How to Expand iSCSI for NVR7316

Application Notes

Version <1.0>



Preface

In this application guide, we are going to introduce how to setup the iSCSI storage devices and how to add iSCSI storage devices to Linux based NVR.

Follow the steps below to complete configurations:

- 1. How to Connect to iSCSI-based Storage and NVR7316?
- 2. Configure iSCSI Storage.
- 3. Add iSCSI Storage to Linux-based NVR.

1. How to Connect to iSCSI-based Storage and NVR7316?

■ The image below shows the rear panel of iSCSI storage, and location of all ports.



The image below shows the LAN port for iSCSI traffic which is mainly used for the purpose of configuration management.



Channel 0~3 are 4-portchannelsfor iSCSI storage. Each channel, as one logical volume, will assign an IP address.



All the network cables must connect to GigaLAN Ports from core switch to your network.

2. Configure iSCSI Storage.

- 2.1 Install SANWatch Software Suite and Log in.
- 2.2 Add New Storage Devices.
- 2.3Create a New Logical Volume.
- 2.4Create New Partitions.
- 2.5 Host LUN Mapping

2.1 Install SANWatch Software Suite and Log in.

- Go to SANWatch download link: <u>https://www.dropbox.com/home/Surveon/Public/Tool?preview=SANWatch 3.</u> <u>0.j.27.zip</u>
- Download the software and Unzip it.



| Organize 🔹 📄 Open | Share with New folder | | | | · · | 0 |
|---|--|--|---|---|-----|---|
| Favorites | Name Client.pem data getkey | Date modified 2003/1/28 上十 02 2016/7/7 下午 12:07 2001/7/2 下午 01:51 | Type PEM File Compressed (zipp Application | Size 2 KB 293,821 KB 28 KB | | |
| Libraries | IFTNative.dll installshield.jar | 2012/11/12 下午 0 2016/7/7 下午 12:04 | Application extens JAR File | 50 KB 3,815 KB | | |
| Documents Music Pictures PPTV视频 | ↓2pi.sh ▲ jre1.6.0_25-i586 ▲ jre1.6.0_25-x64 ↓ linux.sh | 2001/7/2 下午 01:48 2011/5/5 下午 02:19 2011/5/5 下午 02:19 2015/10/19 下午 0 | VLC media file (.bi VLC media file (.bi VLC media file (.bi | 12,970 KB 21,075 KB 20,684 KB 5 KB | | |
| J Videos | linuxCmd.sh | 2015/9/30 下午 02 2010/12/23 下午 0 2004/10/8 上午 10 | SH File Compressed (zipp | 4 KB 16 KB 2 KB | | : |
| Computer Local Disk (C:) Local Disk (D:) CD Drive (E:) RTI | anac.sw3_link.tar policy.jav random.pem | 2013/7/17下午11 2001/9/28上午11 2003/10/3下午05 | TAR File JAV File PEM File | 135 KB 1 KB 2 KB | | |
| Removable Disk (| rootca.pem | 2003/1/28 上午 02 2007/10/12 上午 0 | PEM File Application | 1 KB 140 KB | | |
| Ketwork | unix-agent.sh | 2008/12/29 下十 0 2010/9/30 上午 11 | SH File | 2 KB 3 KB | | Ļ |

Double click the "setup.exe" to launch the installation wizard.

Press "OK".

| Informa | ation |
|-----------|--|
| () | To ensure a successful installation, It is strongly recommended that you quit all windows programs and log in as an administrator or root. |
| | ОК |

Follow the steps to install it step by step. Click "Next" to continue.



■ In this step, press "Browse..." to select the path where you want to save it.

| Infortrend SANWatch | Setup |
|---------------------|--|
| | Click the type of Setup you prefer, then click Next |
| | Install SANWatch software, including its Management Host Agent, Data Host Agent, and related files. Recommended for most users. Custom |
| | You may choose the options you want to install. Recommended for advanced users. Destination Folder |
| | C:\Program Files\Infortrend Inc\SAN Browse |
| | Back Next Cancel |

Press "Next".

| Infortrend SANWa | tch Setup | |
|------------------|--|----------------------------------|
| | Select Single or Redu Centralized Manager Single | undancy Mode of nent |
| | Redundancy: Ma | ster Host |
| | Master-host IP: 19 | 92.168.88.122 |
| 1 | Slave-host IP: Pl | lease input slave-host IP here. |
| | Redundancy: Sla | ive Host |
| | Master-host IP: PI | lease input master-host IP here. |
| | Slave-host IP: 19 | 92.168.88.122 |
| | _ | Back Next Cancel |

After finished, it will show the information below. Then close all the running programs and restart your computer to take effect the settings.



