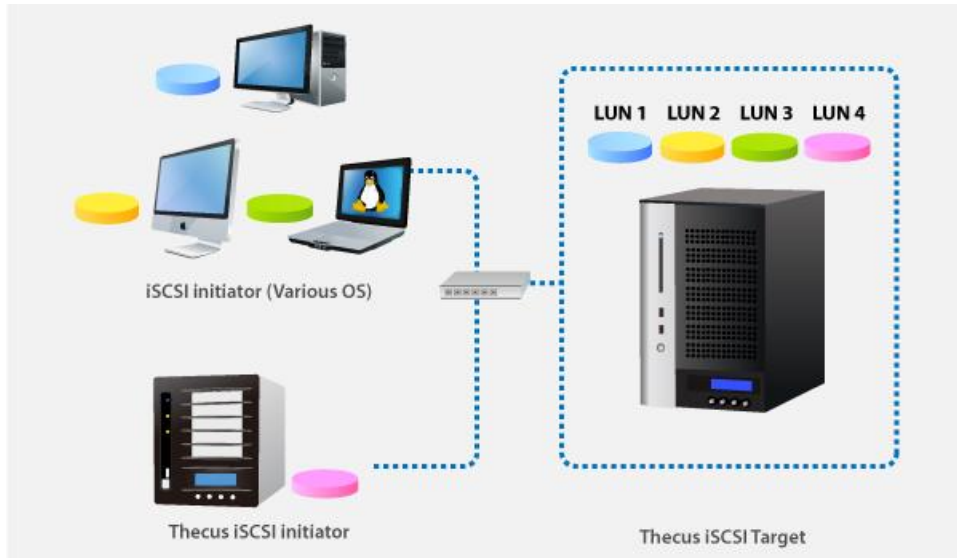


## How to Create an iSCSI Target on Thecus NAS

Thecus' wide range of NAS servers are iSCSI Ready, offering businesses of all scales with the flexibility, scalability and expandability needed to stay competitive. iSCSI (**Internet Small Computer System Interface**) is an IP-based protocol used to link data storage devices. One of the major benefits of iSCSI is that it requires no dedicated cable like fiber channel and can be run over existing network infrastructures, greatly reducing IT expenditure for modern businesses.



Thecus iSCSI NAS servers allow users to create iSCSI target volumes on their Thecus NAS. These volumes can be added to desktop or laptop computers as a local physical hard drive, which can then be utilized as extra storage space or used to install and run various applications. iSCSI target volumes are created based on existing RAID arrays from the Thecus NAS, making it perfect for use as a backup destination with the protection of Thecus RAID technology. Whenever the need arises to expand storage capacity, up to 5 Thecus NAS devices can be stacked together using the built-in iSCSI initiator. Furthermore, data can be accessed via a single NAS for added convenience and flexibility.

**Applicable Models: N4100PRO, N4200, N0503, N5200PRO, N5500, N7700 Series, N8800 Series, 1U4500R/1U4500S and 1U4600R/1U4600S**

Please also see:

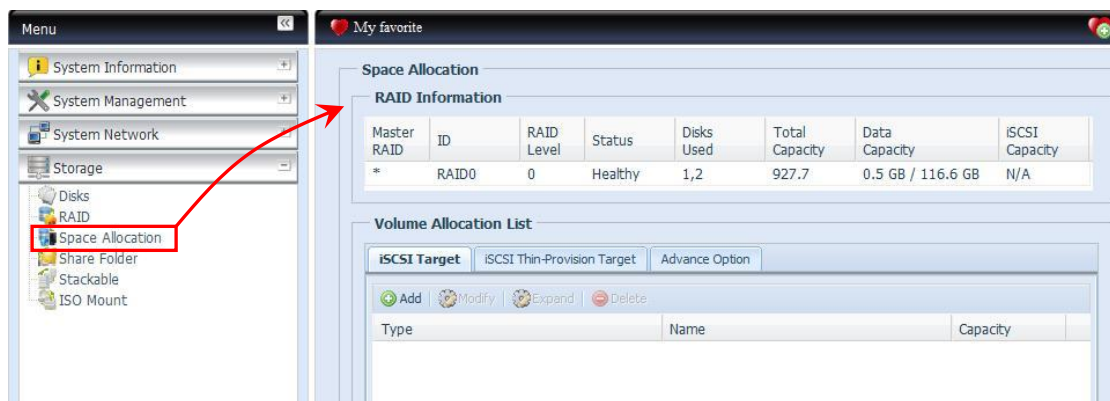
- [How to Stack Thecus NAS Devices](#)
- [How to Create an iSCSI Target on Thecus NAS](#)
- [How to Create an iSCSI Thin-Provision Target on Thecus NAS](#)

