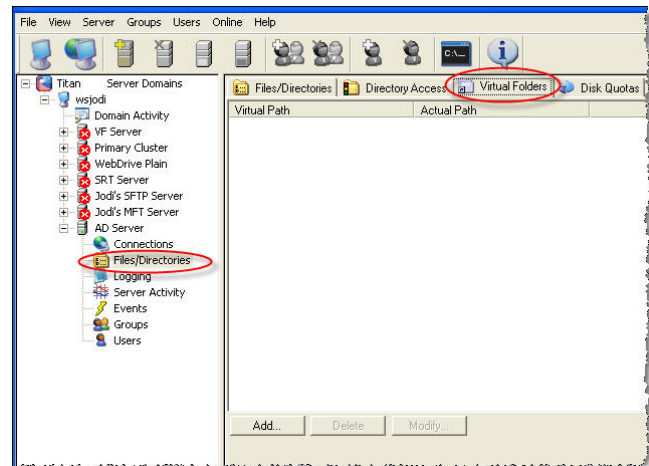
One of the benefits of *Virtual Folders* is that you can access network shares from the Titan FTP Server through the use of *Virtual Folders*. Titan FTP Server supports the ability to add a UNC (Universal Naming Convention) path into the name space. For example, if you have a share on your network called **\\MyServer\My Music** you can use *Virtual Folder* support to map that into your Server Data Directory as **/pub/My Music/** or **/usr/joe/My Music/**

If you attempt to create a *Virtual Folder* for a mapped network drive, Titan FTP will replace the drive mapping with the actual UNC name. This is because the Titan Service does not have access to mapped drives, only to UNC shares. Under Windows NT/2K/XP, Titan FTP Server runs as an *NT Service* which, by default, does not have access to shared network resources because shared network resources are based on the authorized NT user. If you are mapping a UNC share, you must make sure that the account under which the Titan Service is running has access to the UNC. Otherwise, you will need to enter the appropriate username and password under the UNC Accounts tab.

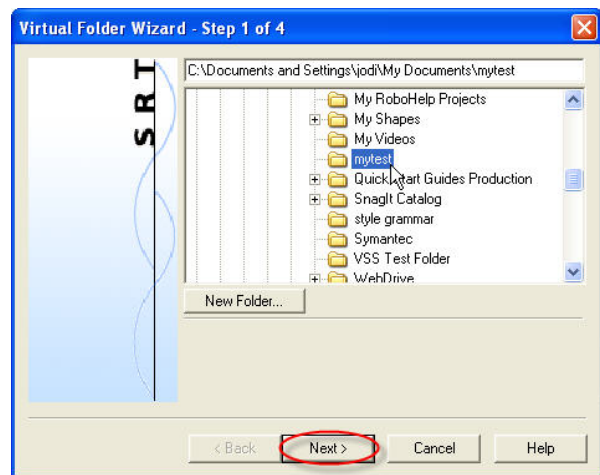
See [Appendix A](#) for more information about UNC configuration and how to create a special NT user account for Titan FTP Server.

Configuring the Virtual Folder

1. Run the *Titan FTP Server Administrator*. On the *Titan FTP Server Domains* menu tree, select the **Group** that will access the Virtual Folder, and then select **Files/Directories**. Select the **Virtual Folders** tab and then click **Add**.



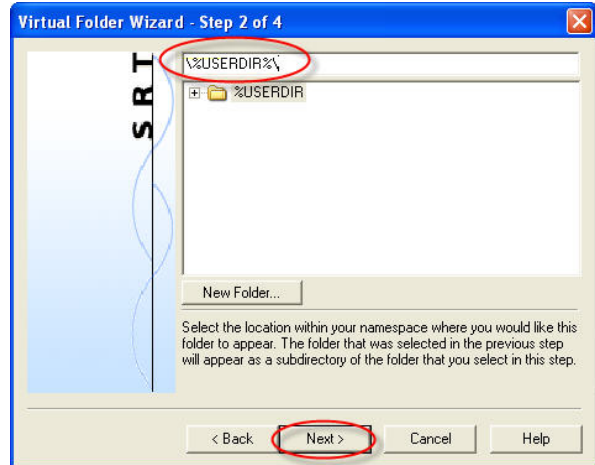
2. To select the *fully qualified path* that will be mapped to the namespace for this group, browse to the actual/real **physical folder**. You may select a folder on your *local* computer, or you may choose a network folder that has been *previously shared*.* Click **Next**.