■ After restarting, press the "SANWatch" icon on your desktop.



 Log in SANWatch platform. The default password is root and use the default as ID.

| C 1010/127.001.9318/tcg/s.thtml/sessonid=12/518aumupt/2687gv456460 | 。 ク・C 響 SAWWatch × | − • × • |
|--|-----------------------------|-----------------------|
| | | |
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| | Qinfortrend | |
| | Connect | |
| | Management Host | |
| | Password | |
| | | |
| | Remember Plasmont SSL Login | |
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2.2 Add New Storage Devices.

Users can go to "Tasks" > "Auto Discovery" to search your iSCSI device automatically. Or go to "Tasks" > "Add Device" add the iSCSI device(s) manually.

| System Settings Langua | oe About | D + 0 @ SANWate | h × | A Replication Manager | A Help | Data Beload |
|------------------------|--|---|-----------------------------|---|-------------|-------------|
| Device | Device Status | | | P | 0.14 | 0 |
| Device List | fault Group | 😏 Status 🗝 | | System Performance | Capacity | |
| | | | | | | |
| | Tasks Add Device | | Eemove | Doxe | | |
| | Add a device using in Plad Add a device using in Plad Discover all devices that are Edit.Group Group devices legither to all | res of host name. connected to this server via in-band or out-of-band connections. splify device management | Remove Remove Decover | a device from the last. Inte <i>the Here Device</i> and configure a new device through this step by-step se | tup wizard. | |

■ For "Auto Discovery" selection, assign the scan range of starting IP address, and ending IP address.

2.3 Create a New Logical Volume.

After adding on a new storage device to the device list, click the device name and click "Logical Volumes". Then, go to "Task" > "Create Logical Volume" to create new logical volume(s).

| → + ++++/127,001 s | 818/Jaessionid=luv4eoprisat3x68pczpies | d | SANWatch × | | | ÷ + |
|---|--|--|---|-----------------------|----------|---------------|
| ystem Settings Language | About | | 6 | a Replication Manager | Help | C Data Reload |
| Device | Logical Volume List | | | | | |
| Device List | Group Name - | 🎲 Status 🗕 | Logical Drive Amount - | | Capacity | |
| DS 1016GE Concel Volumes Co | | | No Data | | | |
| | Tasks Create Logical V Add a new logical V | ung June using available drives in the subsystems connected to the server | Debts Logical Volume Remove the selected legical | i volume. | | |
| | | | | | | |

Select the HDD(s) from illustration below by clicking the HDD(s) or checking the slot-number. The selected HDD(s) will turn highlighted yellow. Then, in "RAID Level" drop-down list, select one RAID Level for this new logical volume. Select "Next" to proceed.

| Create a logical volume | and configure its | parameters. | | | |
|-------------------------|-------------------|-------------------------|------|-----------|------|
| cal Volume Name: | Logical Volu | me 1 | | | |
| 0 | • | | Slot | Size | Туре |
| • | | • | | 931.25 GB | SATA |
| | | | | 931.25 GB | SATA |
| | | | | 931.25 GB | SATA |
| | | | | 931.25 GB | SATA |
| | | | | 931.25 GB | SATA |
| Der of Member Drives: | 4 Default | RAID Level: RAID6 | | 931.25 GB | SATA |
| e Size: | 128K | | 7 | 931.25 GB | SATA |
| Security | Disable | Total Capacity: 1.81 TB | 15 | 931.25 GB | SATA |
| | | | | | |

■ When finishing, check the summary list and press "OK"> "Close" to exit.

