

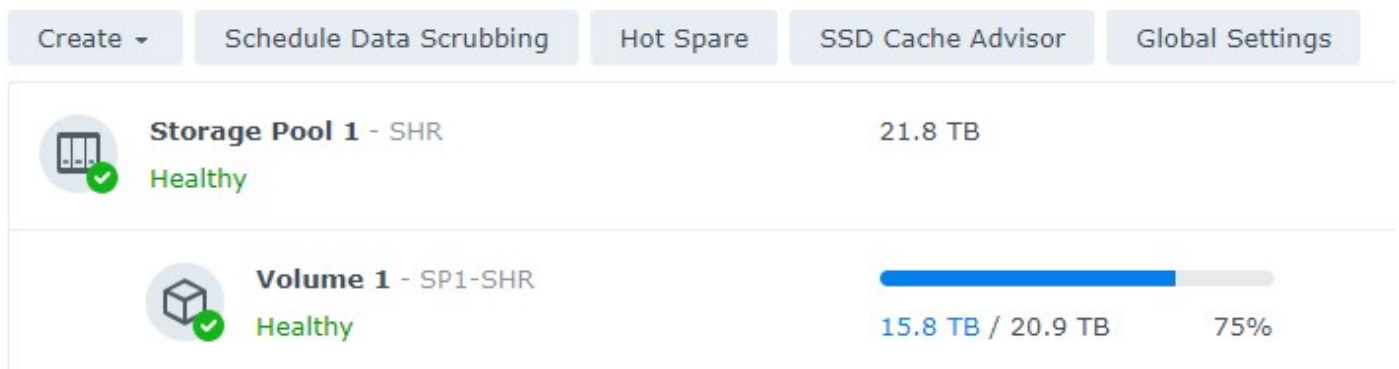
# Data Protection and Monitoring Setup

Now that a storage pool, volume, and shared folder are created, we need to change a few settings to protect and monitor our data.

## Set up a Data Scrubbing Schedule on a Synology NAS

Data scrubbing inspects your volumes and modifies detected inconsistencies. In simple terms, this protects your NAS against bit-rot. There isn't a specific schedule that's mandatory, but it's a good idea to run it at a minimum, bi-annually.

1. Open **Storage Manager**, select **Storage Pool**, then **Schedule Data Scrubbing**. Then select **Set Schedule**



The screenshot shows the Synology Storage Manager interface. At the top, there are navigation tabs: "Create", "Schedule Data Scrubbing", "Hot Spare", "SSD Cache Advisor", and "Global Settings". Below the tabs, there are two main sections. The first section is for "Storage Pool 1 - SHR", which is 21.8 TB and has a "Healthy" status. The second section is for "Volume 1 - SP1-SHR", which is 15.8 TB / 20.9 TB (75% full) and also has a "Healthy" status.

Component	Capacity	Status
Storage Pool 1 - SHR	21.8 TB	Healthy
Volume 1 - SP1-SHR	15.8 TB / 20.9 TB (75%)	Healthy

1. Select **Enable Data Scrubbing schedule**, then select the **Storage Pool**, select a **Frequency** and **Save**

Performing data scrubbing periodically ensures data consistency and lowers the risk of data loss in the event of a drive failure.

Enable data scrubbing schedule

Data scrubbing can only run on one storage pool at a time. Please select and prioritize the storage pools that you want to perform data scrubbing.

<input checked="" type="checkbox"/>	Name	Status
<input checked="" type="checkbox"/>	Storage Pool 1	Scheduled on 08/08/2021

Frequency

Repeat every three months

Run data scrubbing only during specific periods

Running data scrubbing may take some time and occupy computing resources. You can set data scrubbing to run only during specific periods and thereby prevent this process from affecting the system performance when other important services or tasks are in progress.

Set Time Grid

Next run time: **08/08/2021 12:00 am**

Cancel

Save

## Set up Snapshots on a Synology

The easiest way to think of snapshots is that they “freeze” your files in time and allow you to recover those files later if necessary.

Every time a snapshot is created, a “restore” point is created, which allows you to recover files/folders from a point in time. The best part about this is that the snapshots themselves take up very little space and give you tons of flexibility!

