

# ZDriveTemp

Zdrivetemp has been created to allow a folder structure to be used to restrict access to areas based off group and branch. For example, the IT Team have access to an IT folder under business services but can't access any other group folder or any other branch under Business\_services.

Firstly, a drive was created on the windows file server pbr-fs-b1 and the share was made to match the following permissions and inheritance disabled:

Owner: **Administrators (PBR-FS-B1\Administrators)** [Change](#)

Permissions   Share   Auditing   Effective Access

For additional information, double-click a permission entry. To modify a permission entry, select the entry and click Edit (if available).

Permission entries:

Type	Principal	Access	Inherited from	Applies to
Allow	<b>CREATOR OWNER</b>	Full control	None	Subfolders and files only
Allow	<b>SYSTEM</b>	Full control	None	This folder, subfolders and
Allow	<b>Administrators (PBR-FS-B1\Administrators)</b>	Full control	None	This folder, subfolders and

Once set the server share needed to be set so access-based enumeration is disabled. This will allow for traverse permission to be assigned to the server share:

## zdrivetemp

Show All

- General +
- Permissions +
- Settings -
- Management Prop... +

## Settings

 Enable access-based enumeration

Access-based enumeration displays only the files and folders that a user has permissions to access. If a user does not have Read (or equivalent) permissions for a folder, Windows hides the folder from the user's view.

 Allow caching of share

Caching makes the contents of the share available to offline users. If the BranchCache for Network Files role service is installed, you can enable BranchCache on the share.

 Enable BranchCache on the file share

BranchCache enables computers in a branch office to cache files downloaded from this share, and then allows the files to be securely available to other computers in the branch.

 Encrypt data access

When enabled, remote file access to this share will be encrypted. This secures the data against unauthorized access while the data is transferred to and from the share. If this box is checked and grayed out, an administrator has turned on encryption for the entire server.

