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# **How to setup schedule backup to iSCSI storage with EonOne for Linux NVR**

**Application Notes**

**Version <1.0>**



Technical Support Team

## Preface

Surveon Linux NVR can backup and archive the recorded video to iSCSI storage. Local and remote backups are available for easy expansion of video retention period. Archiving with playback function is supported to ensure data integrity, improve operational efficiency, and simplify disaster-recovery operations.

In this application guide we are going to introduce how to setup the iSCSI storage device, how to add iSCSI device into Linux NVR, and how to setup schedule backup for Linux NVR.

Our agenda are as follows:

1. Setup iSCSI storage.
2. Add iSCSI storage into Linux NVR.
3. Setup schedule backup for Linux NVR.

Appendix : About schedule Task mode.

### Note:

1. This procedure only applies to Linux NVR 3.2 or later version.
2. One Linux NVR can only link to one iSCSI device and only use for one purpose (Only used for storage or for backup).
3. If iSCSI storage is full, the oldest record will still be overwritten.

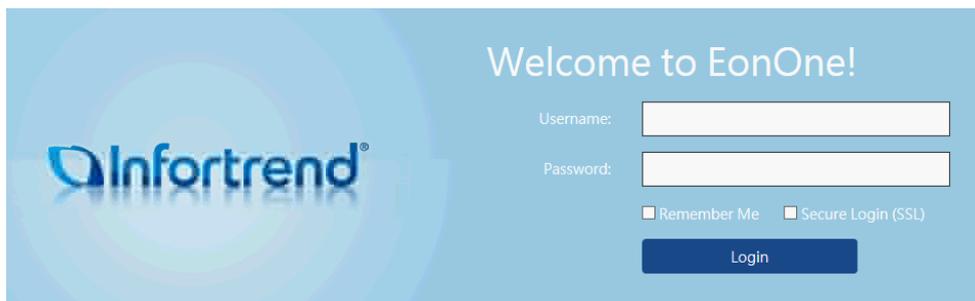
# 1. Setting iSCSI storage with EonOne

## 1.1. Login EonOne

(1) Double click the icon.

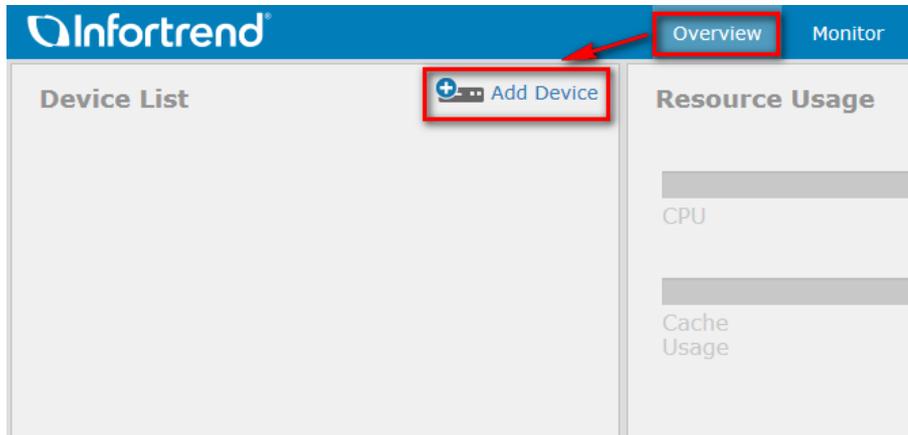


(2) Default login account / password: admin / admin

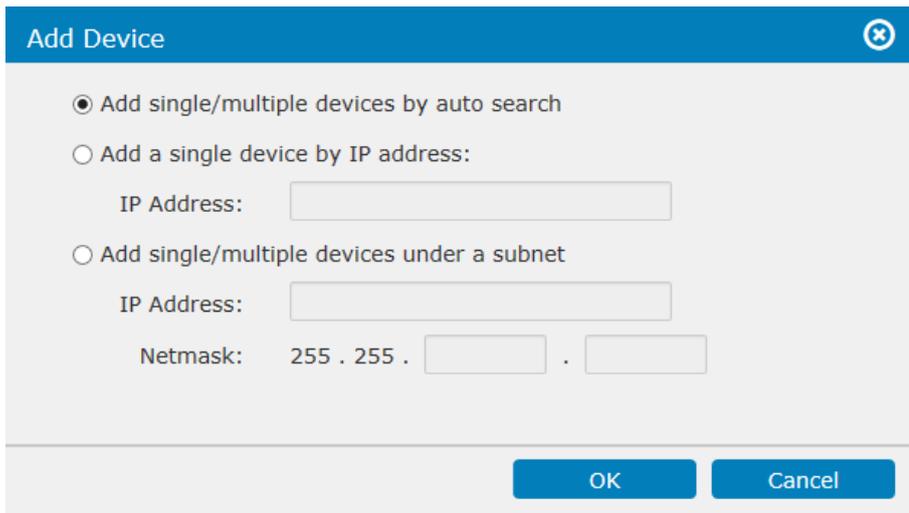
The image shows the EonOne login page. It features the Infortrend logo on the left and a login form on the right. The form includes fields for 'Username:' and 'Password:', checkboxes for 'Remember Me' and 'Secure Login (SSL)', and a 'Login' button. The page has a blue header with the text 'Welcome to EonOne!'.