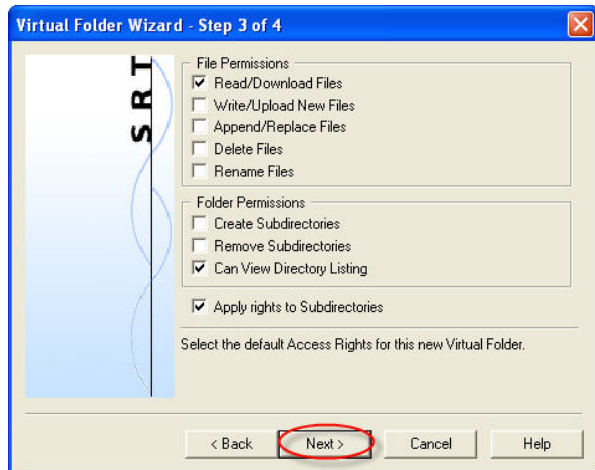
*If you are mapping a UNC share, make sure that the account under which the Titan FTP Service is running has access to the UNC. See [Appendix A](#) for more information about mapping UNC shares.

3. Select the **location within your namespace** where you would like this folder to appear. The folder that you selected in the previous step will appear as a subdirectory of the folder that you select in this step. To ensure that the *Virtual Folder* will appear as a subfolder under the user's home directory, type `\%USERDIR%\`

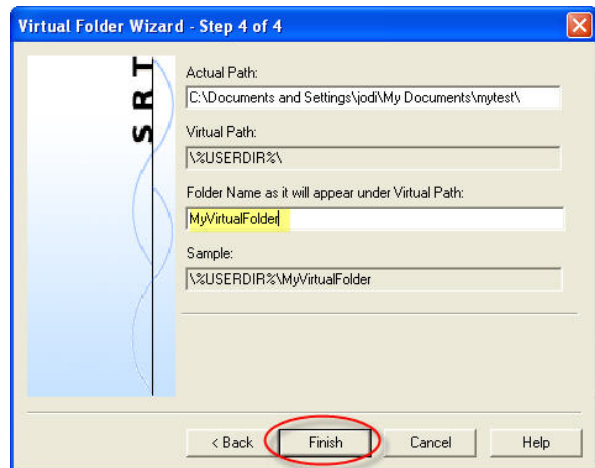
Click **Next**.



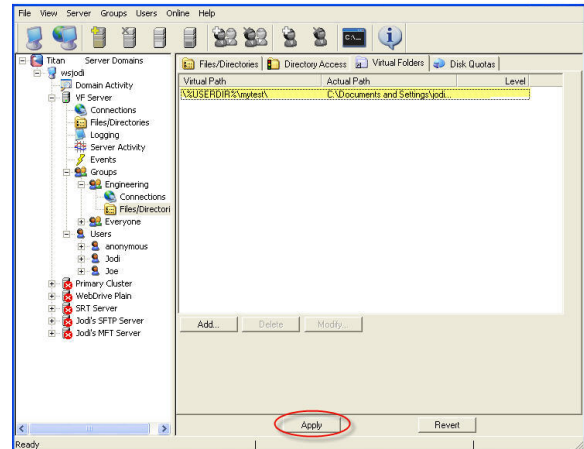
4. Select the **default Access Rights** for this new Virtual Folder using the check boxes. Click **Next**.



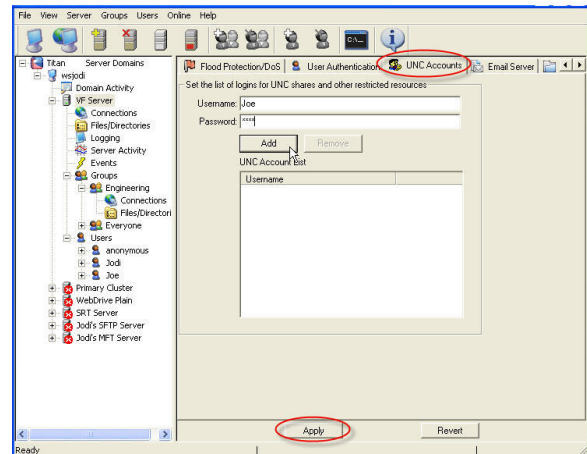
5. The Actual Path of the folder is displayed and the Virtual Path is displayed. You can change the **Folder Name as it will appear under the Virtual Path**, or you can leave the default name (which is the same as the *Actual Path* name). In our example, the name of the *actual* folder is *mytest*. We typed in *MyVirtualFolder* so that in the *Virtual Folder* path the folder *mytest* will appear as the Folder Name *MyVirtualFolder*. Click **Finish** to generate the Virtual Folder mapping.