| ummary | | | | × |
|--|---------------------------|------|----|--------|
| Summary View the summary of Quick Setup and | d confirm the parameters. | | | |
| Logical Volume: | | | | |
| Logical Volume Name: | Logical Volume 1 | | | |
| Data Protection Level: | Better Protection | | | |
| Number of Member Drives: | 4 | | | |
| Write Policy: | Default | | | |
| Stripe Size: | 128K | | | |
| SED Security | Disable | | | |
| Total Capacity: | 1.81 TB | | | |
| Used / Available Drives: | 4 / <mark>4</mark> | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | Back | ОК | Cancel |



2.4 Create New Partitions.

In the new logical volume, select "Partitions"> "Create Partition" to create a new partition.

| Control 127.0.0.1 8 | 8818/jsessionid=luv4aoprisat3x68pcz | pjewd | D - C SANWatch | × | | | <u>n</u> ★ ☆ |
|---|---|--|----------------|-------------------|---------------------|-------------------------|-----------------------------|
| System Settings Language | About | | | | Peplication Manager | Help | O Data Reload |
| Bevice | Partition List | | | | | | |
| Device List Default | Group Name - | Thin Prov - | Map - | Data Protection - | | Capacity | |
| Counter C | Table Create Partie Add a reve part | 2) Tion samp available space to a logical volume. | | 2 Data | parties. | | |
| | | | | | | | |
| Total connected device(s): 1 Disc | connected: 0 🛕 Total Error event(s): | 0 🛆 warning: 208 | | | DS 1016GE Con | troller time: 2016-8-22 | 4.46.34 Uptime: 14:01:20:29 |

Create a new partition and assign complete free size in this partition.

| | | and the second se |
|-------------------------|---------------------|---|
| Configure the parameter | s of the partition. | |
| Partition Name: | Partition 1 | Logical Volume Information |
| Size: | 1.81 TB 🗸 | Volume Name: Logical Volume 1 |
| Initialize Partition A | fter Creation | Free Size: 1.81 TB |
| Enable Thin-Provis | ioning | |
| Minimum Reserved Sp | ace | |
| | 0 TB 🔽 0 % | |
| Map Partition to Ho | est | |
| | | |
| | | |
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Press "Yes".

| Warning | | × |
|---------|--|----------------|
| | The logical volume may not contain enough space for | r data service |
| | afterward. Are you sure you want to create the partition | on? |
| | | |
| | | |

 Press "OK" to finish creating the new partition. In the pop-up information, press "Close" to exit.

| View the summary of the newly created part | iition. | | | |
|--|------------------|------|----|--------|
| Partition | | | | |
| Name: | Partition 1 | | | |
| Size: | 1.8 TB | | | |
| Minimum Reserved Space: | 1.8 TB | | | |
| Initialize Volume After Creation: | Yes | | | |
| Logical Volume | | | | |
| Name: | Logical Volume 1 | | | |
| Size: | 1.81 TB | | | |
| Available: | 1.81 TB | | | |
| Host Mapping | | | | |
| Map: | No | | | |
| | | | | |
| | | | | |
| | | Back | ок | Cancel |
| Information | | Back | ок | Cancel |
| Information The partition has bee | n created. | Back | ж | Cancel |

2.5 Host LUN Mapping

■ Select new partition and go to "Task" > "Host LUN Mapping".

| Attp://127.0.0.1:8818/; | sessionid=luv4aoprisat3x68pczpjewd | | ,Ω - Ċ @ sanw | atch | × | | | _ □ _ × |
|---|--|---|---|------|---|---|------|----------------|
| System Settings Language Abou | đ | | | | | Parallel Replication Manager | Help | 🕒 Data Reload |
| Contraction Device | Partition Status | | | _ | | | | |
| Device List Default Group | Partition Information | | | | Capacity | | | |
| Bostoficie Distoficie Logical Volumes Logical Volumes Logical Volume 1 Publicon Logical Drive 1 Partition 1 Partition 1 | Partition 1 | Size: ID: Status: Map: Replication: | 1.8 TB 4512FE224BF5DBEA The volume has been mounted. No | | | Total Capacity: 1.8 TB Used Space: 1.8 TB (100%) Free Space: 0.MB (0%) | | |
| - S Channels | LUN Mapping Information | | | 6 | Snapshot of Se | lected Partition | | |
| Schedules | Channel | Host ID | Assignment | | Snapshot Image ID | Activated Time | Size | |
| | | | | ~ | | | | |
| | Tasks | | | _ | | | | |
| | Equal Particle Equal the capacity of Equal the capacity of East the configuration of East the configuration of Statestool Take snapshots of this | this partition using available sp If this partition. partition, view the profiles of or | ace in a logical volume. apphot images, and n.v snapshot-solited operations. | | E Delete Remov Map th Control Map th Esclar | <u>Particol</u> e ha partico. Il Macceno p particol to the host or manage existing LUN mappings. cell Settings B. Buh, and <u>Managa</u> | | |
| | | | | | | | | |