1. Open the **Package Center**, search for **Snapshot** and install the **Snapshot Replication** package.

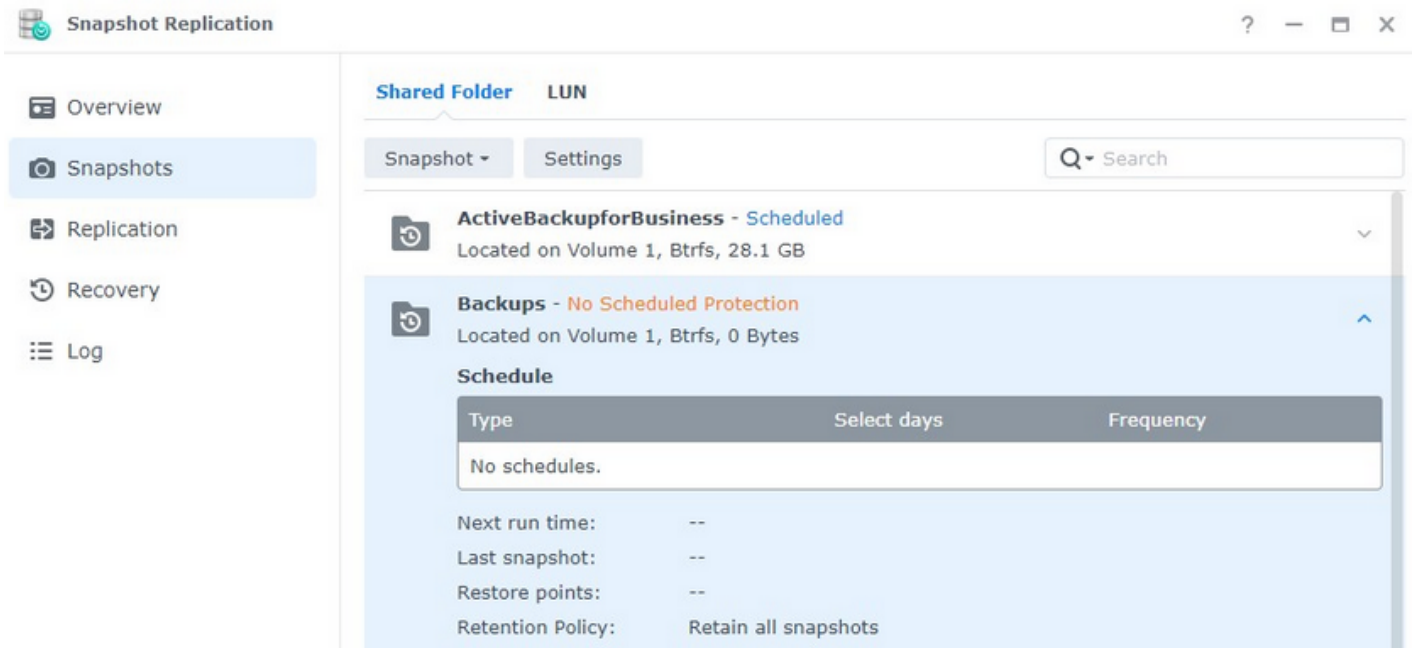


**Snapshot  
Replication**

06/01/2021

Open

- When the install finishes, launch the **Snapshot Replication** application. Select **Snapshots** and select **settings** on the folder you'd like to schedule protection for.



- Enable the snapshot schedule.** At this point, there are two final settings you'll need to check:

- **Retention:** Select how many snapshots you'd like to retain. Depending on the file type (and size), you'll most likely have different retention policies for different folders.
- **Snapshot Visibility:** If you would like snapshots to be visible, select the checkbox under the **Advanced** section.

## Settings

**Schedule**   **Retention**   **Advanced**

Enable snapshot schedule

Select days:

First run time:  :

Frequency:

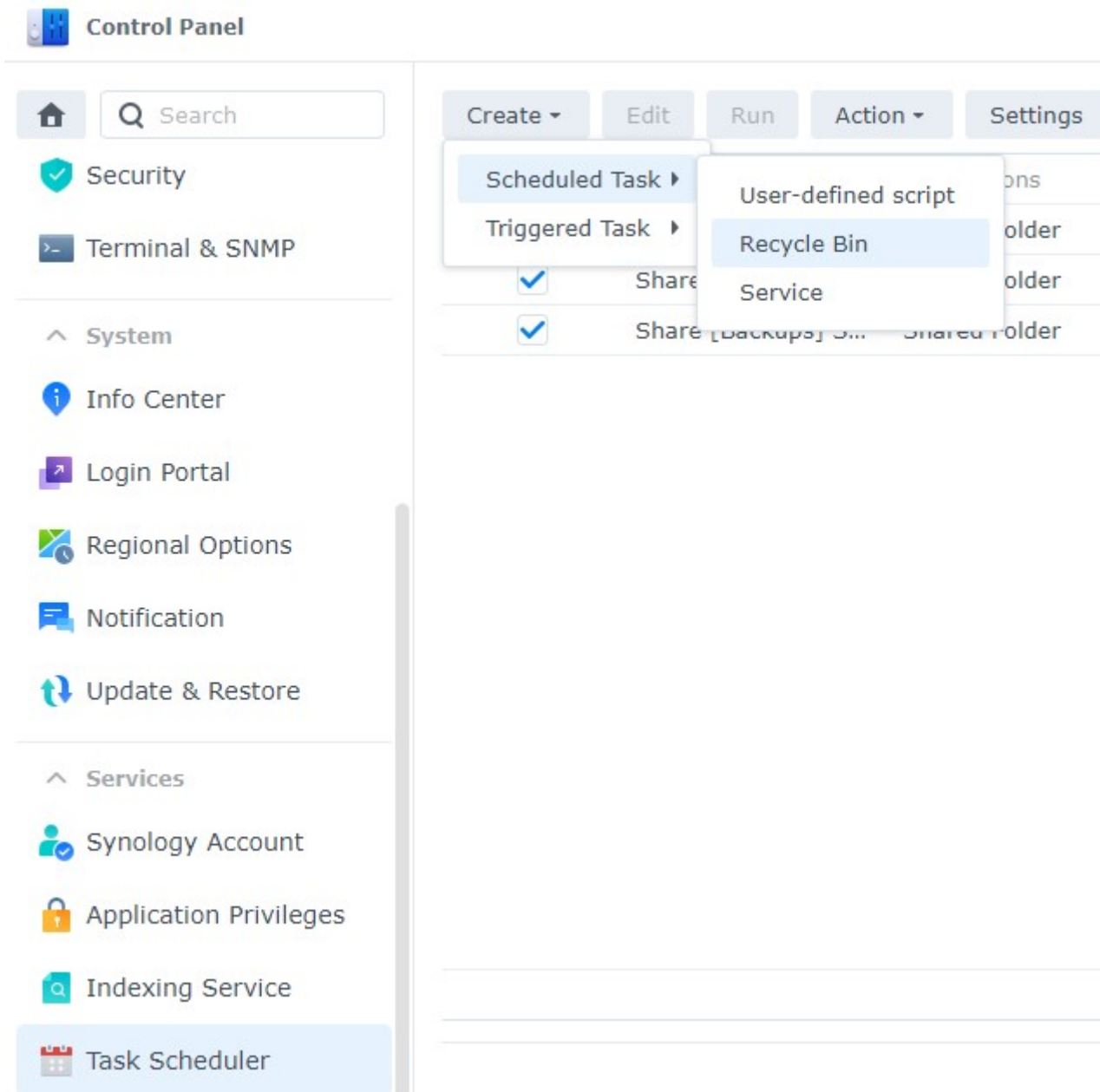
Last run time:

- After the snapshots have been configured, your system will start to create snapshots regularly. When the retention policy hits its maximum, old snapshots will be deleted.

# Set up a Recycle Bin Task on a Synology NAS

By default, the recycle bin will retain files until you empty it. However, there's an easy way to set up a schedule so that your NAS automatically deletes these old files after a certain period of time.

1. Open the **Control Panel** and select **Task Scheduler**
2. Select **Create**, then **Scheduled Task**, then **Recycle Bin**



- General: Enter a Task Name.

## Create task

**General** Schedule Task Settings

### General Settings

Task:

User:

Enabled

- **Schedule:** Specify when you'd like the task to run.

## Create task

General **Schedule** Task Settings

### Date

Run on the following days

Run on the following date

### Time

First run time:  :

Frequency:

Last run time:

- **TaskSettings:** Specify if you'd like all recycle bins to empty or only specific ones.
  - **Retention Policy:** This is an important step! I retain all deleted files for 14 days, but this is completely personal preference. This setting specifies when files are deleted. There are also advanced settings you can check.

## Create task

General Schedule **Task Settings**

### Empty Recycle Bin

- Empty all Recycle Bins
- Empty the Recycle Bin of the below shared folder

### Retention Policy

- Delete all files
- Number of days to retain deleted files:
- Limit Recycle Bin size (MB):