## 1.2. Add Storage

(1) Press "Add Device".

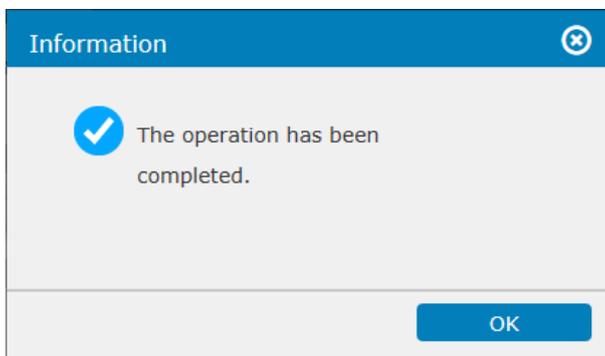


(2) Select an option to add device and press "OK".



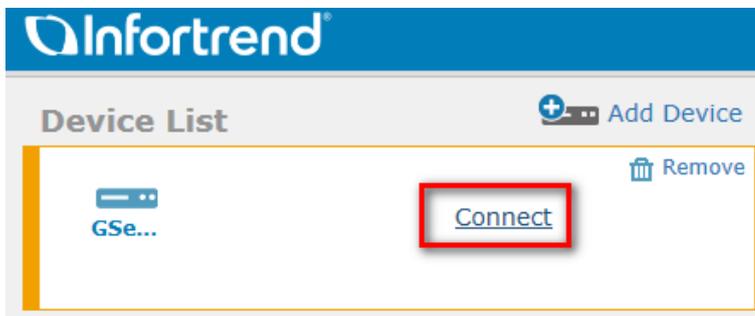
The 'Add Device' dialog box features a blue header with the title 'Add Device' and a close button. It contains three radio button options: 'Add single/multiple devices by auto search' (selected), 'Add a single device by IP address:', and 'Add single/multiple devices under a subnet'. The second option includes an 'IP Address:' text box. The third option includes an 'IP Address:' text box and a 'Netmask:' field with a pre-filled '255 . 255 .' and two empty boxes for the remaining octets. At the bottom right, there are 'OK' and 'Cancel' buttons.

(3) If the operation succeeded, it will show “The operation has been completed”.



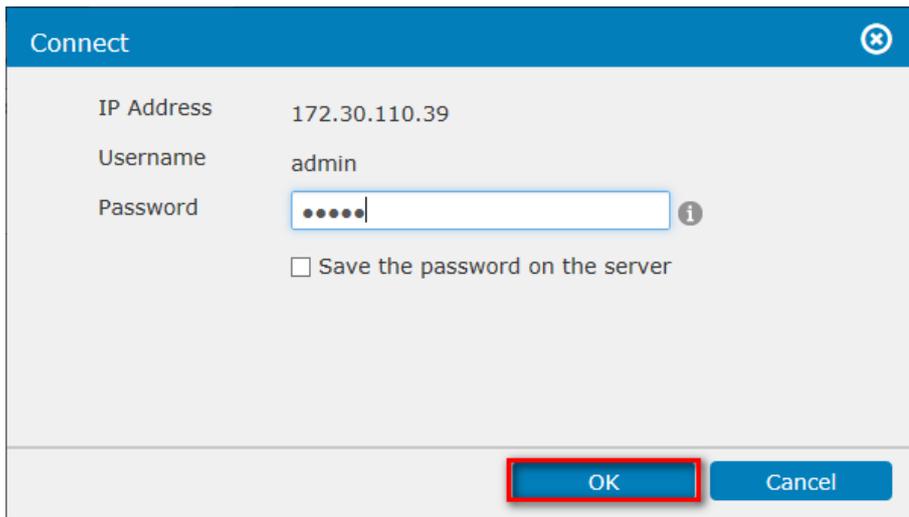
The 'Information' dialog box has a blue header with the title 'Information' and a close button. It displays a blue checkmark icon followed by the text 'The operation has been completed.' At the bottom right, there is an 'OK' button.

(4) Please press “Connect”.



The Infortrend interface shows the 'Device List' section. At the top left is the Infortrend logo. To the right is an 'Add Device' button with a plus icon. Below the header, there is a table with one device entry. The device name is 'GSe...' with a menu icon to its left. To the right of the device name is a 'Connect' button, which is highlighted with a red rectangular box. Further to the right is a 'Remove' button with a trash icon.

(5) Please enter password and press “OK”. (Default password is admin.)

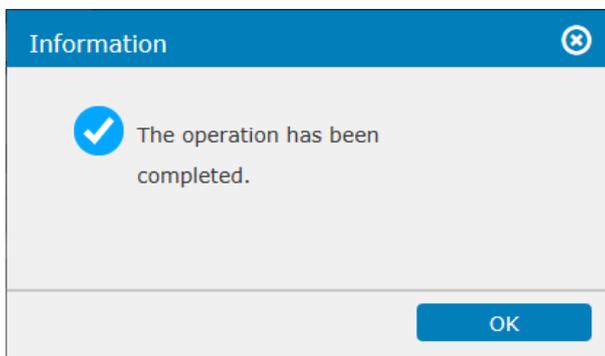


The image shows a 'Connect' dialog box with a blue header and a close button in the top right corner. It contains the following fields and options:

- IP Address: 172.30.110.39
- Username: admin
- Password: A text box with six dots, followed by an information icon (i).
- Save the password on the server: An unchecked checkbox.

