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## Servers & Tools:

Server	Purpose	Key Roles
DC01	Primary Domain Controller	DNS, Active Directory
DC02	Secondary Domain Controller	Replication backup
SAN-SERVER	Acts as our SAN storage appliance	Windows iSCSI Target Server
FS01	File Server	Stores company data on external SAN disk
BK01	Backup Server	Runs MSP360, backups go to Azure Storage

All the servers are connected to the domain ([cloudwithmilu.com](http://cloudwithmilu.com))

## SAN-SERVER

This will be our external SAN server, which will be our external hard disk for File Server.

### 1. Install Windows Feature

#### a. File and Storage Services

- i. iSCSI – Target Server
- ii. Create an iSCSI virtual Disk
  1. **FS01-Data.vhdx**
    - a. vhdx – acts like an actual hard drive or disk that will later be handed on to the File Server
  2. Select the size
  3. Create an **iSCSI Target** and name the target
  4. Select the **iqn** or get it from the **iSCSI Initiator**
  5. Create

The screenshot shows the Server Manager interface under File and Storage Services > iSCSI. The left navigation pane includes options like Servers, Volumes, Disks, Storage Pools, Shares, iSCSI (which is selected), and Work Folders. The main area displays two tables: 'iSCSI VIRTUAL DISKS' and 'iSCSI TARGETS'.

**iSCSI VIRTUAL DISKS**

Path	Status	Virtual Disk Status	Target Name	Target Status	Initiator ID	Size
▲ NIMBLE-HOST (1) C:\SCSIVirtualDisks\FS01_Data.vhdx.vhdx	Connected	fs01-target	Connected	IQN:qn.1991-05.com.microsoft:fs01.cloudwithnilu.com	115 GB	

Last refreshed on 11/16/2025 4:21:26 PM

**iSCSI TARGETS**

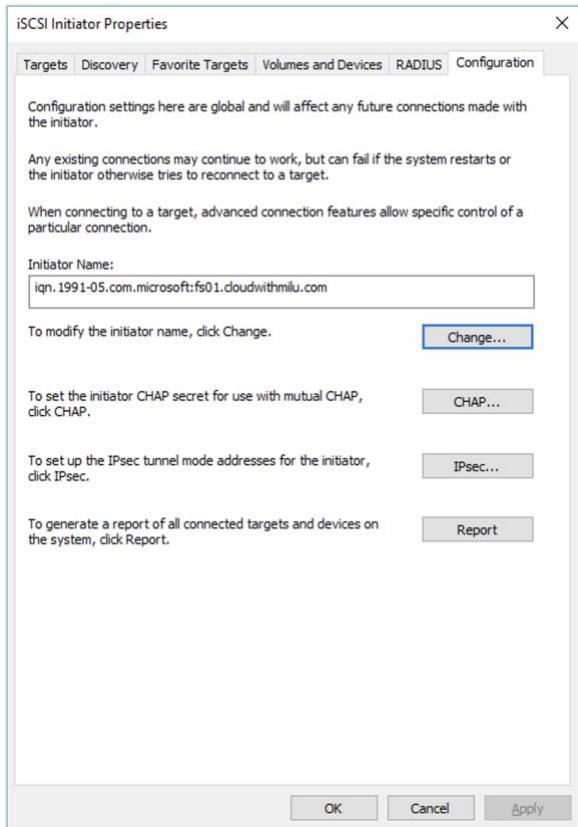
Name	Server Name	Target IQN	Target Status	Initiator ID	Last Logon	Idle Duration
fs01-target	NIMBLE-HOST	iqn.1991-05.com.microsoft:nimble-host-fs01-target-target	Connected	IQN:qn.1991-05.com.microsoft:fs01.cloudwithnilu.com	11/16/2025 3:27:14 PM	00:00:00

## FS01 – (File Server 01)

This will be our File Server, and it will request Storage from an external SAN.

