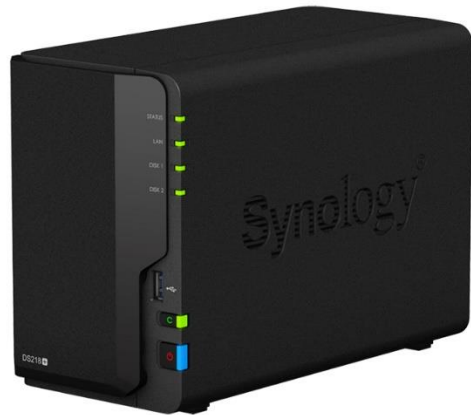


# *HƯỚNG DẪN GẮN NAS SINOLOGY VÀO DVR/NVR HIKVISION*

*Ver 01 - 28.12.20*



# ĐĂNG NHẬP VÀO NAS – VỚI TÀI KHOẢN CÓ QUYỀN TẠO THƯ MỤC

NASNAT



Stay signed in

Sign In

# VÀO CONTROL PANEL



Package Center



Control Panel

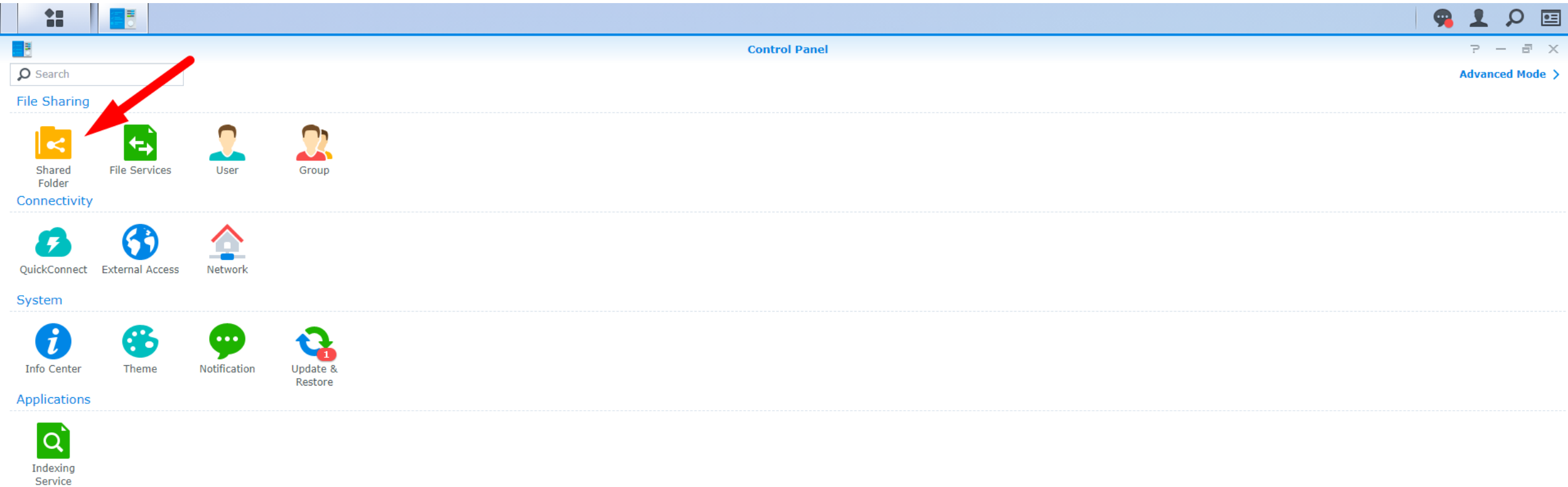


File Station



DSM Help

# VÀO MỤC SHARED FOLDER ĐỂ TẠO THƯ MỤC



# TẠO THƯ MỤC – 1

Control Panel

File Sharing

Shared Folder

File Services

User

Group

Domain/LDAP

Connectivity

QuickConnect

External Access

Network

DHCP Server

Security

System

Info Center

Theme

Regional Options

Notification

Task Scheduler

ABB  
Volume 1 (SP 1)

PKT  
Volume 1 (SP 1)

Ruijie\_REYEE  
Volume 1 (SP 1)

San pham moi  
Volume 1 (SP 1)

18 item(s)

Shared Folder Creation Wizard

Set up basic information

Name: Folder NAS demo

Description: NAS Demo

Location: Volume 1 (Available capacity: 1.80 TB) - b

Hide this shared folder in "My Network Places"

