



FILE SHARE

1. Log in to Azure Portal.
2. Navigate to Storage Account then open your storage account.
3. Now under data storage pane, go to file shares.

appstorage2711

Storage account

Overview

Activity log

Tags

Diagnose and solve problems

Access Control (IAM)

Data migration

Events

Storage browser

Storage Mover

Data storage

Containers

File shares

Queues

Tables

Security + networking

Networking

Front Door and CDN

Access keys

Shared access signature

Encryption

Microsoft Defender for Cloud

Data management

Redundancy

Upload Open in Explorer Delete Move Refresh Open in mobile CLI / PS Feedback

Resource group (move) : app-grp

Location : centralindia

Subscription (move) : Free Trial

Subscription ID : 9acac69d-f5ab-4d7e-9feb-ac0e3ea4372f

Disk state : Available

Tags (edit) : Add tags

Properties Monitoring Capabilities (7) Recommendations (0) Tutorials Tools + SDKs

Blob service

Hierarchical namespace	Disabled
Default access tier	Hot
Blob anonymous access	Disabled
Blob soft delete	Enabled (7 days)
Container soft delete	Enabled (7 days)
Versioning	Disabled
Change feed	Disabled
NFS v3	Disabled
Allow cross-tenant replication	Disabled

File service

Large file share	Disabled
Identity-based access	Not configured
Default share-level permissions	Disabled
Soft delete	Enabled (7 days)
Share capacity	5 TiB

Security

Require secure transfer for REST API operations	Enabled
Storage account key access	Enabled
Minimum TLS version	Version 1.2
Infrastructure encryption	Disabled

Networking

Allow access from	All networks
Number of private endpoint connections	0
Network routing	Microsoft network routing
Access for trusted Microsoft services	Yes
Endpoint type	Standard

4. Now create your file share.

+ File share Refresh

File share settings

Identity-based access: Not configured Default share-level permissions: Disabled Soft delete: 7 days Maximum capacity: 5 TiB Security: Maximum compatibility

Search file shares by prefix (case-sensitive)

Show deleted shares

Name	Modified	Tier	Quota
You don't have any file shares yet. Click '+ File share' to get started.			

5. Hit on create.

New file share

Basics Backup Review + create

Name *

shareusr

Tier *

Transaction optimized

Performance

Maximum IO/s ⓘ 1000

Maximum capacity 5 TiB

Large file shares Disabled

💡 You can improve performance and maximum share capacity by enabling large file shares for this storage account. [Learn more](#)

ⓘ To use the SMB protocol with this share, check if you can communicate over port 445. These scripts for [Windows clients](#) and [Linux clients](#) can help. Learn how to [circumvent port 445 issues](#).

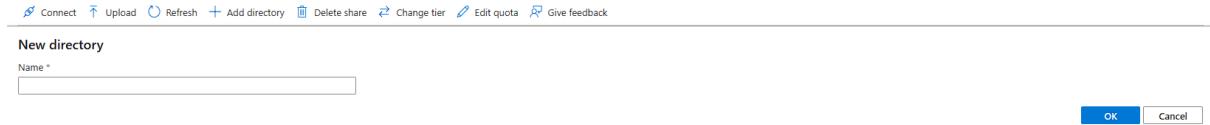
6. This is how your file share would look like.

The screenshot shows the Azure Storage File Share 'shareusr' overview page. The top navigation bar includes 'Search', 'Connect', 'Upload', 'Refresh', 'Add directory', 'Delete share', 'Change tier', 'Edit quota', and 'Give feedback'. The left sidebar has sections for 'Overview', 'Diagnose and solve problems', 'Access Control (IAM)', 'Browse', 'Operations', 'Snapshots', and 'Backup'. The main content area displays the following details:

Setting	Value
Storage account	appstorage2711
Resource group (move)	app-grp
Location	Central India
Subscription (move)	Free Trial
Subscription ID	9acac69d-f5ab-4d7e-9feb-ac0e3ea4372f
Share URL	https://appstorage2711.file.core.windows.net/shareus
Redundancy	Locally-redundant storage (LRS)
Configuration modified	10/1/2024, 3:25:35 pm

Below these details are sections for 'Properties', 'Capabilities (2)', and 'Tutorials'. Under 'Properties', there are sections for 'Size' (Maximum capacity: 5 TiB, Used capacity: 0 B, Tier: Transaction optimized), 'Performance' (Maximum IO/s: 1000, Ingress rate: 60 MiB / s, Egress rate: 60 MiB / s), and 'Backup' (Snapshots: 0 snapshots, Last modified: -, Backup: Not configured). To the right, there are sections for 'Feature status' (Soft delete: 7 days, Large file shares: Disabled), 'Identity-based access' (Directory service: Not configured, Domain: -), and 'SMB protocol settings' (Security profile: Maximum compatibility, SMB protocol versions: -, SMB channel encryption: -, Authentication mechanisms: -, Kerberos ticket encryption: -).