At the bottom right, there are two buttons: 'OK' (highlighted with a red border) and 'Cancel'.

(6) If the operation succeeded, it will show “The operation has been completed”.



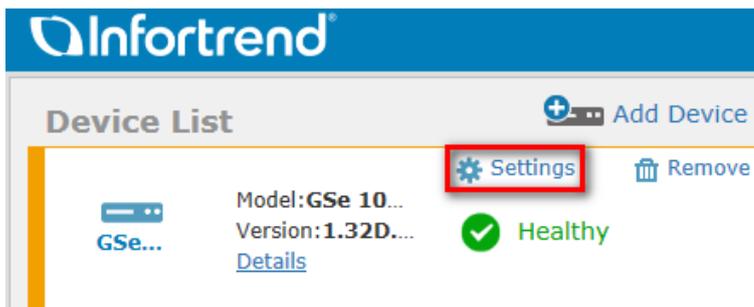
The image shows an 'Information' dialog box with a blue header and a close button in the top right corner. It contains the following content:

- A blue checkmark icon.
- The text: "The operation has been completed."

At the bottom right, there is an 'OK' button.

### 1.3. Setting channel IP and channel type

(1) Please press “Settings”.

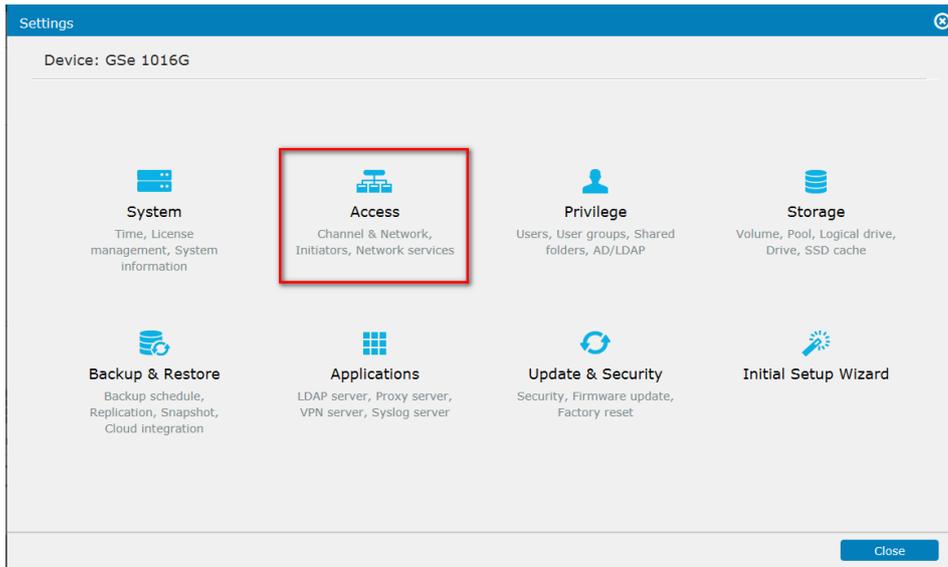


The image shows the Infortrend 'Device List' interface. It features a blue header with the Infortrend logo and an 'Add Device' button with a plus icon. Below the header, there is a table of devices:

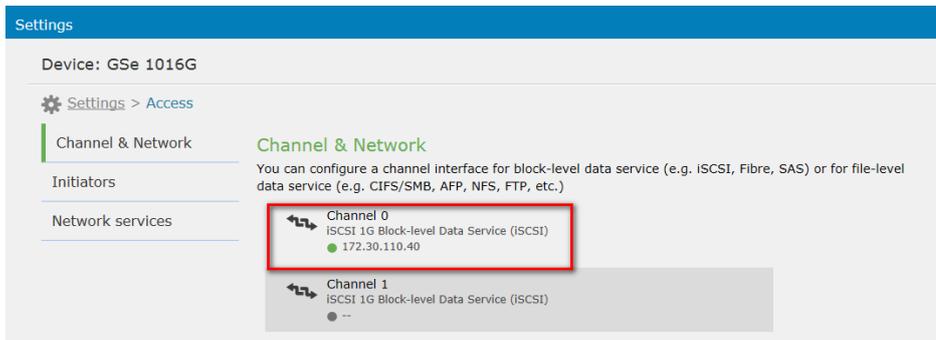
Device Name	Model	Version	Status	Actions
GSe...	Model: GSe 10...	Version: 1.32D...	Healthy	Settings, Remove

The 'Settings' button for the first device is highlighted with a red border. The 'Healthy' status is indicated by a green checkmark icon.