Hide sub-folders and files from users without permissions

Enable Recycle Bin

Restrict access to administrators only

Note: [How to set up a Recycle Bin emptying schedule](#)

Next Cancel

*Đặt tên thư mục, mô tả, vị trí lưu trữ và bấm NEXT*

# TẠO THƯ MỤC – 2

The screenshot displays the Windows Control Panel interface. On the left, a navigation pane lists various system settings under categories like File Sharing, Connectivity, and System. The main area shows a list of shared folders, including 'ABB', 'Volume 1 (SP 1)', 'PKT', 'Ruijie\_REYEE', and 'San pham moi'. A 'Shared Folder Creation Wizard' dialog box is open, currently on the 'Encryption' step. The dialog has a blue header with the title 'Shared Folder Creation Wizard' and a sub-header 'Encryption'. It contains a checkbox for 'Encrypt this shared folder' which is currently unchecked. Below the checkbox are two text input fields labeled 'Encryption key:' and 'Confirm key:'. A red text overlay 'Bấm NEXT' is positioned over the 'Next' button. At the bottom of the dialog, there are 'Back', 'Next', and 'Cancel' buttons. A 'Note' at the bottom of the dialog states: 'Your Key Manager is not initialized yet. Initialize it to manage encryption keys and mount shared folders automatically on start-up. [Learn how to initialize.](#)' The background shows the 'Control Panel' window with a search bar and navigation icons.

# TẠO THƯ MỤC – 3

Control Panel

Create Edit Delete Encryption Action

Search

File Sharing

Shared Folder

File Services

User

Group

Domain/LDAP

Connectivity

QuickConnect

External Access

Network

DHCP Server

Security

System

Info Center

Theme

Regional Options

Notification

Task Scheduler

ABB  
Volume 1 (SP 1)

Shared Folder Creation Wizard

Configure advanced settings

Enable data checksum for advanced data integrity *i*  
File self-healing and file system scrubbing are available to ensure data integrity.

Enable file compression *i*

Enable shared folder quota

1 GB

Note:  
To ensure service quality, we recommend not enabling data checksum when the shared folder will be used for the following services:

- Hosting databases or virtual machines
- Storing video recordings of Surveillance Station

Back Next Cancel

*Đặt Quota cho thư mục ( dung lượng dành cho lưu trữ camera )*

18 item(s)

# TẠO THƯ MỤC - 4

Control Panel

Create ▾ Edit Delete Encryption ▾ Action ▾

Search

File Sharing

- Shared Folder
- File Services
- User
- Group
- Domain/LDAP

Connectivity

- QuickConnect
- External Access
- Network
- DHCP Server
- Security

System

- Info Center
- Theme
- Regional Options
- Notification
- Task Scheduler

ABB  
Volume 1 (SP 1)

Shared Folder Creation Wizard

Confirm settings

Item	Value
Name	Folder NAS demo
Description	NAS Demo
Location	Volume 1 (Available capacity: 1.80 TB) - btrfs
Visibility	
Recycle Bin	Enabled, administrators only
Encryption	
Integrity Protecti...	
File Compression	
Quota	1 GB

Back Apply Cancel

*Bấm APPLY*

18 item(s)



# PHÂN QUYỀN THƯ MỤC – 0

The screenshot shows the Windows Control Panel window titled "Control Panel". The "File Services" section is active, with sub-sections for SMB/AFP/NFS, FTP, TFTP, rsync, and Advanced. The "AFP" section is expanded, showing "Enable AFP service" checked. Below it, the "NFS" section is expanded, and the "Enable NFS" checkbox is checked and highlighted with a red box. A red arrow points to this checkbox. The "Mac (Finder)" address is shown as "afp://NASNAT.local".

**Advanced Settings**

**Note:** You can enable Recycle Bin on the edit page of **Shared Folder**.

**Note:** After folders are indexed at **Indexing Service** and mounted to a Mac computer, you can use Finder to search the contained files and contents.

Enter the below address to access shared folders using a computer in your local network:

**PC (Windows Explorer):**      `\\NASNAT`

**Mac (Finder):**                      `smb://NASNAT`

**AFP**

Enable AFP service

Enable transfer log

**View Logs**

**Advanced Settings**

**Note:** Enable the Bonjour service discovery at **Advanced** to help Time Machine find your shared folders.

**Note:** After folders are indexed at **Indexing Service** and mounted to a Mac computer, you can use Finder to search the contained files and contents.