7. Now if you see you bunch of option at the top, so if you just navigate to Add directory and create a new directory of yours.



8. After creating directory, navigate to browse.
9. There you will find your new directory there.
10. And if you click on it a single time you will move inside it.

Name	Type	Size	...
scripts	Directory		...

11. In here you need to upload some random files.
12. There you can see all your random files.

Name	Type	Size	...
[...]			...
Dockerfile	File	113 B	...
IIS.ps1	File	186 B	...
install_web.sh	File	65 B	...
main.py	File	1.61 KiB	...
scriptyml	File	58 B	...

13. Now if click on of the file you will see its URL.
14. But if you take the URL and go on to a new tab, it's giving you some error. And that's because this service is different from the blob service. With the blob service, every file is uploaded as an object. And each object gets its own unique URL.
15. But this is a file share. You have to connect onto the file share.
16. So, a user can now connect onto the file share from their local machine, or even a VM can connect onto the file share.

NAME

Dockerfile

URL

<https://appstorage2711.file.core.windows.net/shareus/scripts/Dockerfile>

```

<Error>
<Code>InvalidHeaderValue</Code>
<Message>The value for one of the HTTP headers is not in the correct format. RequestId:1d43c816-001a-0001-0fb0-43a101000000 Time:2024-01-10T10:31:48.5200730Z</Message>
<HeaderName>x-ms-version</HeaderName>
<HeaderValue>/</HeaderValue>
</Error>

```

17. So, now if you go to the overview of the file share.

18. You will see this connect option, click on it.



19. So, you can connect it with either a Windows, Linux or even macOS.

20. Now if you will just click on the Show script option.

Windows Linux macOS

To connect to this Azure file share from Windows, choose from the following authentication methods and run the PowerShell commands from a normal (not elevated) PowerShell terminal:

Drive letter

Z

Authentication method

- Active Directory or Microsoft Entra
 Storage account key

i Connecting to a share using the storage account key is only appropriate for admin access. Mounting the Azure file share with the Active Directory or Microsoft Entra identity of the user is preferred. [Learn more](#)

Show Script

This script will check to see if this storage account is accessible via TCP port 445, which is the port SMB uses. If port 445 is available, your Azure file share will be persistently mounted. Your organization or internet service provider (ISP) may block port 445, however you may use Azure Point-to-Site (P2S) VPN, Azure Site-to-Site (S2S) VPN, or ExpressRoute to tunnel SMB traffic to your Azure file share over a different port.

Note: The script will only work on Windows Server 2012 and above.

[Learn how to circumvent the port 445 problem \(VPN\)](#)

21. You can see your script here in place.

[Hide Script](#)

```
$connectTestResult = Test-NetConnection -ComputerName appstorage2711.file.core.windows.net -Port 445
if ($connectTestResult.TcpTestSucceeded) {
    # Save the password so the drive will persist on reboot
    cmd.exe /C "cmdkey /add:'appstorage2711.file.core.windows.net' /user:'localhost\appstorage2711' /pass:'$soWhkzLucn2yENiZFYAKzu7cTEYPwZtokhGn+kk8gHSDCHigPd1r7jcv+l/X9xyRleZqHRbb2QB+Ast3L8MOw=='"
    # Mount the drive
    New-PSDrive -Name Z -PSProvider FileSystem -Root "\\appstorage2711.file.core.windows.net\shareusr" -Persist
} else {
    Write-Error -Message "Unable to reach the Azure storage account via port 445. Check to make sure your organization or ISP is not blocking port 445, or use Azure P2S VPN, Azure S2S VPN, or Express Route to tunnel SMB traffic over a different port."
}
```



This script will check to see if this storage account is accessible via TCP port 445, which is the port SMB uses. If port 445 is available, your Azure file share will be persistently mounted. Your organization or internet service provider (ISP) may block port 445, however you may use Azure [Point-to-Site \(P2S\) VPN](#), Azure [Site-to-Site \(S2S\) VPN](#), or [ExpressRoute](#) to tunnel SMB traffic to your Azure file share over a different port.