6. The *Virtual Path* and the *Actual Path* are now displayed in the *Virtual Folders* tab. Click **Apply**.



7. Select the *UNC Accounts* tab. Type the **Username** and **Password** and then Click **Add**. When you are finished adding users, click **Apply**.*

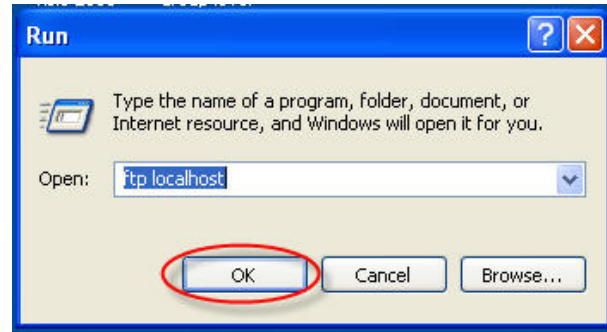


*If you are mapping a *UNC Share*, make sure that the account under which the Titan Service is running has access to the UNC share. Otherwise, you will need to enter the appropriate username and password into the *UNC Accounts* tab. See [Appendix A](#) for more information about mapping UNC Shares.

8. To test the Virtual Folder, open a *Command Prompt* window by selecting **Start** and then **Run**



9. Type **ftp localhost**. Click **OK**.



10. Type the **Username** and **Password**. At the next *ftp prompt* type **dir**

The VirtualFolder that you just created is now displayed as a subdirectory under the user's home directory.

```

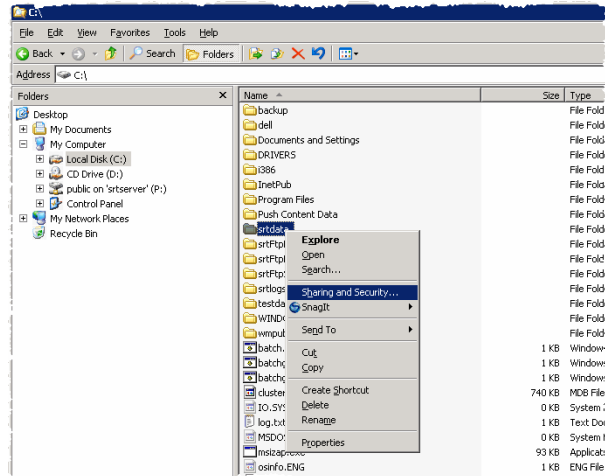
C:\WINDOWS\system32\ftp.exe
Connected to wsjodi.
220 Titan MFI Server 6.10.560 Ready.
User (wsjodi:(none)): joe
331 User name okay, need password.
Password:
230 Welcome Joe from 127.0.0.1. You are now logged in to the server.
230 User logged in, proceed.
ftp> dir
200 PORT command successful.
150 File status okay; about to open data connection.
drwxrwx--x 1 owner group      512 Feb 07 15:25 .
drwxrwx--x 1 owner group      512 Feb 07 15:25 ..
drwxrwx--x 1 owner group      512 Feb 07 14:36 MyVirtualFolder
226 Closing data connection. Transferred 177 bytes.
ftp: 177 bytes received in 0.02Seconds 11.06Kbytes/sec.
ftp>
  
```

Note: Virtual Folder updates are not real-time. If a user is currently connected to the server, and you make changes to the Virtual Folder list, users will need to log out and then log back into the system to see the Virtual Folder changes.

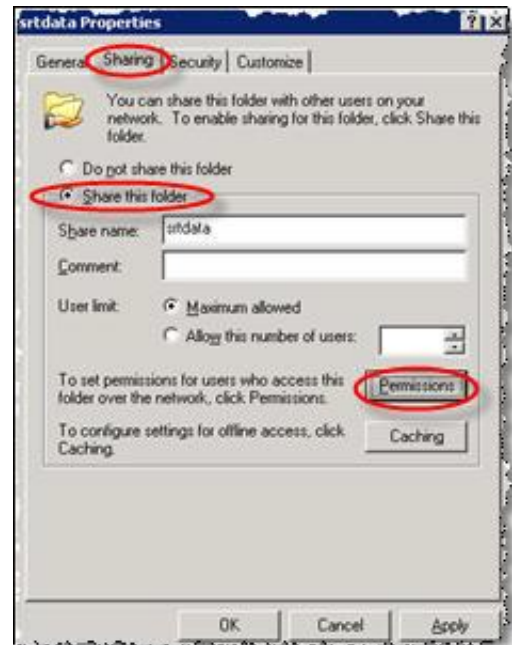
Group Level Virtual Folders—Setting up a UNC Share

The UNC must be configured so that it can be accessed by the Titan FTP Server. This requires a UNC *share* and NTFS (NT File System) *permissions adjustments* to the folder where the data is stored.