Enter the below address to access shared folders using a computer in your local network:

**Mac (Finder):**                      `afp://NASNAT.local`

**NFS**

Enable this function to allow users to access the server via NFS protocol.

**Enable NFS**

Enable NFSv4.1 support

NFSv4 domain:

**Advanced Settings**

**Note:** You can edit NFS permissions for shared folders on the edit page of **Shared Folder**.

**Apply**      **Reset**

➤ Trong trường hợp NAS chưa bật dịch vụ NFS thì vào Control panel – File Services để bật dịch vụ NFS – tích vào ô trong hình

# PHÂN QUYỀN THƯ MỤC – 1

The screenshot displays the Synology DSM Control Panel interface. The left sidebar contains navigation options such as File Sharing, File Services, User, Group, Domain/LDAP, Connectivity, QuickConnect, External Access, Network, DHCP Server, Security, System, Info Center, Theme, Regional Options, Notification, and Task Scheduler. The main area shows the 'Edit Shared Folder Folder NAS demo' dialog box, specifically the 'NFS Permissions' tab. The 'Create an NFS rule' sub-dialog is open, showing the 'NFS rule' configuration. The 'Hostname or IP\*' field is highlighted with a red box and contains the IP address '172.16.0.209'. Other fields include 'Privilege' (Read/Write), 'Squash' (No mapping), and 'Security' (sys). There are also checkboxes for 'Enable asynchronous', 'Allow connections from non-privileged ports (ports higher than 1024)', and 'Allow users to access mounted subfolders'. A note at the bottom explains that a host can be specified in three ways: Single host, Wildcards (\*, \*.synology.com), and Network segment (203.74.205.32/255.255.255.0, 203.74.205.32/24). The background shows a list of shared folders including ABB, BAO HANH, NAT\_Hướng dẫn, PKT, and Ruijie\_REYEE.

Control Panel

Create Edit Delete Encryption Action

ABB  
Volume 1 (SP 1)

BAO HANH

Edit Shared Folder Folder NAS demo

General Encryption Advanced Permissions Advanced Permissions **NFS Permissions**

Create Edit Delete

Client Privilege Squash Asynchronous Non-privileged p... Cross-mount

Create an NFS rule

NFS rule

Hostname or IP\*: 172.16.0.209

Privilege: Read/Write

Squash: No mapping

Security: sys

Enable asynchronous

Allow connections from non-privileged ports (ports higher than 1024)

Allow users to access mounted subfolders

\* You may specify a host in three ways:

- Single host
- Wildcards: \*, \*.synology.com
- Network segment: 203.74.205.32/255.255.255.0, 203.74.205.32/24

Mount path: /volum

OK Cancel

OK Cancel

Volume 1 (SP 1)

NAT\_Hướng dẫn  
Volume 1 (SP 1)

PKT  
Volume 1 (SP 1)

Ruijie\_REYEE  
Volume 1 (SP 1)

19 item(s)

*Trong mục NFS permission điền Host IP là địa chỉ IP của đầu ghi hình DVR/NVR*

# PHÂN QUYỀN THƯ MỤC – 2

Control Panel

Create Edit Delete Encryption Action

Search

File Sharing

Shared Folder

File Services

User

Group

Domain/LDAP

Connectivity

QuickConnect

External Access

Network

DHCP Server

Security

System

Info Center

Theme

Regional Options

Notification

Task Scheduler

ABB  
Volume 1 (SP 1)

BAO HANH

Edit Shared Folder Folder NAS demo

General Encryption Advanced Permissions Advanced Permissions **NFS Permissions**

Create Edit Delete

Client	Privilege	Squash	Asynchronous	Non-privileged p...	Cross-mount
172.16.0.209	Read/Write	No mapping	Yes	Denied	Denied

Mount path: /volume1/Folder NAS demo

OK Cancel

*Bấm OK để lưu*

NAT\_Hương dẫn sử dụng  
Volume 1 (SP 1)

PKT  
Volume 1 (SP 1)

Ruijie\_REYEE  
Volume 1 (SP 1)

19 item(s)

# PHÂN QUYỀN THƯ MỤC – 3

The screenshot displays a network management interface with a sidebar on the left and a main content area. The sidebar includes sections for File Sharing, Connectivity, and System. The 'File Sharing' section is expanded, showing a list of shared folders. The 'Folder NAS demo' folder is highlighted with a red box. In the main content area, the 'Edit Shared Folder' dialog box is open for 'Folder NAS demo'. The 'NFS Permissions' tab is selected and highlighted with a red box. The dialog box contains fields for Name, Description, and Location, along with several checkboxes and a button to empty the recycle bin. A red arrow points to the 'NFS Permissions' tab, and a red text box provides instructions on how to set permissions after creating a folder and applying it.