Please carefully read the notes below before you begin.

### Notes


1. You will need a completed RAID system before creating iSCSI targets.
2. You may specify the space allocated for iSCSI volume. Up to five iSCSI volumes can be created per RAID volume.

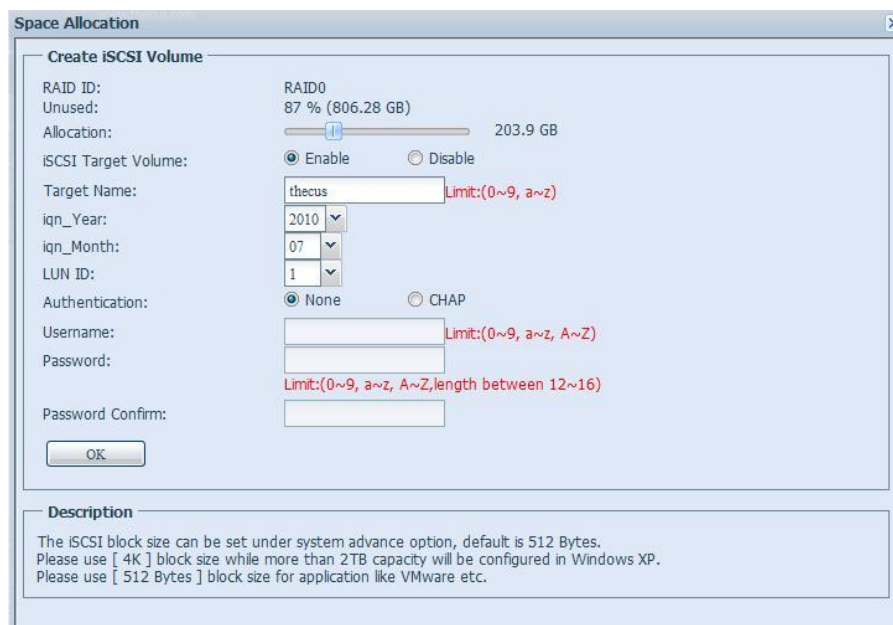
1. In the Web GUI, click **Storage > Space Allocation** to open the **Space Allocation Page**.



Please see the following table for detailed descriptions of each option:

Volume Allocation List	
Item	Description
Modify	Click this to modify the allocated space.
Delete	Click this to delete the allocated space.
iSCSI Target	Click to allocate space to iSCSI volume.
Type	Type of volume. Can be either USB or iSCSI.
Name	Name assigned to the volume.
Capacity	Capacity of the allocated space.

2. Next, click on  **Add** to open the **Create iSCSI Volume** window as shown below:



Please see the following table for detailed descriptions of each field:

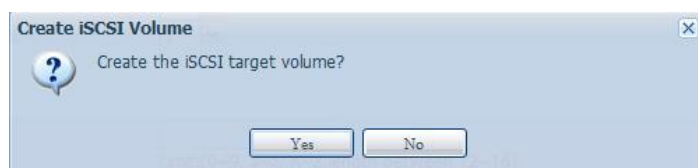
Create iSCSI Volume	
Item	Description
RAID ID	ID of current RAID volume.
Allocation	Percentage and amount of space allocated to iSCSI volume.
Unused	Percentage and amount of unused space on current RAID volume.
iSCSI Target Volume	Enable or Disable the iSCSI Target Volume.
Target Name	Name of the iSCSI Target. This name will be used by the <b>Stackable NAS</b> function to identify this export share.
iqn_Year	Select the current year from the dropdown.
iqn_Month	Select the current month from the dropdown.
LUN ID	Select the LUN ID number
Authentication	You may choose CHAP authentication or choose None.
Username	Enter a username.
Password	Enter a password.
Password Confirm	Re- Enter the chosen password