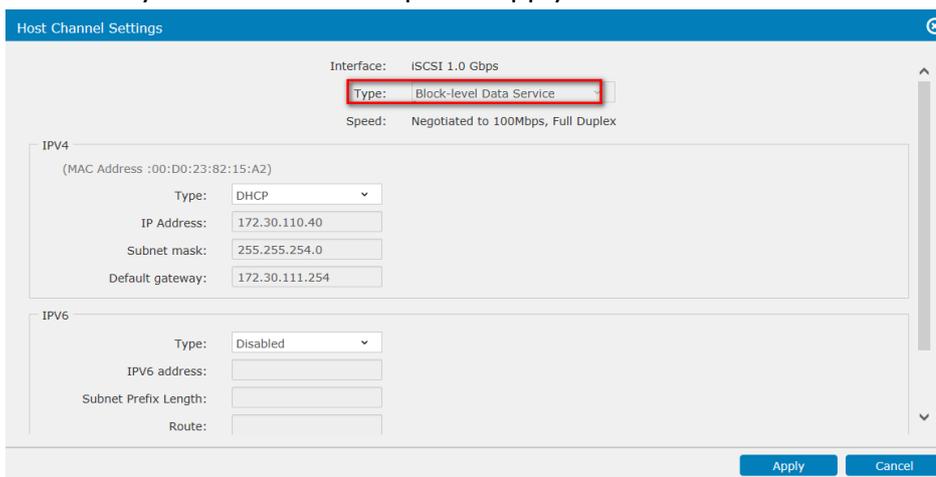
(2) Please press “Access”.



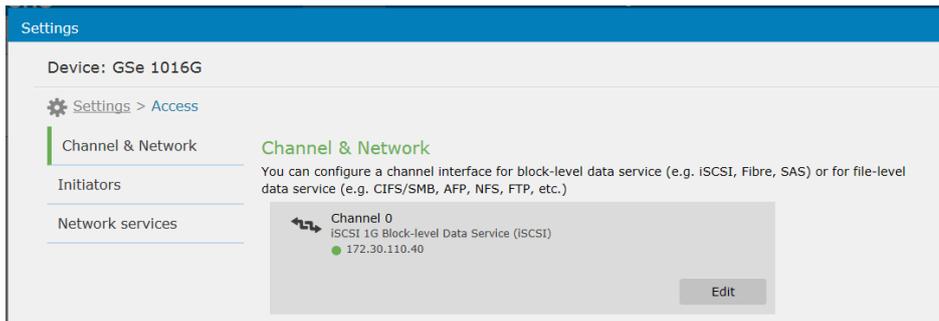
(3) Press “Channel & Network” and select Channel (Ethernet port) used to connect NAS and press “Edit”.



(4) Please select “**Block-level Data Service**”.  
Please set your channel IP and press “Apply”.



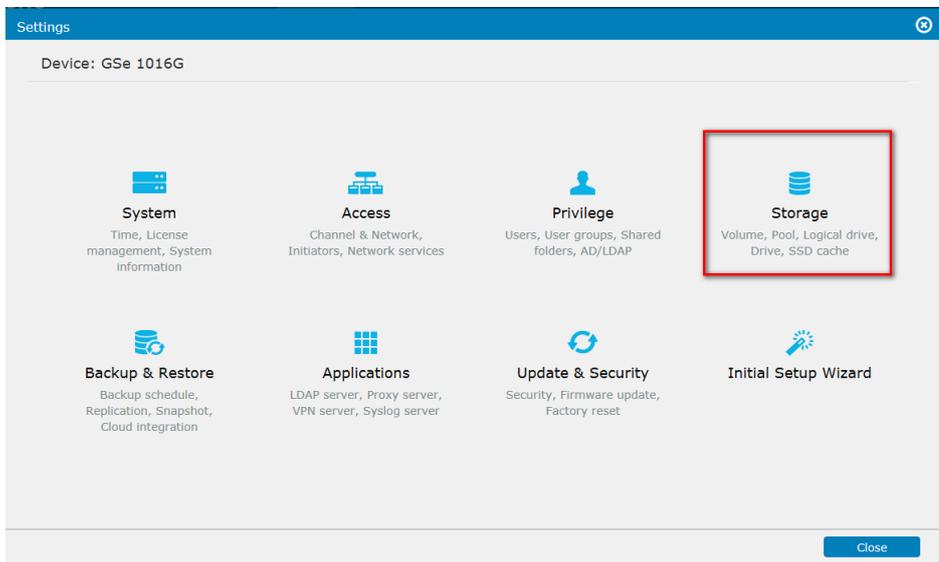
(5) Channel status : “Block-level”