Control Panel

Create Edit Delete Encryption Action

File Sharing

Shared Folder

File Services

User

Group

Domain/LDAP

Connectivity

QuickConnect

External Access

Network

DHCP Server

Security

System

Info Center

Theme

Regional Options

Notification

Task Scheduler

CO CQ  
Volume 1 (SP 1)

Datasheet  
Volume 1 (SP 1)

Demo camera  
Volume 1 (SP 1)

EZVIZ  
Volume 1 (SP 1)

**Folder NAS demo**  
Volume 2 (SP2)

HDSN\_Non Hikvision  
Volume 1 (SP 1)

Hikvision Production  
Volume 1 (SP 1)

HiLook  
Volume 1 (SP 1)

NAT\_Firmware  
Volume 1 (SP 1)

NAT\_Hikvision\_Giải pháp  
Volume 1 (SP 1)

NAT\_Hướng dẫn sử dụng  
Volume 1 (SP 1)

PKT  
Volume 1 (SP 1)

Ruijie\_REYEE  
Volume 1 (SP 1)

San pham moi  
Volume 1 (SP 1)

Training  
Volume 1 (SP 1)

Weekly Update  
Volume 1 (SP 1)

19 item(s)

**Edit Shared Folder Folder NAS demo**

General Encryption Advanced Permissions Advanced Permissions **NFS Permissions**

Name: Folder NAS demo

Description: NAS Demo

Location: Volume 2 (Available capacity: 1.61 TB) - b

Hide this shared folder in "My Network Places"

Hide sub-folders and files from users without permissions

Enable Recycle Bin

Restrict access to administrators only

Empty Recycle Bin

Note: [How to set up a Recycle Bin emptying schedule](#)

OK Cancel

➤ Sau khi đã tạo thư mục và APPLY, Có thể vào Shared Folder – Chọn thư mục – Edit để phân quyền NFS hoặc chỉnh sửa lại các thuộc tính của thư mục vừa tạo như đổi tên, đổi dung lượng ...

# GÁN NAS VÀO DVR/NVR – 1

The screenshot shows the Hikvision web interface with the 'Configuration' menu selected. The 'Storage Management' option is highlighted in the left sidebar. The 'Net HDD' configuration page is active, displaying a table with columns for HDD No., Server Address, File Path, Type, and Delete. A 'Search' button is highlighted in the top right of the table. A 'Search' dialog box is open, showing a dropdown for 'Type' set to 'NAS', a 'Server Address' field containing '172.16.0.206', and a 'File Path' field containing '/volume1/Folder NAS demo'. The 'Search' button in the dialog is also highlighted. Below the dialog, three red arrows point to the instructions.

HDD No.	Server Address	File Path	Type	Delete
1			NAS	×
2			NAS	×
3			NAS	×
4			NAS	×
5				
6				
7				
8				

**Search**

Type: NAS Server Address: 172.16.0.206 Search

File Path

- /volume1/Folder NAS demo
- /volume1/Demo camera

OK Cancel

- Vào mục Configuration – Storage – Storage Management – Net HDD
- Chọn Server Address là địa chỉ IP của NAS vừa cài đặt và bấm Search
- Tích chọn thư mục vừa tạo

# GÁN NAS VÀO DVR/NVR – 2

HIKVISION Live View Playback Picture **Configuration** admin Logout

HDD Management **Net HDD** HDD Detection Cloud Storage

Net HDD Search

HDD No.	Server Address	File Path	Type	Delete
1			NAS	✘
2			NAS	✘
3			NAS	✘
4			NAS	✘
5				
6				
7				
8				

Search

Type: NAS Server Address: 172.16.0.206 Search

File Path
<input type="checkbox"/> /volume1/Folder NAS demo
<input type="checkbox"/> /volume1/Demo camera