Press "Create" to create a new LUN Mapping.

| Map th | is partition to t | he host or m | nanage existing | LUN mappi | ngs. | | | |
|--------|-------------------|--------------|-----------------|-----------|---|------------|---------------|---------------|
| CH 🔺 | Target 👻 | LUN 🔻 | Host ID 🔻 | Ali 🔻 | Group 🔻 | Priority - | Filter Type 🕶 | Access Mode - |
| | | | | | | | | |
| | | | | | | | | |
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In configuration window, check "Customize the host LUN mapping configurations" and select "iSCSI 1.0 Gbps". Then, select one Channel among Channel 0~3. Press "OK" and "Close" to exit.

| Create Host LUN Mapping | | | х |
|---|---------------------------------|---------------|--------|
| Create LUN Mapping to host | | | |
| Create a host LUN mapping set automatically. SAS 6.0 Gbps in SCSI 1.0 Gbps Customize the host LUN mapping configurations SAS 6.0 Gbps is SCSI 1.0 Gbps Slot A- Channel 0 ID: C Channel 1 | ID: V Channel 2 ID: V | Channel 3 ID: | 文 |
| Customize the LUN Number: | 0 | | |
| Use Extended Host LUN Functionality: | | | |
| Alias | PC | | |
| Filter Type | Include | | |
| Access Mode | Read/Write | | |
| | Configure iSCSI Initiator Alias | | |
| | | | |
| | | ОК | Cancel |
| Information The task has been completed | | × | |
| | | | |

Close

In the table, we can see the channel number displayed and press "Cancel" to exit.

| ost LUN | Mapping | | | | | | | - |
|---------|--------------------|--------------|-----------------|------------|---|------------|---------------|---------------|
| Map th | is partition to th | ne host or m | nanage existing | LUN mappir | ngs. | | | |
| CH 🔺 | Target 🕶 | LUN 🕶 | Host ID 🔻 | Al * | Group 🔻 | Priority 🕶 | Filter Type 🕶 | Access Mode 🕶 |
| 1 | 0 | 0 | | | 225 | | 722 | - |
| | dir. | | | | Contraction of the second s | | | |
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■ Go to "Channels" > "Task" > "Host Channel Settings".

| | sessionid=luv4aoprisat3x68pczpj | ewd | 오 - Ć (@ SANWatch | * | | _ □ _ × |
|---|--|--|-------------------|---|---------------------------|--------------------------------|
| System Settings Language About | ıt | | | 🍰 Replication Manager | 🕜 Help | O Data Reload |
| E Device | Channel List | | | | | |
| Device List | Rest Host | | | | | |
| 🕀 🛻 DS 1016GE | Channel ID + | Data Rate 🔺 | Max Speed + | Current Speed + | Status * | |
| Logical Volumes Logical Volume 1 Logical Drives | Channel 0 | Auto | 1.0 Gbps | - | Link Down | ^ |
| Dive 1 | Channel 1 | Auto | 1.0 Gbps | The link has been negotiated to 100.0 Mbps, | Link Up | |
| Partition 1 | Channel 2 | Auto | 1.0 Gbps | 7 | Link Down | ~ |
| Data Hosts | Expansion | | - | | | |
| | Channel ID | | Speed | Status | | |
| | | | | | | , |
| | Tesk Hot Channel 5 Configure the de Scan Port Inter Vew the information | retings and controller data rate and controller IDs. 20200 on of all ports. | | Check Connection Status Oracia abcome loss connection or expansion calling and Charmed LiO Derivativation Charmed LiO Derivativation Vew the read-write I/O performance in real time. | ists them, | |
| Total connected device(s): 1 Disconner | ted: 0 🛕 Total Error event/s): 0 | warming: 208 | | DS 1016GE | Controller time: 2016-8-2 | 2 14:55 48 Uptime: 14:01 29 43 |