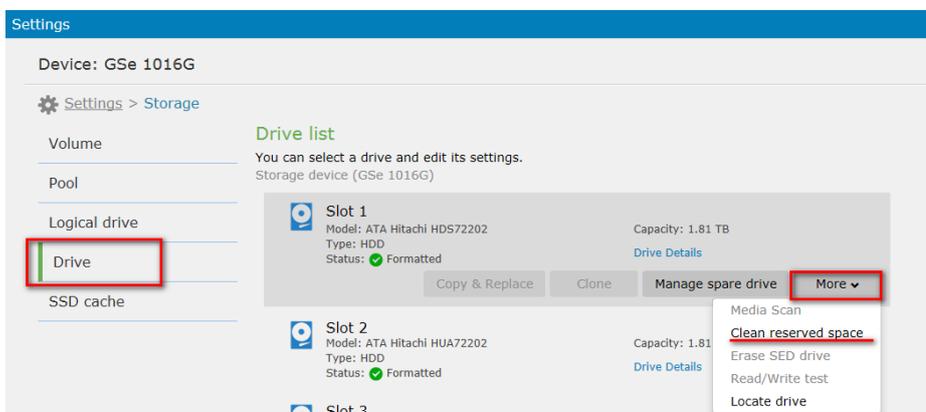
## 1.4. Create Pool, volume and LAN map

### 1.4.1. Clean HDD

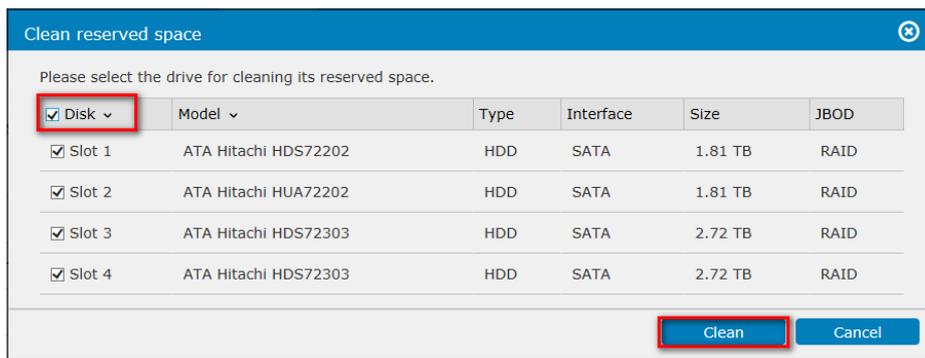
(1) Please press "Storage".



(2) Please press "Drive", go to "More" scroll down list and choose Clean reserved space.

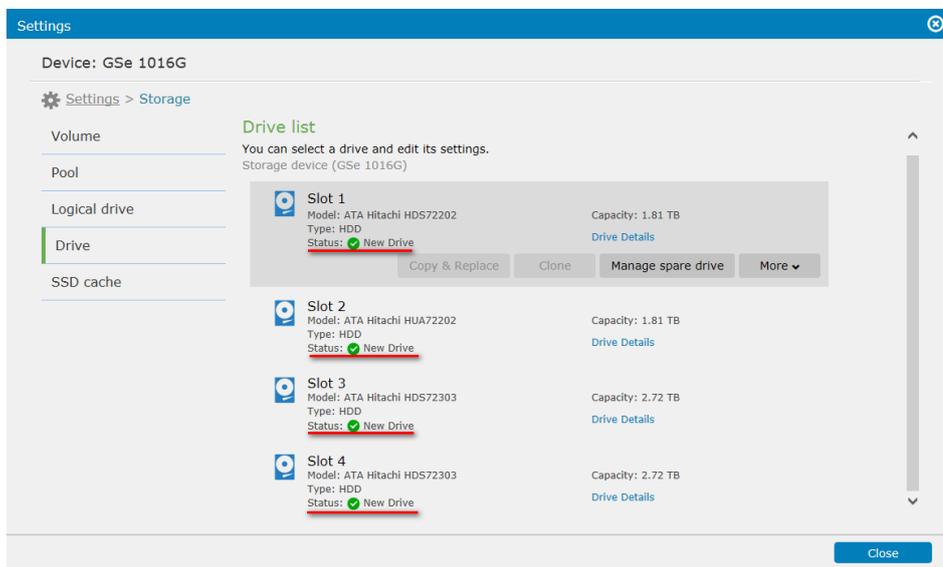
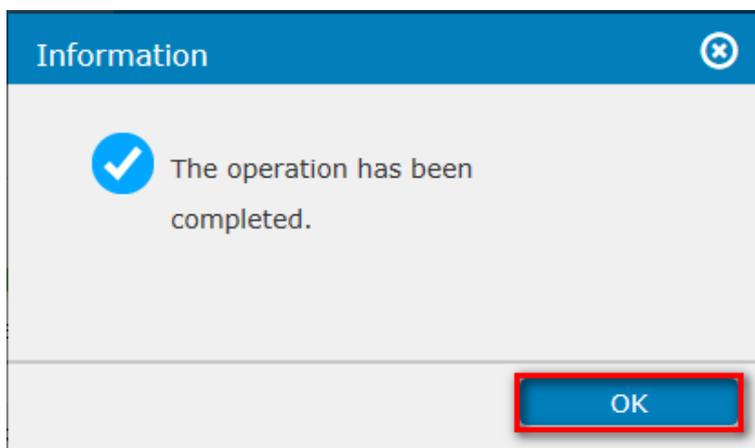


(3) To clean the reserved space, please select the drive(s).