➤ Tích chọn thư mục vừa tạo trên NAS

Save

OK Cancel

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# GẮN NAS VÀO DVR/NVR – 3

- System
- Network
- Video/Audio
- Image
- Event
- Storage
- Schedule Settings
- Storage Management**
- Advanced Settings
- Vehicle Detection
- VCA
- Human Body Capture

Net HDD				
HDD No.	Server Address	File Path	Type	Delete
1	172.16.0.206	/volume1/Folder NAS demo	NAS	×
2			NAS	×
3			NAS	×
4			NAS	×
5			NAS	×
6			NAS	×
7			NAS	×
8			NAS	×

➤ *Bấm SAVE để lưu*

Save

# GẮN NAS VÀO DVR/NVR – 4

HDD Management								Set	Format
<input type="checkbox"/>	HDD No.	Capacity	Free space	Status	Type	Property	Progress		
<input type="checkbox"/>	17	1652.55GB	0.00GB	Uninitialized	NAS	R/W			

- Để 1 lát đầu ghi hình sẽ nhận thư mục vừa tạo với trạng thái Uninitialized
- Để sử dụng được ổ cứng này, cần format thư mục này – Việc format sẽ k xóa dữ liệu hiện có trong NAS



## HDD Management

Net HDD

HDD Detection

Cloud Storage

HDD Management								Set	Format
<input checked="" type="checkbox"/>	HDD No.	Capacity	Free space	Status	Type	Property	Progress		
<input checked="" type="checkbox"/>	17	1652.55GB	0.00GB	Uninitialized	NAS	R/W	<div style="width: 20%;"></div> 20%		

## Note

➤ Quá trình format thư mục vừa tạo

⚙ Formatting...please wait...

# GẮN NAS VÀO DVR/NVR – 5

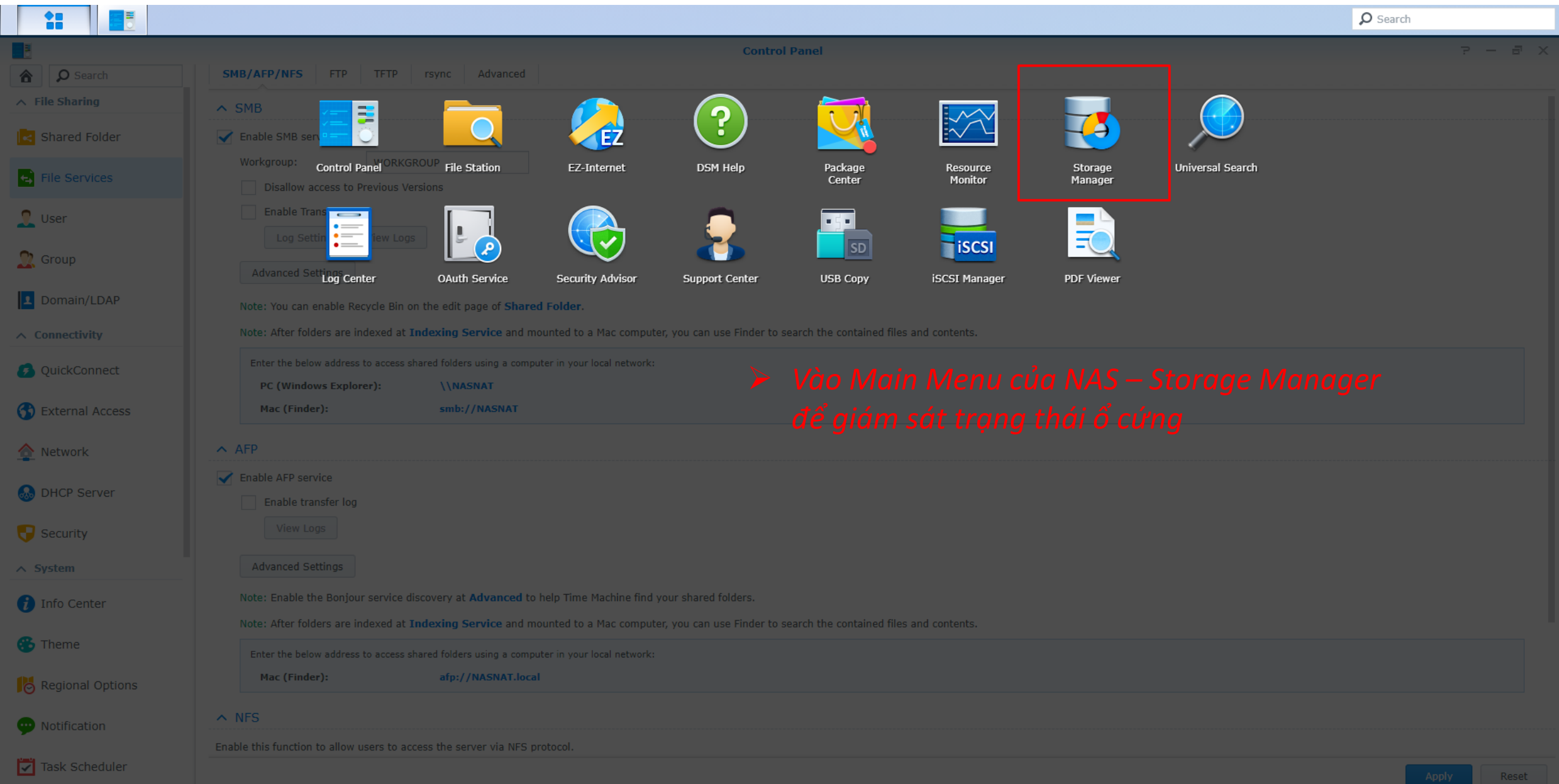
- System
- Network
- Video/Audio
- Image
- Event
- Storage
- Schedule Settings
- Storage Management**
- Advanced Settings
- Vehicle Detection
- VCA
- Human Body Capture