■ Select the channel just created, and then press "Configure".

| hannel 0 Channel 1 | Channel 2 | Channel 3 | Channel 4 | Channel 5 | | |
|----------------------------|-------------|----------------|------------|-----------|-----------|--|
| Parameters | | | ID | | MCS Group | |
| Current Data Rate: | The link ha | as been negoti | | | | |
| Current Transfer Bandwidth | iscsi | | v 0 | | 0 | |
| Pv4 Type: | Static | | 1 | $\hat{}$ | • 1 | |
| SlotA IPv4 IP Address: | 192.168.88 | .36 | 2 | | 02 | |
| Pv6 Type: | Disabled | | 3 | | <u> </u> | |
| SlotA IPv6 Address: | | | 4 | | | |
| Configure | | | 5 | | | |
| | | | 6 | | | |
| | | | 7 | Ť | | |
| | | | | | | |

Setup the IP address, subnet mask and default gateway for this channel. Press "OK" and "Yes".

| | ж |
|--------|---------|
| rface. | |
| | |
| | |
| | |
| ОК | Cancel |
| × | |
| | |
| | erface. |

After finishing, clicking the channel tab, you will see the IP address has been assigned to this channel.

| Parameters ID MCS Group Current Data Rate: The link has been negoti 0 0 Current Transfer Bandwidth: ISCSI 0 0 IPv4 Type: Static 1 0 SlotA IPv4 IP Address: 172.30.10.211 2 0 IPv6 Type: Disabled 3 3 SlotA IPv6 Address: 4 5 0 | Parameters | | | | |
|--|-----------------------------------|--------------------|-----|---|-----------|
| Current Data Rate: The link has been negoti Current Transfer Bandwidth: iSCSI IPv4 Type: Static SlotA IPv4 IP Address: 11 IPv6 Type: Disabled SlotA IPv6 Address: 4 Configure 5 | ratameters | | | | MCS Group |
| Current Transfer Bandwidth: iSCSI 0 IPv4 Type: Static 1 SlotA IPv4 IP Address: 172.30.10.211 2 IPv6 Type: Disabled 3 SlotA IPv6 Address: 4 Configure 5 | Current Data Rate: The lin | k has been negoti. | | | |
| IPv4 Type: Static 1 0 1 SlotA IPv4 IP Address: 172.30.10.211 2 2 IPv6 Type: Disabled 3 3 SlotA IPv6 Address: 4 3 Configure 5 4 | Current Transfer Bandwidth: iSCSI | | • 0 | | 0 |
| SlotA IPv4 IP Address: 172.30.10.211 2 2 IPv6 Type: Disabled 3 3 SlotA IPv6 Address: 4 4 Configure 5 5 | Pv4 Type: Static | | 1 | | 1 |
| IPv6 Type: Disabled 3 3 SlotA IPv6 Address: 4 Configure 5 | SlotA IPv4 IP Address: 172.30 | .10.211 | 2 | | 02 |
| SlotA IPv6 Address: 4 Configure 5 | Pv6 Type: Disable | d | 3 | | ○3 |
| Configure 5 | SlotA IPv6 Address: | | 4 | | |
| | Configure | | 5 | | |
| 6 | | | 6 | | |
| 7 | | | 7 | × | |

3. Add iSCSI Storage to Linux-based NVR.

■ Go to NVR local server screen, "Setup" kecord"> "Storage".



■ Press "Setting".

| | | | | | Storag | e Manager | | | | × |
|-----|------|----------------|--------------------|--------------|----------------|--------------------|-------------|------------|----------------|----|
| Sto | rag | e Usage | | | | | | | | |
| U | Jsec | 1(77.07%) 284 | 19.92(GB),total 36 | 98.64(GB) | | | | | | ١ |
| Del | ails | | | | | | | | | |
| | | Disk Type | Logical Drive | RAID Level | Drive Size(GB) | Available Size(GB) | Online | Data Type | Enable/Disable | 11 |
| | | SAS | E | RAID 6 | 3698.64 | 848.724 | Yes | LOG, VIDEO | Enable | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | Information | | Delete | 1 |
| Adı | /and | ed Settings | | | | | | | | |
| [| Xisk | detection: Joi | n NVR Server dis | k allocation | | | | | Setting | 1 |
| | | | | | | | | | Close | |