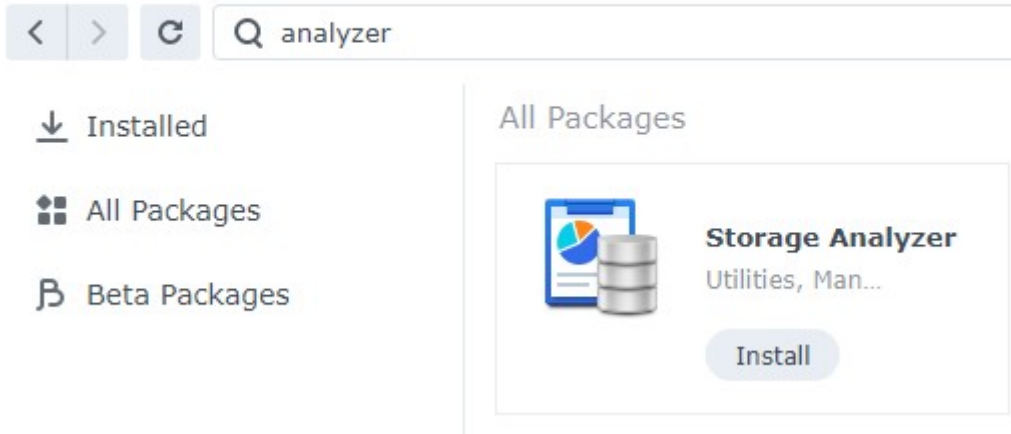
Advanced Settings

This is very important because when you're using a NAS, you generally have data rotating like snapshots and backup files.

## Set up the Storage Analyzer on a Synology NAS

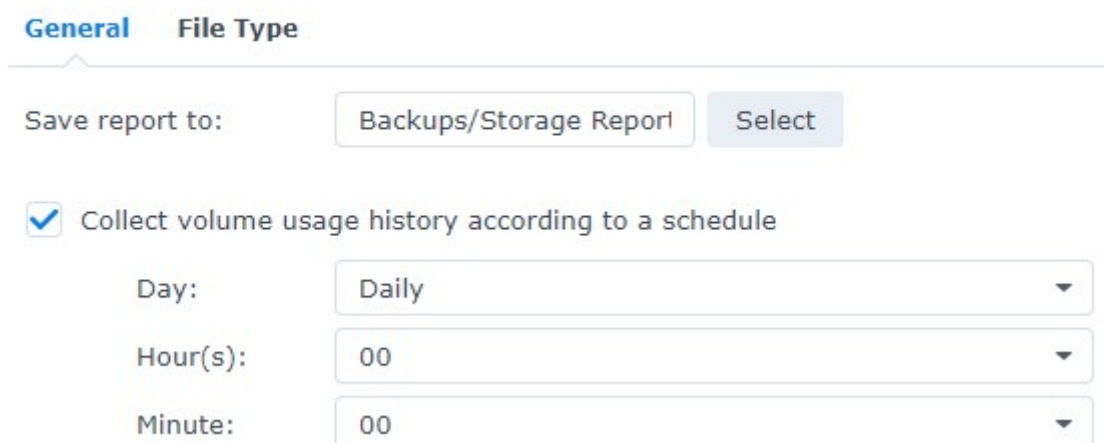
The storage analyzer allows you to see what files/folders are taking up space on your NAS and if any duplicates exist. It's a powerful tool that periodically comes in handy.

1. Open the **Package Center**, search for Analyzer, and install the **Storage Analyzer** package.

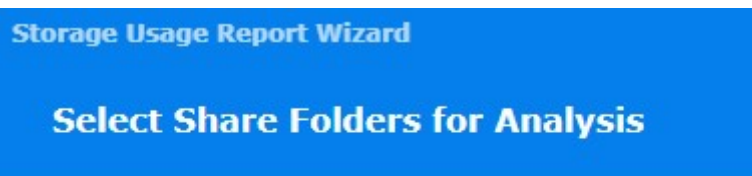


- When it's done installing, open the package. You will be asked to specify a location to save your reports. Select **Yes**. Specify a location to save your reports and the frequency you'd like reports generated.

### Settings



- A wizard will then start to assist you in the creation of the scheduled task. Give your report a name, set a schedule, and then specify the total number of reports you'd like to keep.
- Keep all Report Types selected (unless you don't want specific ones generated) and click
- Determine if you'd like to analyze all current and future shared folders, then select



- Analyze all the existing and future shared folders
- Only analyze specific shared folders

6. Select the settings you'd like to use to find duplicate files.

## Storage Usage Report Wizard

### Advanced Settings

#### Potential Duplicate Files

Find duplicate files when generating reports i

Ignore file names

Ignore modified time

Max number of duplicate files:

200

i

#### File List

List files owned by these users by file group:

guest

7. Select **Generate reports now**, then **Done**, and the process is officially set up!

## Summary

Item	Value
Enable Schedule	Yes
Generate reports accordin...	Sunday Monday Tuesday Wednesday Thursday F...
Generate reports now	No
Report Task	Storage Analyzer
Email	
Report Rotation	100
Report Type	Quota Usage,Files by Owner,Volume Usage,Shar...
Select shared folders	Include all shared folders
Find confirmed duplicate fi...	Yes
Ignore modified time	Yes

Generate reports now

Back

Done

This might not seem important on the surface, but understanding how your storage is being used is integral!

Revision #3

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