OK

Cancel

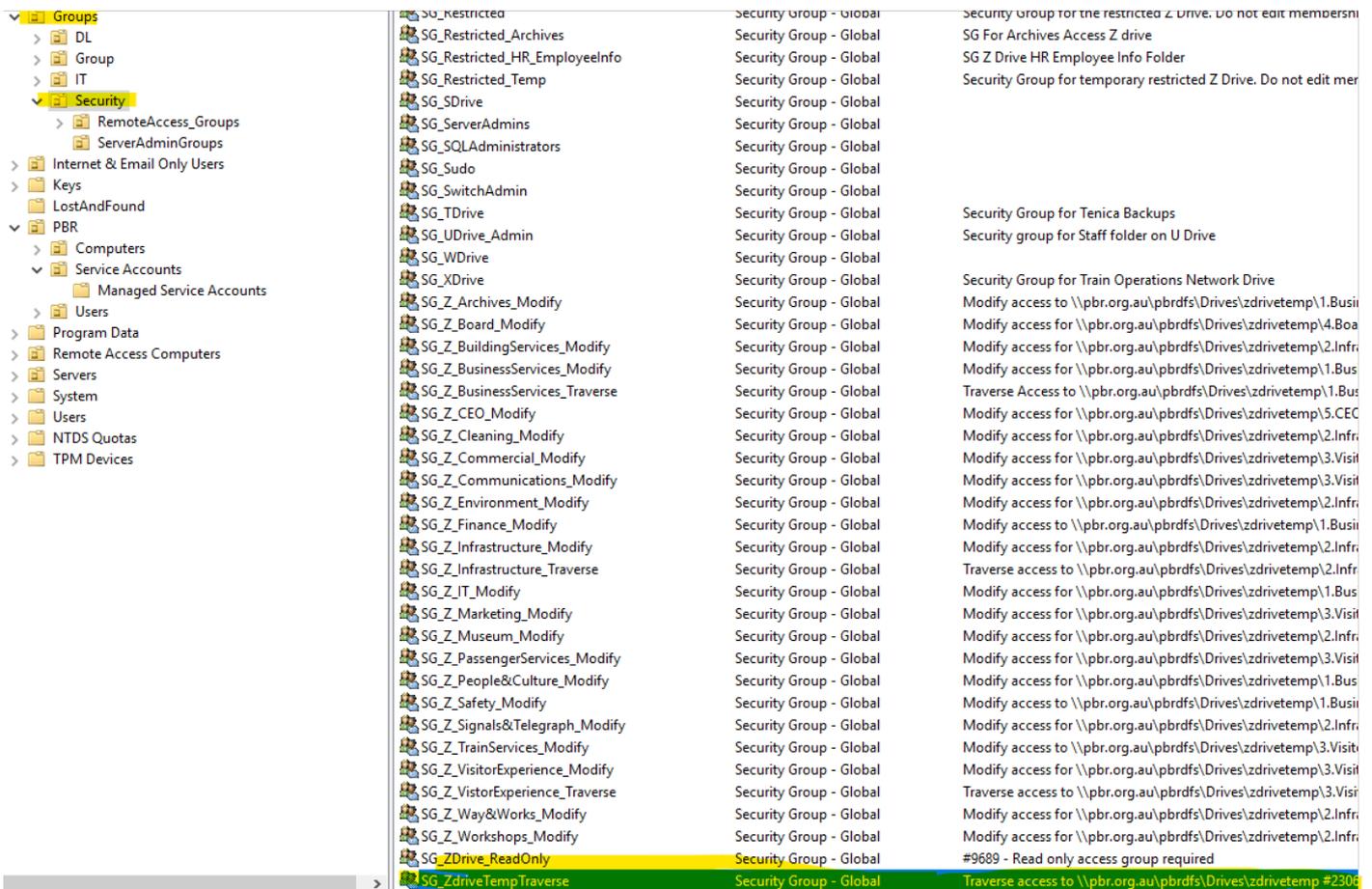
Apply

Once the drive was created a DFS path was created in DFS management pointing to the share on pbr-fs-b1:

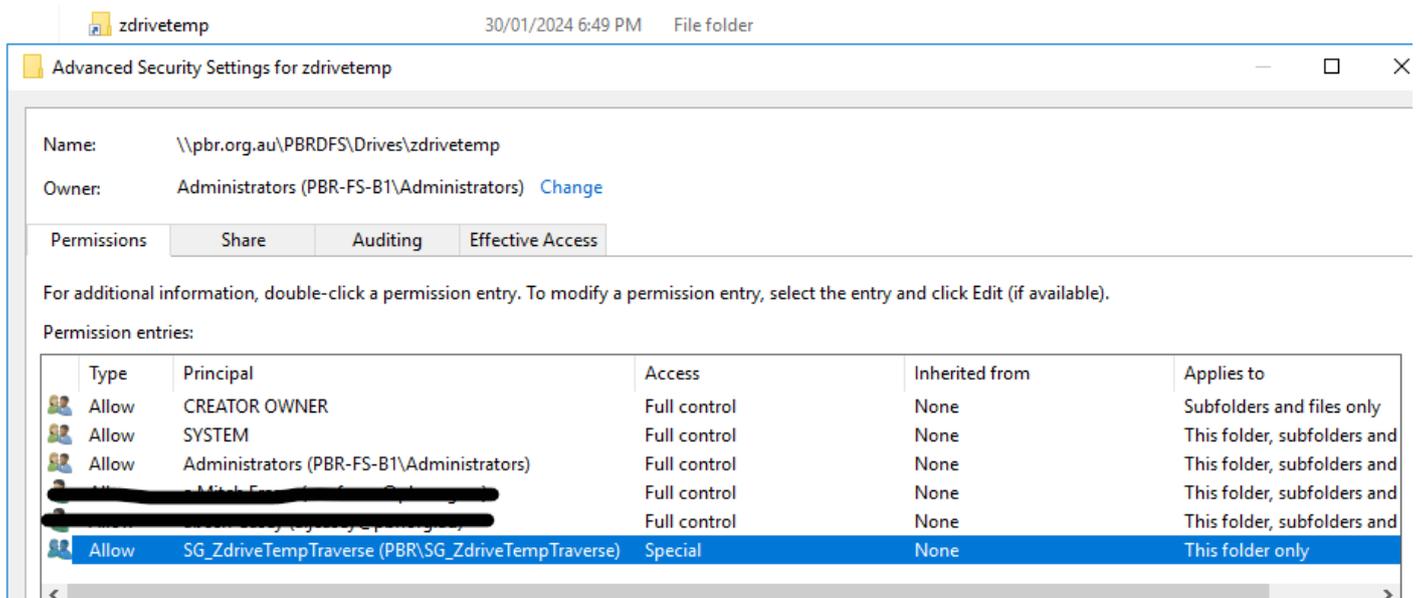
The screenshot shows the DFS Management console. On the left, the 'Namespaces' tree is expanded to show a folder target named 'zdrivetemp' under the path '\\pbr.org.au\PBRDFS\Drives'. The 'zdrivetemp' folder target is highlighted in yellow. On the right, the 'Folder Targets' tab is active, showing a table with one entry:

Type	Referral Status	Site	Path
Folder Target	Enabled	Pelgrave	\\PBR-FS-b1\zdrivetemp

Go to AD and create a security group for traverse access to the zdrivetemp:



Once the DFS path has been created and the AD security group created for Traverse access, go to the Zdrivetemp and make sure the below groups are set. For traverse NTFS permissions these AD groups will always be set to apply to "This folder only" and have the same 4 permissions selected (see second and third image below).



Principal: **SG\_ZdriveTempTraverse (PBR\SG\_ZdriveTempTraverse)** [Select a principal](#)

Type: **Allow**

Applies to: **This folder only**

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Basic permissions: [Show advanced permissions](#)

- Full control
- Modify
- Read & execute
- List folder contents
- Read
- Write
- Special permissions

Only apply these permissions to objects and/or containers within this container Clear all

Permission Entry for zdrivetemp

Principal: **SG\_ZdriveTempTraverse (PBR\SG\_ZdriveTempTraverse)** [Select a principal](#)

Type: **Allow**

Applies to: **This folder only**

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Advanced permissions: [Show basic permissions](#)

- Full control
- Traverse folder / execute file
- List folder / read data
- Read attributes
- Read extended attributes
- Create files / write data
- Create folders / append data
- Write attributes
- Write extended attributes
- Delete subfolders and files
- Delete
- Read permissions
- Change permissions
- Take ownership

Only apply these permissions to objects and/or containers within this container Clear all

Create other folders under the zdrive temp as show below:

Network > pbr.org.au > PBRDFS > Drives > zdrivetemp

Name	Date modified	Type	Siz
1.Business_Services	29/01/2024 4:45 PM	File folder	
2.Infrastructure	29/01/2024 4:50 PM	File folder	
3.Visitor_Experience	29/01/2024 4:50 PM	File folder	
4.Board	29/01/2024 4:49 PM	File folder	
5.CEO	24/01/2024 2:58 PM	File folder	
Data_to_be_copied	29/01/2024 5:26 PM	File folder	

For all folders apart from 4.Board, 5.CEO and Data\_to\_be\_Copied, there will need to have 2 AD groups assigned in the NTFS permissions. One Traverse group (allows group members to view folders) and one Modify group. Create these groups as presented below in AD:

SG_Z_Archives_Modify	Security Group - Global	Modify access to \\pbr.org.au\pbrdfs\Drives\zdrivetemp\1.Business_Services\Archives
SG_Z_Board_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\4.Board
SG_Z_BuildingServices_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\2.Infrastructure\Building_Services
SG_Z_BusinessServices_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\1.Business_Services
SG_Z_BusinessServices_Traverse	Security Group - Global	Traverse Access to \\pbr.org.au\pbrdfs\Drives\zdrivetemp\1.Business_Services
SG_Z_CEO_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\5.CEO
SG_Z_Cleaning_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\2.Infrastructure\Cleaning
SG_Z_Commercial_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\3.Visitor_Experience\Commercial
SG_Z_Communications_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\3.Visitor_Experience\Communications
SG_Z_Environment_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\2.Infrastructure\Environment
SG_Z_Finance_Modify	Security Group - Global	Modify access to \\pbr.org.au\pbrdfs\Drives\zdrivetemp\1.Business_Services\Finance
SG_Z_Infrastructure_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\2.Infrastructure
SG_Z_Infrastructure_Traverse	Security Group - Global	Traverse access to \\pbr.org.au\pbrdfs\Drives\zdrivetemp\2.Infrastructure
SG_Z_IT_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\1.Business_Services\IT
SG_Z_Marketing_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\3.Visitor_Experience\Marketing
SG_Z_Museum_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\2.Infrastructure\Museum
SG_Z_PassengerServices_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\3.Visitor_Experience\Passenger_Services
SG_Z_People&Culture_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\1.Business_Services\People&Culture
SG_Z_Safety_Modify	Security Group - Global	Modify access to \\pbr.org.au\pbrdfs\Drives\zdrivetemp\1.Business_Services\Safety
SG_Z_Signals&Telegraph_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\2.Infrastructure\Signals&Telegraph
SG_Z_TrainServices_Modify	Security Group - Global	Modify access to \\pbr.org.au\pbrdfs\Drives\zdrivetemp\3.Visitor_Experience\Train_Services
SG_Z_VisitorExperience_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\3.Visitor_Experience
SG_Z_VisitorExperience_Traverse	Security Group - Global	Traverse access to \\pbr.org.au\pbrdfs\Drives\zdrivetemp\3.Visitor_Experience
SG_Z_Way&Works_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\2.Infrastructure\Way&Works
SG_Z_Workshops_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\2.Infrastructure\Workshops
SG_ZDriveTempReadOnly	Security Group - Global	#9689 - Read only access group required
SG_ZDriveTempTraverse	Security Group - Global	Traverse access to \\pbr.org.au\pbrdfs\Drives\zdrivetemp #2306 - temp traverse group created to allow read only to the top level folders on zdrive temp