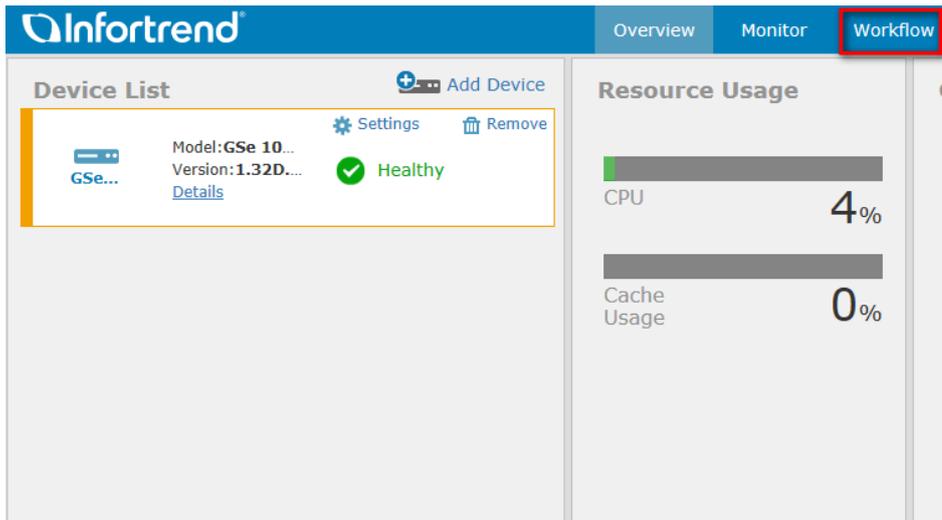
(4) If the operation succeeded, it will show “The operation has been completed”.

Drive status: New Drive

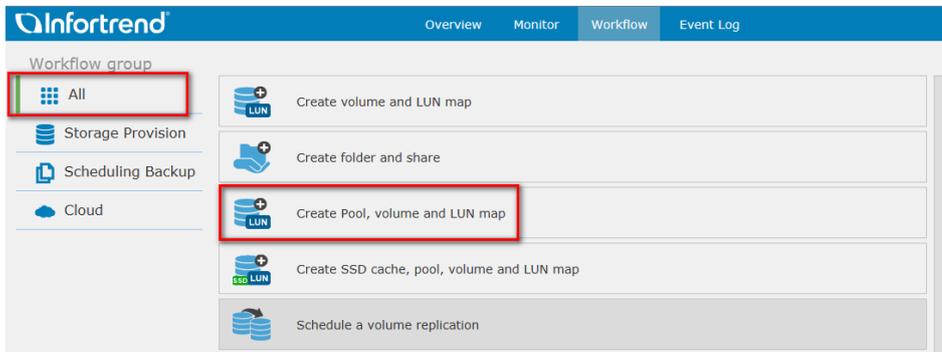


## 1.4.2. Create Pool, volume and LAN map

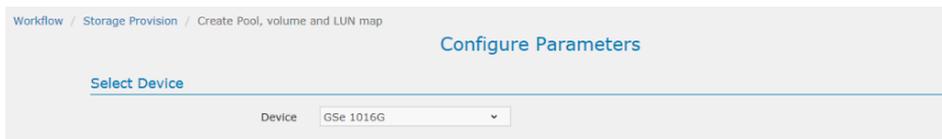
(1) Please press “Workflow”.



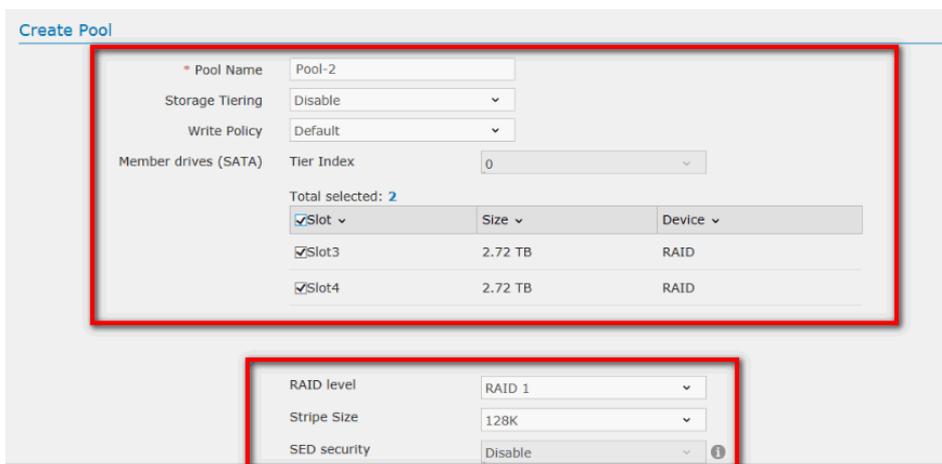
(2) Please select All under Workflow group, and then press “Create Pool, volume and LUN map”.



(3) Please select drive.



(4) Please select drives and select the configuration of the pool (RAID).



(5) Configure the parameters of the Volume.  
Select volume size.

**Create Volume**

\* Pool: Pool-2

Quantity: 1

Volume Name: Volume+index

Enable Thin Provisioning

\* Volume Size: 2.7 TB (Maximum: 2.7 TB)

Minimum reserved space: 0 TB

Initialize Volume After Creation

Enable File System ⓘ

(6) Please select volume.

Please select “Customize host LUN mapping configurations”.