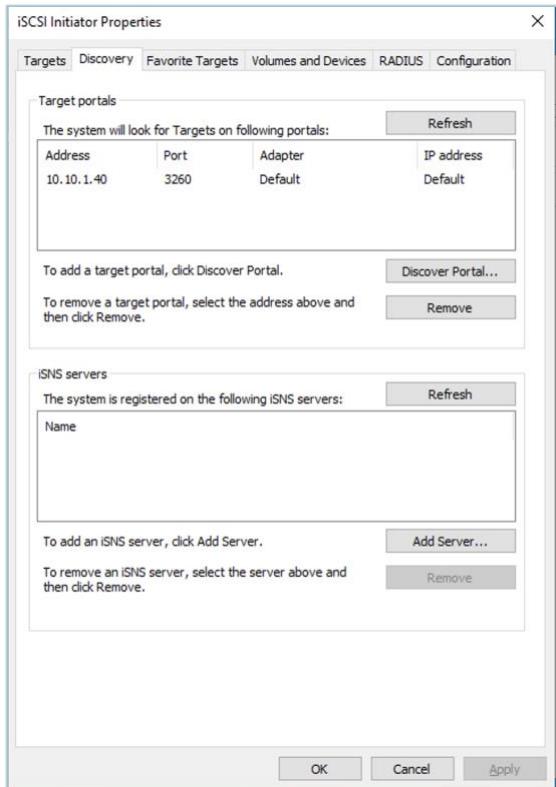
### 1. Configure iSCSI Initiator

- Open the **iSCSI Initiator**
- Get the **Initiator Name (iqn)** from the **Configuration Tab**
  - On SAN-SERVER – create iSCSI Target
    - Name : FS01- Target
    - Add initiator
      - Enter the **iqn** manually and create



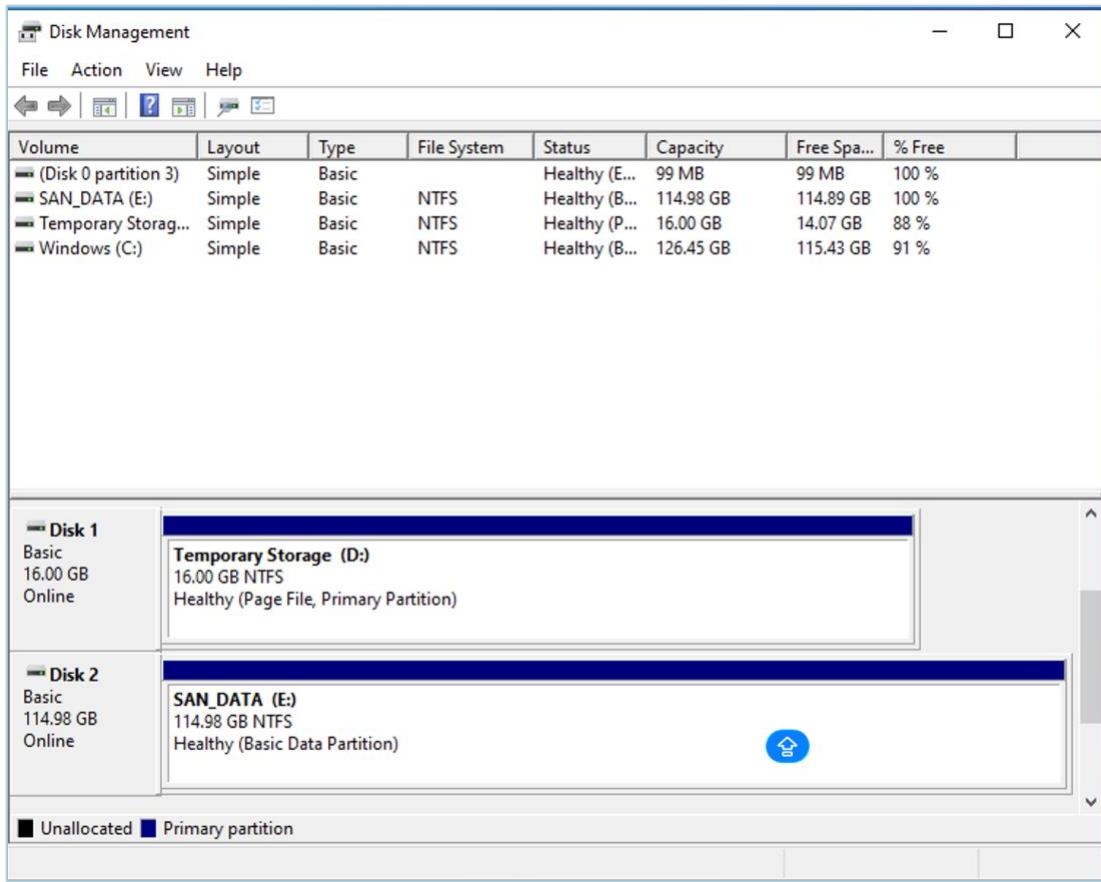
## b. Connect the SAN

- i. **Discovery Tab**
- ii. Add **Discover Portal** and Enter the **IP** of the **SAN-SERVER**
- iii. Go to **Targets tab**
  - a. click on **FS01-Target** and **Connect**