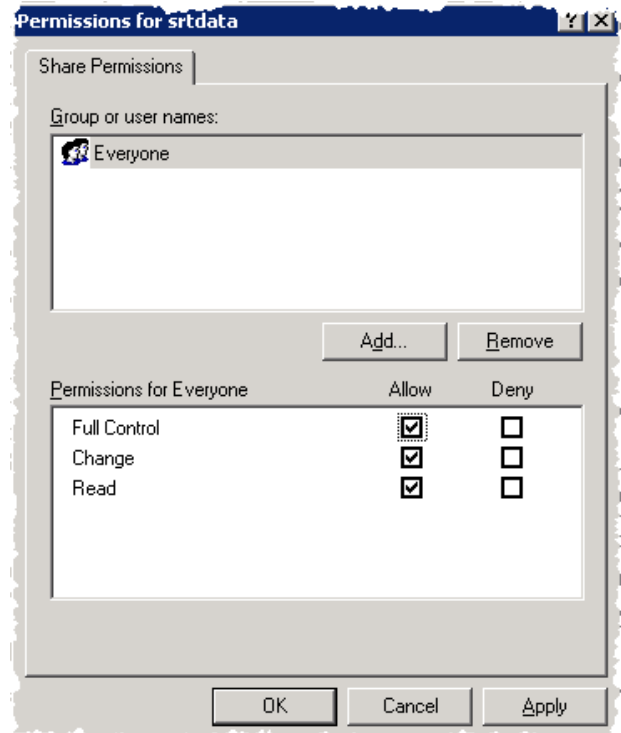
1. Run *Windows Explorer* and locate the directory where data will be stored. For our example, all data is stored under C:\SRTDATA\. Right-click on the folder and select **Sharing and Security** from the pop-up menu. This will display the *UNC Sharing dialog* for the selected folder.



2. Select the **Sharing** tab and then select the **Share This Folder** radio button. When you are finished, click **Permissions**.



- Update the *Permissions* on the share so that the Titan FTP Servers will be able to access data on the share.* Once you have properly set the permissions for the NTFS folder and share, click **OK**.



*Incorrect permissions will prevent Titan FTP Server from being able to access the data. Typically the Titan FTP Service runs under the context of a special built-in Windows system account, such as *Local System* or *Local Service*. These built-in accounts do not have proper NTFS rights to access files stored on remote UNC's. There are two options: you can either grant *full NTFS rights* to all users which will allow Titan FTP to gain access to the UNC, **or** you can *create a special NT User Account* for the Titan FTP Service, and then add that special NT User Account to the ACL list for both the share and the underlying NTFS file system. (NOTE: the ACL (Access Control List) for the *Share* is different than the ACL for the underlying folder on the NTFS drive). After you create a special NT user account for the Titan FTP Server, you must give that NT user account an *Access Control Entry (ACE)* for the underlying folder **and** an *ACE in the Access Control List (ACL)* for the Share so that the special NT user account can access the data on the UNC share.

Group Level Virtual Folders—Create a Special NT User Account

You can configure Titan FTP Server for mapping to a UNC Share in *Group Level Virtual Folders* using a special NT User Account. This special NT User Account will be given certain rights not usually available to other NT User accounts. The Titan FTP Service will also need to be modified to use this new NT User account.

1. On the PDC, create a new domain user account and make note of the username and password. For our example, we will use *titanuser* as the username and *titanpass* as the password. **NOTE: DO NOT USE THESE NAMES IN YOUR CONFIGURATION; USE SOMETHING VERY DIFFERENT TO PREVENT SOMEONE FROM POSSIBLY HACKING IN TO YOUR SYSTEM!**
2. Make *titanuser* a member of the *Domain Admins* and *Domain Users* groups.
3. Open the **Local Security Policy** applet on the **PDC** and under **Security Settings -> Local Policies -> User Rights Assignments** make sure that *titanuser* is granted the right to **Access Computer From The Network** and **Act As Part Of Operating System**.
4. Install Titan FTP Server on the PDC and restart the PDC.
5. Open the **Services** Control Panel Applet and scroll down to the **Titan FTP Server** service. Right-click on the **Titan FTP Server** service and select **Properties**.
6. Modify the **Log on As:** section so that the Titan FTP Service will log on using the *titanuser/titanpass* account that was created.
7. **Stop** then **Restart** the Titan FTP Service.

Group Level Virtual Folders—Titan FTP Server UNC Accounts Tab

The *UNC Accounts* tab is used to define a list of domain usernames and passwords that will be used for authentication when Titan FTP Server needs to access a remote UNC share. If you have mapped a UNC Share, make sure that the account under which the Titan Service is running has access to the UNC share. Otherwise, you will need to enter the appropriate username and password into the UNC Accounts tab.

Since the Titan Service usually runs under the context of the *Local/System* NT Account defined for the local PC, it does not normally have rights to access a UNC resource that is located on a remote server. When Titan attempts to access a file/folder stored on a UNC share, it will attempt to connect/authenticate itself against the remote UNC by sending over a UNC username and password along with the UNC.

Username - Type a domain username that will be used for authentication against the remote UNC share. The username can be simply a *username*, or *username@domain* or *domain\username*.

Password - Type the corresponding password that will be used for authentication against the remote UNC share.

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