Please select Channel. (refer to 1.3.3~1.3.5)

**Host LUN mapping**

Select Volume:  Refer to previous setting

\* Pool: Pool-2

\* Volume: Volume1

Mapping:  Create a host LUN mapping set automatically

Customize host LUN mapping configurations

Channel 1 ID:----

Channel 0 0

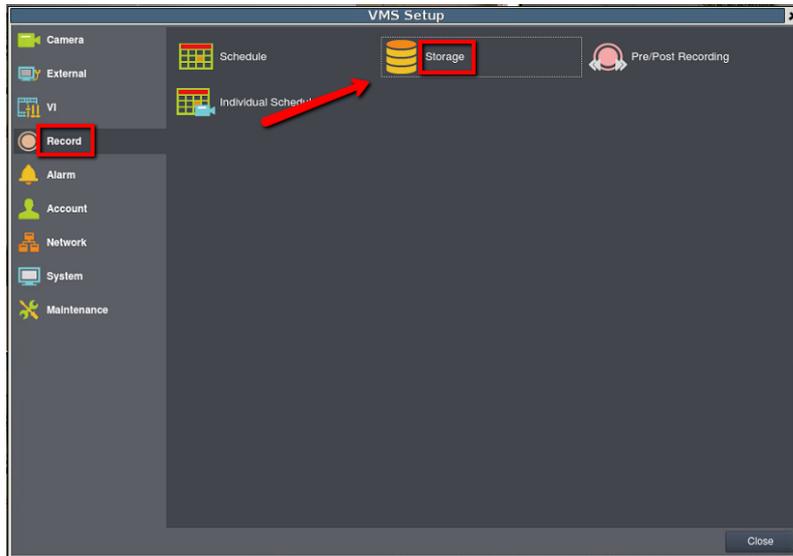
Customize the LUN number No:----

Use Extended Host LUN Functionality

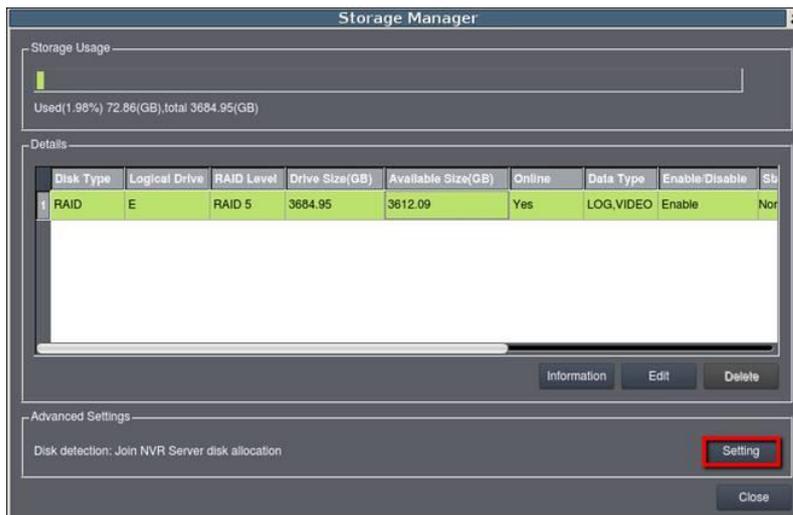
Back to Workflow Selection | Reset | Execute

## 2. Add iSCSI storage into Linux NVR.

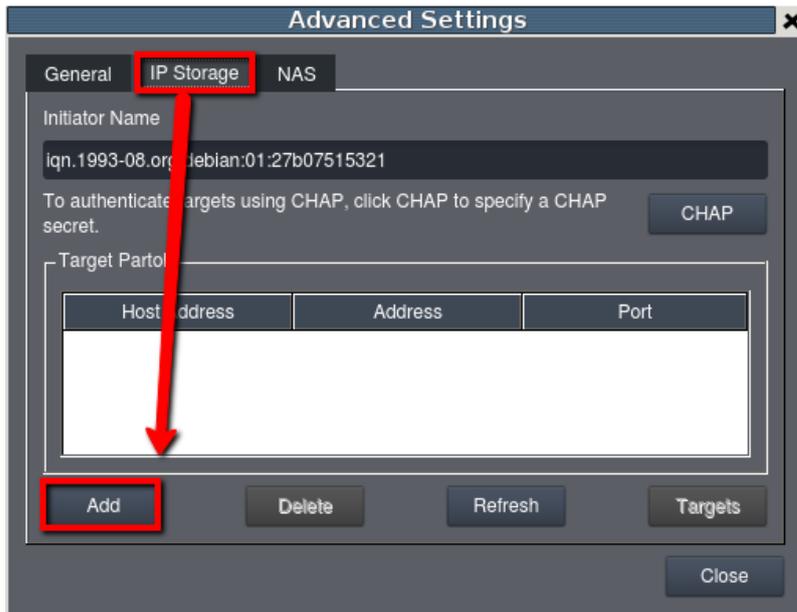
(1) Please enter Record / Storage.