Note: The script will only work on Windows Server 2012 and above.

[Learn how to circumvent the port 445 problem \(VPN\)](#)

22. Now if you copy this script and **open PowerShell in your local machine as an administrator and paste this script onto the PowerShell.**
23. The first thing is going to do is it's going to check whether you can connect. To the storage account.
24. Because you could be having a firewall, especially if you're connecting from a company laptop that might not allow connections on Port 445 onto the Azure storage account, onto the file share service.

```
Administrator: Windows PowerShell
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Windows\system32> $connectTestResult = Test-NetConnection -ComputerName appstorage2711.file.core.windows.net -Port 445
PS C:\Windows\system32> if ($connectTestResult.TcpTestSucceeded) {
>>>     # Save the password so the drive will persist on reboot
>>>     cmd.exe /C "cmdkey /add:'appstorage2711.file.core.windows.net' /user:'localhost\appstorage2711' /pass:'$fsolWhkzLuch2yENiZFYAKzu7cTEYpWZtokhGn+kk8gHSDCHigPdr7jcv+l/X9xyRIeZqHRbB2QB+A5t3L8M0w=='"
>>>     # Mount the drive
>>>     New-PSDrive -Name Z -PSProvider FileSystem -Root "\\\appstorage2711.file.core.windows.net\shareusr" -Persist
>>> } else {
>>>     Write-Error -Message "Unable to reach the Azure storage account via port 445. Check to make sure your organization or ISP is not blocking port 445, or use Azure P2S VPN, Azure S2S VPN, or Express Route to tunnel SMB traffic over a different port."
>>> }
```

25. You can see that it been connected.

26. Now just hit enter on your keyboard. Now it is going map the Z drive onto the file share.

```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows
PS C:\Windows\system32> $connectTestResult = Test-NetConnection -ComputerName appstorage2711.file.core.windows.net -Port 445
PS C:\Windows\system32> if ($connectTestResult.TcpTestSucceeded) {
>>>     # Save the password so the drive will persist on reboot
>>>     cmd.exe /C "cmdkey /add:'appstorage2711.file.core.windows.net' /user:'localhost\appstorage2711' /pass:'$fsolWhkzLuch2yENiZFYAKzu7cTEYpWZtokhGn+kk8gHSDCHigPdr7jcv+l/X9xyRIeZqHRbB2QB+A5t3L8M0w=='"
>>>     # Mount the drive
>>>     New-PSDrive -Name Z -PSProvider FileSystem -Root "\\\appstorage2711.file.core.windows.net\shareusr" -Persist
>>> } else {
>>>     Write-Error -Message "Unable to reach the Azure storage account via port 445. Check to make sure your organization or ISP is not blocking port 445, or use Azure P2S VPN, Azure S2S VPN, or Express Route to tunnel SMB traffic over a different port."
>>> }

CMDKEY: Credential added successfully.

Name      Used (GB)  Free (GB) Provider   Root                               CurrentLocation
----      -----  -----  -----   -----
Z          0.00     5120.00 FileSystem  \\\appstorage2711.file.core.windows.net\shareusr

PS C:\Windows\system32>
```

27. Now go into the Z drive, then do a directory mapping on it and you can see your scripts folder right here.

28. Now you will go into your scripts folder and do a directory mapping on it.

29. You will all your files that you uploaded onto the file share.

```

PS C:\Windows\system32> z:
PS Z:\> dir

    Directory: Z:\

Mode                LastWriteTime         Length Name
----                -----          ---- - 
d-----        10-01-2024      15:32           scripts

PS Z:\> cd scripts
PS Z:\scripts> dir

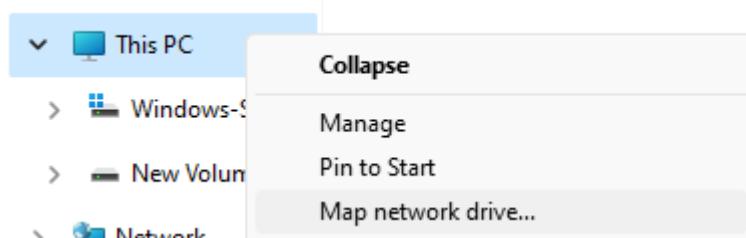
    Directory: Z:\scripts

Mode                LastWriteTime         Length Name
----                -----          ---- - 
-a---        10-01-2024      15:53          113 Dockerfile
-a---        10-01-2024      15:53          186 IIS.ps1
-a---        10-01-2024      15:53           65 install_web.sh
-a---        10-01-2024      15:53        1650 main.py
-a---        10-01-2024      15:53           58 script.yml

PS Z:\scripts> -

```

30. Now, even from your Windows Explorer, you should be able to actually map this network drive or the file share.
31. Go to your windows explorer and then right click on This PC, then select Map network drive.