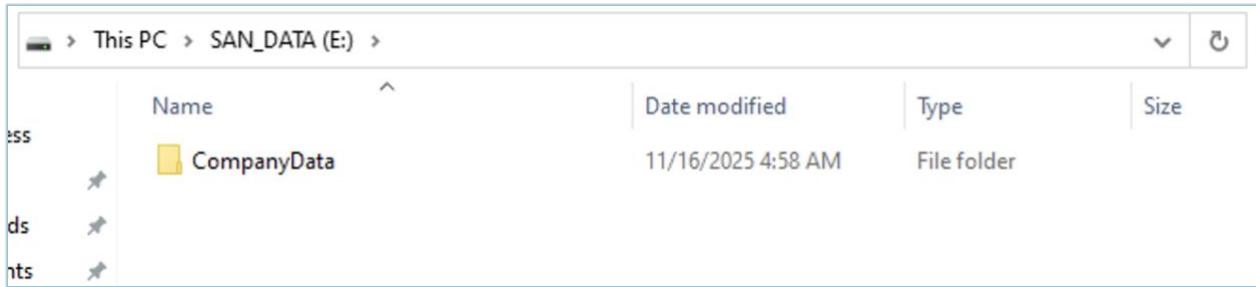


### c. Initialize and Format SAN Disk

- i. Open Disk Management.
  1. Discmgmt.msc
  2. Initialize disk (disk 2)
  3. Right click on Disk 2 → to create **New Simple Volume**
  4. Assign a letter (**E:**).
  5. Format NFTS
  6. Name the Disk.



Now, if you go to File Explorer, you will see an external Drive called **SAN\_DATA (E:)**.



# BK01 – (Backup Server 01)

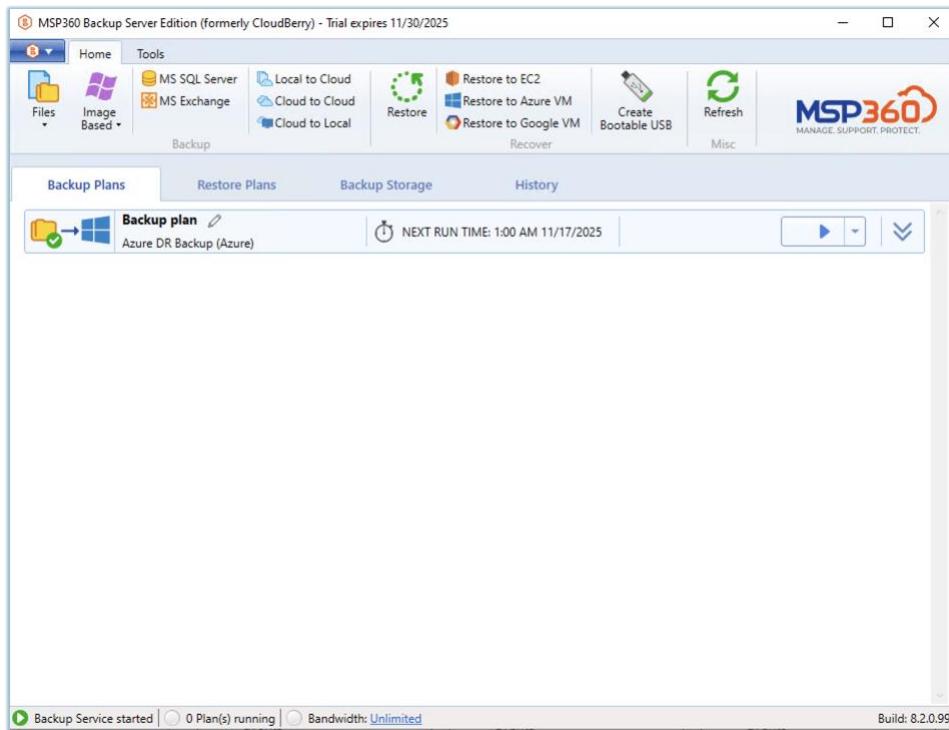
## 1. Installed MSP360

### a. Connected the Azure Storage Account

- i. **Backup Plans**
- ii. Storage Provider
- iii. Add Storage Account
- iv. Fill out the information
  1. Friendly name
  2. Storage account name
  3. Access Key
- v. Connect it

