

Network File Shares for Windocks

Windocks supports database cloning on the Windocks host and on Windows hosted network file shares. This article summarizes the steps to setup secure NFS based file shares within an Active Directory network. A second approach summarizes the setup of an anonymous network share within a workgroup.

Windocks also supports the use of snapshots and clones generated by NetApp, EqualLogic, Pure Storage, and other Storage Array Networks. For assistance in using these third party solutions, contact Windocks at support@windocks.com.

Secure NFS based file share

NFS is used to create a secure network share that only allows access to the Windocks server. This provides secure use of databases by a named Windocks host, and it's users.

On the machine with the database files (the one that will be used for the network share), Open Windows Server Manager and select the file server host, File and Storage Services, Shares, and use the Task dropdown to select a "New Share," as highlighted below.



Select "NFS Share – Advanced."

	à	New Share Wi	zard	_ D X	
ecycle	Select the profile	for this share			
a	Select Profile	File share profile:	Description:		Manage
vindo	Share Location Share Name Authentication	SMB Share - Quick SMB Share - Advanced SMB Share - Applications NES Share - Quick	This advanced profile offers additional o configure a NFS file share.	ptions to enied	
wind	Share Permissions Permissions Management Properties Ouota	NFS Share - Advanced	assistance Configure default classification of folder for management and access Enable quotas	data in the s policies	B 74.8 G 390 G



For Authentication, select "Enable unmapped user access, by UID/GID".

3	a	New Share Wizard	
Recycle	Specify authentic	ation methods	
	Select Profile Share Location	Specify the authentication methods that you want to use for this NFS share.	Manage
windo	Share Name	└ Kerberos v5 authentication	
	Authentication	Kerberos v5 authentication(Krb5)	
	Share Permissions	☐ Kerberos v5 authentication and integrity(Krb5i)	в
<u> 1</u>	Permissions	Kerberos v5 authentication and privacy(Krb5p)	
en_wind	Management Properties	□ No server authentication	■ 74.8 G
	Quota	✓ No server authentication (AUTH SYS)	390 GE
•••••	Confirmation	✓ Fnable unmanned user access	
	Results	Allow unmapped user access by UID/GID	
READI		Allow anonymous access	
			>

Enter the WinDocks host machine name that will be provided access to the file share. Note the permissions drop down!

5	È.	New Share	Wizard 📃 🗖 🗙
Recycle	Specify the share	permissions	
	Select Profile Share Location	The server evaluates the share per permissions on a file share are dep and the NTFS permission entries.	Manage Manage Add Permissions
windo	Share Name	Name	
	Authentication		Grant permissions to access the NFS share to a host, client group, or netgroup.
	Share Permissions		Host:
1	Permissions		Support1
en_wind	Management Properties		Netgroup:
	Quota		- J
			Client group:
READI			O All Machines
			Language encoding: Share permissions:
			ANSI 🔹 No Access 👻
			Allow root access (not recommended)
		Add Edit	Add Cancel
		[< Previous Next > Create Cancel rver Resource N installed.



Review permissions and choose either Full Control, or Read access as needed.

6	a	New Share W	/izard		– – X	
Recycle	Specify permissio	ns to control access				Manana
windo	Select Profile Share Location Share Name	Permissions to access the files on a permissions, and, optionally, a centr	share are set usi al access policy.	ing a combination of folder perm	issions, share	Manage
en_wind READI	Authentication Share Permissions Permissions Management Properties Quota Confirmation Results	Folder permissions: Type Principal Allow CREATOR OWNER Allow BUILTIN\Administrator Allow NT AUTHORITY\SYSTE Allow BUILTIN\Administrator Customize permissions	Access Special 's Full Contr Full Contr Full Contr s Full Contr	Applies To Subfolders and files only Subfolders and files only This folder, subfolders, and file This folder, subfolders, and file This folder only	¹⁵	B ■ 74.8 GB □ 390 GB

The Share setup also allows for varied types and files.

	line (New Share Wizard	
Recycle	Specify folder ma	anagement properties	— — X
windo	Select Profile Share Location Share Name Authentication Share Permissions Permissions Management Properties Quota Confirmation Results	The Folder Usage property specifies the purpose of the folder and the type of files stored in it, and is used by data management policies such as classification rules. Select the Folder Usage value for this folder: User Files Group Files Application Files Backup and Archival Files	Manage Tools View Help TASKS B 74.8 GB Used Space 390 GB Free Space

	Ē.	New Sł	nare Wizard		□ X	
Recycle	View results					
		The share was successf	fully created.			Manage
		Task	Progress	Status	ר	
windo		Create NFS share	5	Completed		
	Authentication	Set NFS permissions		Completed		
		Set folder usage		Completed		В
- C					J	
en_wind						📕 74.8 GB
						390 GB
	Results					
READI						



Now, open File Explorer and navigate to the share created, right-click and select Properties. Select the "Share" tab, select "share" and enable permissions for Everyone. Remember to click on "Apply."

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On the same share select the "Security" tab, and confirm appropriate user rights on the files. No changes should be needed.

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File Home Share View			~ 😮		
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In a final step, select the "NFS Sharing" tab, which summarizes the share setup. The only machine provided access to our new Share is the Support1 machine users. We now have a secure method for supporting File Shares for a WinDocks host.

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Setup a Workgroup based file share

The following configures a shared folder on a private network to support Anonymous access. Select folder properties, *Sharing* tab and click on Advanced Sharing. Select "Share this folder, and click on Permissions.

Share Properties	Advanced Sharing
General Sharing Security Customize Network File and Folder Sharing Share Not Shared Not Shared Retwork Path: Not Shared R	Share this folder Settings Share name: Share Add Remove Limit the number of simultaneous users to: 20 Comments:
Password Protection People must have a user account and password for this computer to access shared folders. To change this setting, use the <u>Network and Sharing Center</u> . OK Cencel Apply	Permissions Caching OK Cancel Apply



Everyone should be listed, add *Guest* and *ANONYMOUS LOGON* and give them Read or Full Access.

	Permissio	ns for Share	×
Share Permissio	ns		
Group or user	names:		
Severyone			
ANONYI Cust (D	NOUS LOGON		
Guest (D	RIFTER (GUESE)		
		Add	Bemove
Permissions for	r Guest	Allow	Deny
Permissions fo Full Control	r Guest	Allow	Deny
Permissions fo Full Control Change	r Guest	Allow	Deny
Permissions fo Full Control Change Read	r Guest	Allow	Deny
Permissions fo Full Control Change Read	r Guest	Allow	Deny
Permissions fo Full Control Change Read	r Guest	Allow	Deny
Permissions fo Full Control Change Read	r Guest	Allow	Deny
Permissions fo Full Control Change Read	r Guest	Allow	Deny
<u>Permissions fo</u> Full Control Change Read	r Guest	Allow	Deny

Open *Group Policy Editor* (Windows key +R, type gpedit.msc and hit enter). Navigate to Computer Configuration --- Windows Settings --- Security Options.





Make the following changes:

- Acounts: Guest account status change to Enabled
- Network access: Let Everyone permissions apply to anonymous users change to Enabled
- Network access: Restrict anonymous access to Named Pipes and Shares change to Disabled
- Network access: Shares that can be accessed anonymously enter the name of the share you created in the text field

Network access: Shares that can be accessed anon $\ensuremath{\stackrel{?}{\sim}}$	×
Local Policy Setting Explain	
Network access: Shares that can be accessed anonymously	
Share	^
	~
OK Cancel A	pply

When completed, the **\\<MachineName>\Share** will support the anonymous access to files that can be used to support Windocks database cloning.