3. On the **Create iSCSI Volume** page, allocate the amount of space for the iSCSI target volume.
4. Enable the iSCSI Target Service by selecting **Enable**.
5. Enter a **Target Name**. This will be used by the Stackable NAS function to identify this export share. In this guide, we will name it “**thecus**”
6. Select the current year from the **iqn\_Year** dropdown bar.
7. Select the current month from the **iqn\_Month** dropdown bar
8. Select a **LUN ID** number

### Notes

1. iqn\_Year and Month will be used to name the iSCSI target volume
2. Logical Unit Number. A logical unit number (LUN) is a unique identifier which enables it to differentiate among separate devices (each one is a logical unit).

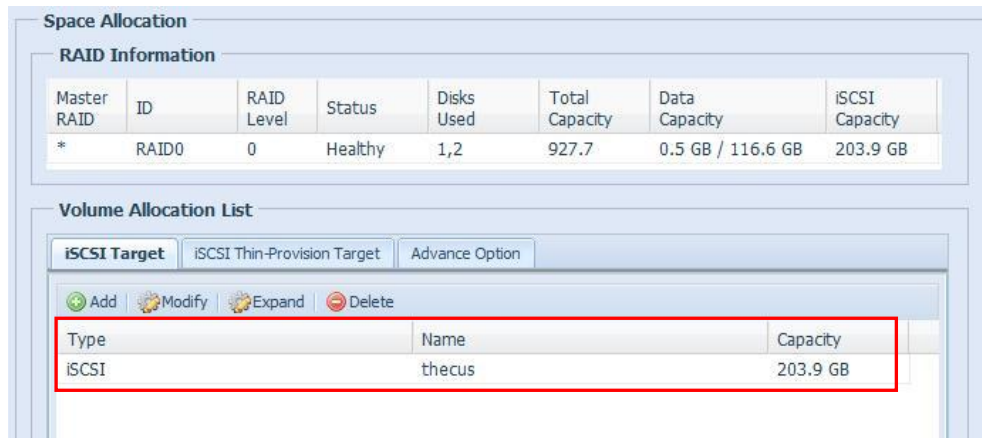
9. Select **CHAP** to enable authentication or choose **None** if you don't want to. In this HowTo guide, we will select **None**.
10. Click the **OK** button to proceed.
11. A new window will appear as below. Click **Yes** to proceed and start creating the iSCSI volume.



12. A new window will appear as below. Click **OK** to proceed.



13. The page will automatically return to the **Space Allocation** page as shown below. You can now see that the iSCSI target named **"thecus"** appears under the **Volume Allocation List**.

A screenshot of a web-based management interface. The top section is titled "Space Allocation" and contains a "RAID Information" table. Below it is a "Volume Allocation List" section with tabs for "iSCSI Target", "iSCSI Thin-Provision Target", and "Advance Option". The "iSCSI Target" tab is active, showing a table with columns "Type", "Name", and "Capacity". A red box highlights the row for the "thecus" iSCSI target.

Master RAID	ID	RAID Level	Status	Disks Used	Total Capacity	Data Capacity	iSCSI Capacity
*	RAID0	0	Healthy	1,2	927.7	0.5 GB / 116.6 GB	203.9 GB

Type	Name	Capacity
iSCSI	thecus	203.9 GB

--End--

For more Thecus How-to guides, please go to:

[Thecus Classroom](#)

For any questions regarding this How-to Guide, please email us:

[webmaster@thecus.com](mailto:webmaster@thecus.com)

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