## AD groups for ZdriveTemp access

All the groups below are used to permissions user to the Z drive

SG_Z_Archives_Modify	Security Group - Global	Modify access to \\pbr.org.au\pbrdfs\Drives\zdrivetemp\1.Business_Services\Archives
SG_Z_Board_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\4.Board
SG_Z_BuildingServices_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\2.Infrastructure\Building_Services
SG_Z_BusinessServices_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\1.Business_Services
SG_Z_BusinessServices_Traverse	Security Group - Global	Traverse Access to \\pbr.org.au\pbrdfs\Drives\zdrivetemp\1.Business_Services
SG_Z_CEO_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\5.CEO
SG_Z_Cleaning_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\2.Infrastructure\Cleaning
SG_Z_Commercial_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\3.Visitor_Experience\Commercial
SG_Z_Communications_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\3.Visitor_Experience\Communications
SG_Z_Environment_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\2.Infrastructure\Environment
SG_Z_Finance_Modify	Security Group - Global	Modify access to \\pbr.org.au\pbrdfs\Drives\zdrivetemp\1.Business_Services\Finance
SG_Z_Infrastructure_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\2.Infrastructure
SG_Z_Infrastructure_Traverse	Security Group - Global	Traverse access to \\pbr.org.au\pbrdfs\Drives\zdrivetemp\2.Infrastructure
SG_Z_IT_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\1.Business_Services\IT
SG_Z_Marketing_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\3.Visitor_Experience\Marketing
SG_Z_Museum_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\2.Infrastructure\Museum
SG_Z_PassengerServices_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\3.Visitor_Experience\Passenger_Services
SG_Z_People&Culture_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\1.Business_Services\People&Culture
SG_Z_Safety_Modify	Security Group - Global	Modify access to \\pbr.org.au\pbrdfs\Drives\zdrivetemp\1.Business_Services\Safety
SG_Z_Signals&Telegraph_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\2.Infrastructure\Signals&Telegraph
SG_Z_TrainServices_Modify	Security Group - Global	Modify access to \\pbr.org.au\pbrdfs\Drives\zdrivetemp\3.Visitor_Experience\Train_Services
SG_Z_VisitorExperience_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\3.Visitor_Experience
SG_Z_VisitorExperience_Traverse	Security Group - Global	Traverse access to \\pbr.org.au\pbrdfs\Drives\zdrivetemp\3.Visitor_Experience
SG_Z_Way&Works_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\2.Infrastructure\Way&Works
SG_Z_Workshops_Modify	Security Group - Global	Modify access for \\pbr.org.au\pbrdfs\Drives\zdrivetemp\2.Infrastructure\Workshops
SG_ZdriveTempTraverse	Security Group - Global	Traverse access to \\pbr.org.au\pbrdfs\Drives\zdrivetemp #2306 - temp traverse group created to allow read only to the top level folders on zdrive temp

Revision #3

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