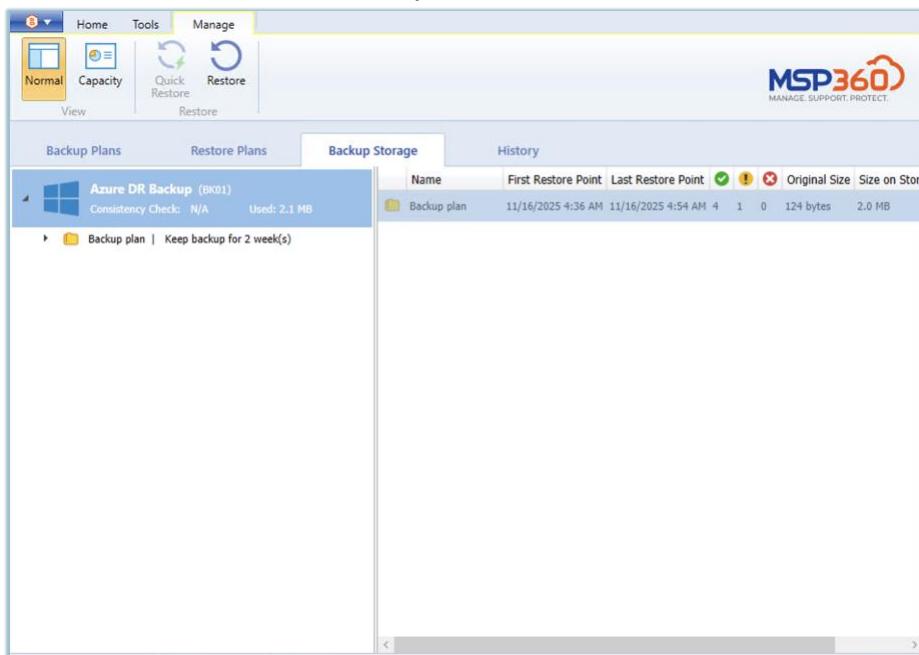
### b. Backup Plan

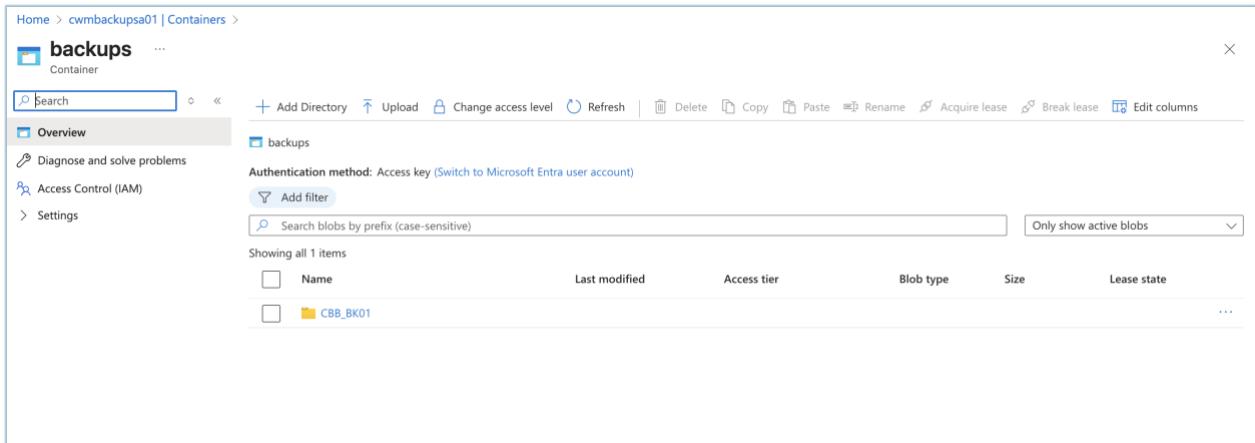
- i. Choose the **Storage Class**
- ii. Select the backup source (if not there, go to advanced and add a network shared drive)
- iii. Compression & Encryption
- iv. Schedule – when the backup should run
- v. Retention Policy – how long the backup should be kept in Azure
- vi. Notification – put your email to get notification of the backup status
- vii. Create



### c. Run a Test Backup

- i. Select the Backup Plan and **RUN**.
- ii. Check **Azure Storage Account → Containers** and verify the backup was completed.





## Disaster and Restore

### a. Restore Plan

- i. Select **Restore Plan**
- ii. **Restore**
- iii. Select the **Backup Storage**
- iv. Run Restore Once or make a Restore Plan
- v. Restore Source – which source the restore should occur
- vi. Destination – the location where file will be restored
- vii. Notification – to get notification of the status
- viii. **Finish**

You will get an email with the status, and the files will be restored if everything is OK.