HDD Management Net HDD HDD Detection Cloud Storage

HDD Management								Set	Format
<input type="checkbox"/>	HDD No.	Capacity	Free space	Status	Type	Property	Progress		
<input type="checkbox"/>	17	1652.55GB	1611.00GB	Normal	NAS	R/W			

- *Format thành công*
- *Bạn có thể cài đặt lưu trữ cho đầu ghi hình và lưu vào ổ NAS như bình thường.*

# Phụ lục : Cách kiểm tra dung lượng ổ cứng đã sử dụng của NAS – 2



The screenshot displays the NAS Control Panel interface. The left sidebar contains navigation options: File Sharing, File Services, User, Group, Domain/LDAP, Connectivity, QuickConnect, External Access, Network, DHCP Server, Security, System, Info Center, Theme, Regional Options, Notification, and Task Scheduler. The main content area is titled "Control Panel" and features tabs for SMB/AFP/NFS, FTP, TFTP, rsync, and Advanced. Under the SMB/AFP/NFS tab, the "Storage Manager" icon is highlighted with a red rectangular box. Other icons visible include Control Panel, File Station, EZ-Internet, DSM Help, Package Center, Resource Monitor, Universal Search, Log Center, OAuth Service, Security Advisor, Support Center, USB Copy, iSCSI Manager, and PDF Viewer. Below the icons, there are notes and instructions for accessing shared folders via PC (Windows Explorer) and Mac (Finder) for both SMB and AFP protocols. At the bottom right, there are "Apply" and "Reset" buttons.

**➤ Vào Main Menu của NAS – Storage Manager để giám sát trạng thái ổ cứng**

# Phụ lục : Cách kiểm tra dung lượng ổ cứng đã sử dụng của NAS – 2

The screenshot displays the Synology Storage Manager interface. The left sidebar contains navigation options: File Sharing, File Services, User, Group, Domain/LDAP, Connectivity, QuickConnect, External Access, Network, DHCP Server, Security, System, Info Center, Theme, Regional Options, Notification, and Task Scheduler. The main area is titled "Storage Manager" and shows a list of storage volumes. Two volumes are listed:

Volume Name	Status	Used Space	Total Capacity
Volume 1 - SP 1	Healthy	77.18 GB	1.88 TB
Volume 2 - SP 2	Healthy	20.77 MB	1.61 TB

The "Volume 2 - SP 2" row is highlighted with a red border. Below the volume list, there is an "Advanced Settings" section with the following text:

**Note:** Enable the Bonjour service discovery at **Advanced** to help Time Machine find your shared folders.

**Note:** After folders are indexed at **Indexing Service** and mounted to a Mac computer, you can use Finder to search the contained files and contents.

Enter the below address to access shared folders using a computer in your local network:

**Mac (Finder):** `afp://NASNAT.local`

Below this, there is an "NFS" section with the text: "Enable this function to allow users to access the server via NFS protocol." At the bottom right, there are "Apply" and "Reset" buttons.