32. Now you have to this link from your script on the Portal.

```
$connectTestResult = Test-NetConnection -ComputerName appstorage2711.file.core.windows.net -Port 445
if ($connectTestResult.TcpTestSucceeded) {
    # Save the password so the drive will persist on reboot
    cmd.exe /C "cmdkey /add:'appstorage2711.file.core.windows.net'"
    /user:'localhost\appstorage2711'
    /pass:'FsoWhkzLucn2yENiZFYAKzu7cTEYPwZtokhGn+kk8gHSDCHigPd1r7jcv
+I/X9xyRleZqHRbB2QB+ASt3L8MOw='"
    # Mount the drive
    New-PSDrive -Name Z -PSProvider FileSystem -Root
    "\\appstorage2711.file.core.windows.net\shareusr" -Persist
} else {
    Write-Error -Message "Unable to reach the Azure storage account via port 445. Check to make sure your organization or ISP is not blocking port 445, or use Azure P2S VPN, Azure S2S VPN, or Express Route to tunnel SMB traffic over a different port."
}
```

33. Now paste it here in the mapping drive.

34. Select connection using different credentials. Then click on finish.



What network folder would you like to map?

Specify the drive letter for the connection and the folder that you want to connect to:

Drive: Y:

Folder: appstorage2711.file.core.windows.net\shareusr

[Browse...](#)

Example: \\server\share

Reconnect at sign-in

Connect using different credentials

[Connect to a Web site that you can use to store your documents and pictures.](#)

[Finish](#)

[Cancel](#)

35. You will see that is asking for a password to connect.

Enter network credentials

Enter your credentials to connect to:
appstorage2711.file.core.windows.net

localhost\appstorage2711

Password

Remember my credentials

[More choices](#)

[OK](#)

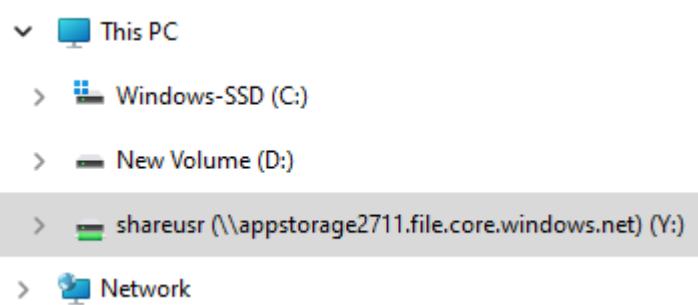
[Cancel](#)

36. Go back to the portal and copy the password from there.

37. Then paste it in the network credentials.

```
$connectTestResult = Test-NetConnection -ComputerName  
appstorage2711.file.core.windows.net -Port 445  
if ($connectTestResult.TcpTestSucceeded) {  
    # Save the password so the drive will persist on reboot  
    cmd.exe /C "cmdkey /add:"appstorage2711.file.core.windows.net"  
    /user:"localhost\appstorage2711"  
    /pass:"FsoWhkzLucn2yENiZFYAKzu7cTEYPwZtokhGn+kk8gHSDCHigPd1r7jcv  
    +l/X9xyRleZqHRbB2QB+AST3L8M0w="
```

38. Now here you can see your shareusr present in your local machine Windows Explorer.



39. There is the script folder.

Name	Date modified	Type
scripts	10-01-2024 15:32	File folder

40. And here are the files that you have uploaded onto your file share.

Name	Date modified	Type	Size
Dockerfile	10-01-2024 15:53	File	1 KB
IIS	10-01-2024 15:53	Windows PowerShell Script	1 KB
install_web	10-01-2024 15:53	SH Source File	1 KB
main	10-01-2024 15:53	Python File	2 KB
script	10-01-2024 15:53	Yaml Source File	1 KB

To disconnect it from your local machine, right click on the share and you will see a disconnect option.