■ Select "IP Storage" tab>"Add".

| | Advanced Settings | 3 | × |
|--|------------------------------|---------------|---|
| General IP Storage | NAS | | |
| Initiator Name | | | |
| iqn.1993-08.org.debian:01:a | 6e04c73cd8 | | |
| To authenticate targets using secret. | g CHAP, click CHAP to specif | y a CHAP CHAP | |
| Target Partols | | | |
| Host Address | Address | Port | |
| Add | Delete | sh Targets | |
| | | Close | |

Enter one iSCSI IP address.

Type the Host Address to setup your iSCSI: Enter the storage LAN IP address.

(For example, we set IP as 172.30.10.241.)

Data Address: Enter the storage Channel IP and port number.

(For example, we set IP as 172.30.10.211.)

| Add Ta | rget Portal | | × |
|--|-------------|----|--------|
| Type the Host Address to config your ISCSI | | | |
| 172.30.10.241 | | | |
| Data Address | Port | | |
| 172.30.10.211 | 3260 | | |
| | | ОК | Cancel |

■ Click "Targets".

| Advanced Settings | | | | | | | |
|--|---|------------|---|--|--|--|--|
| General IP Storage | VAS | | | | | | |
| Initiator Name | | | | | | | |
| iqn.1993-08.org.debian:01:a | 6e04c73cd8 | | | | | | |
| To authenticate targets using secret. | To authenticate targets using CHAP, click CHAP to specify a CHAP CHAP | | | | | | |
| Target Partols | | | | | | | |
| Host Address Address Port | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Add | Delete Refre | sh Targets | | | | | |
| | | Close | 1 | | | | |

Click "Connect". After connected, the status will change to "Connected", and then press "Close" to exit.

| IP S | torage | × |
|---|---------------------------------|---------------|
| Description | | |
| select Login to access the storage devices for that | larget. | |
| If a target is persistent, the initiator will attempt to re | econnect to it each time the NV | R is rebooted |
| Targets: | | |
| Name | Status | Connect |
| | | Advanced |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | Close |

| IF | Storage | × |
|---|--------------------------------------|-------------|
| Description | | |
| select Login to access the storage devices for I | hat target. | |
| If a target is persistent, the initiator will attempt | to reconnect to it each time the NVR | is rebooted |
| Targets: | | |
| Name | Status | Disconnect |
| 191 2000 11) care reforment that out 70000 . | aredet | Advanced |
| _ | | |
| | | |
| | | |
| | | |
| | | |
| | | Close |

■ Select "General" tab>"Check".

| | Advanced Se | ttings | × | | | |
|---|-------------|----------------------|---|--|--|--|
| General IP Storage Raid | NAS | | 1 | | | |
| Free Space | 3814435MB | | Ш | | | |
| RAID Level | Non-Raid | Ŧ | Ш | | | |
| | | Create Logical Drive | | | | |
| Check Storage | | | | | | |
| SAS/ISCSI/HBA, runtime unplug again brain, thro. In check storage resumed, to avoid NVR Server restart, (description) | | | | | | |
| | | Close | | | | |

After finishing all steps, close the window. In Storage Manager, you will see from the list that iSCSI has been added to NVR system.

| | | | | | Storage | e Manager | | | > |
|--|---------------------|-----------------|------------------|--------------|----------------|--------------------|------------|-----------|----------------|
| SI | Storage Usage | | | | | | | | |
| Used(54.74%) 3034.92(GB),total 5544.60(GB) Details | | | | | | | | | |
| | | Disk Type | Logical Drive | RAID Level | Drive Size(GB) | Available Size(GB) | Online | Data Type | Enable/Disable |
| | 1 | 545 | | | | | | | |
| | 2 | ISCSI | F | RAID 6 | 1845.95 | 1660.96 | Yes | NO | Enable |
| A | e au tvan | ced Settings | | | | | Informatio | n Edit | Delete |
| | Disk | detection: Joir | n NVR Server dis | k allocation | | | | | Setting |
| | | | | | | | | | Close |