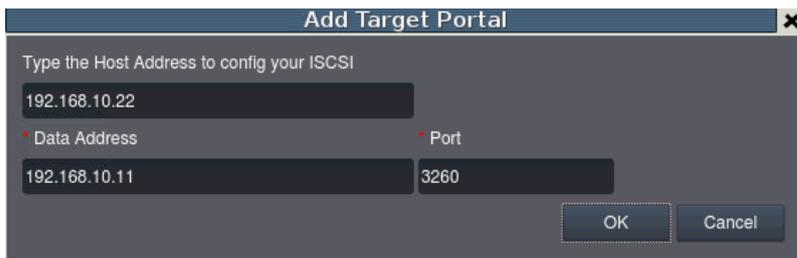
(2) Press "Setting".



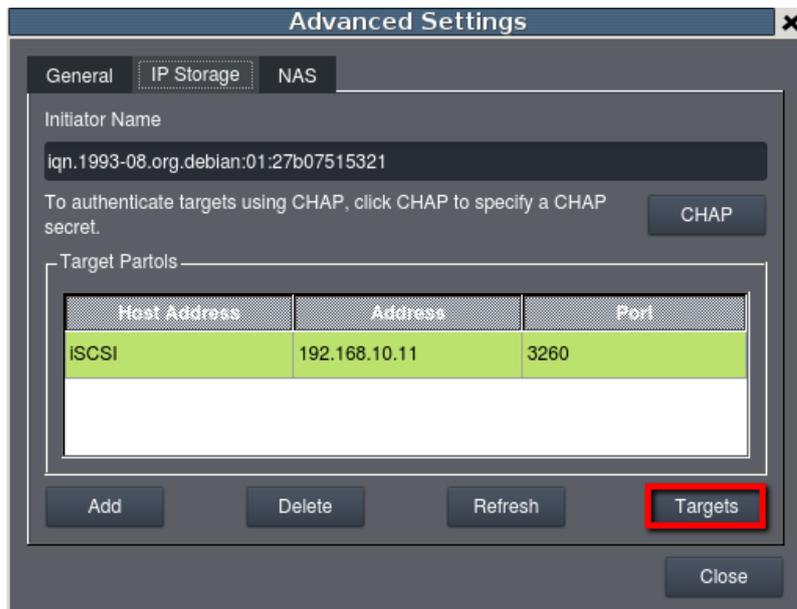
(3) Please choose IP Storage / Add.



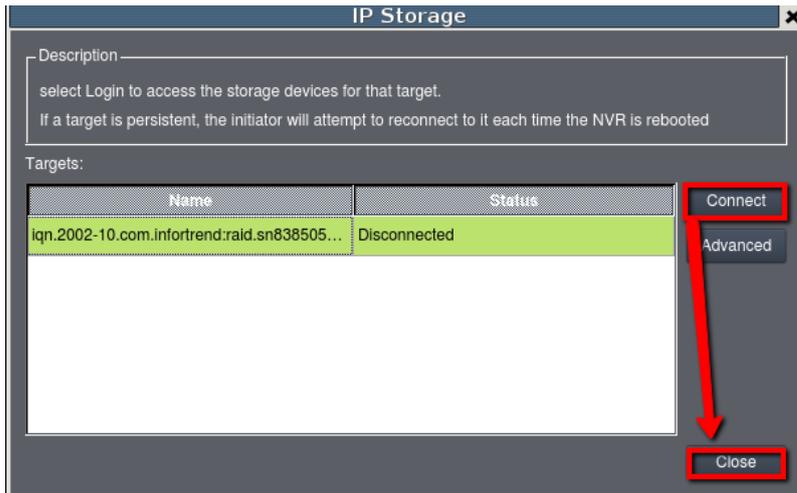
- (4) Host Address : Storage IP  
Data Address : Channel IP



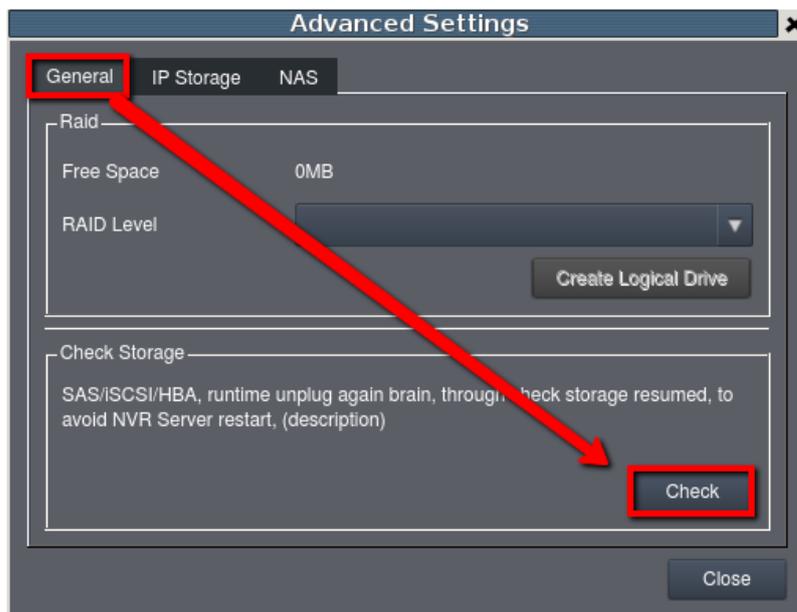
- (5) Please Choose "Targets".



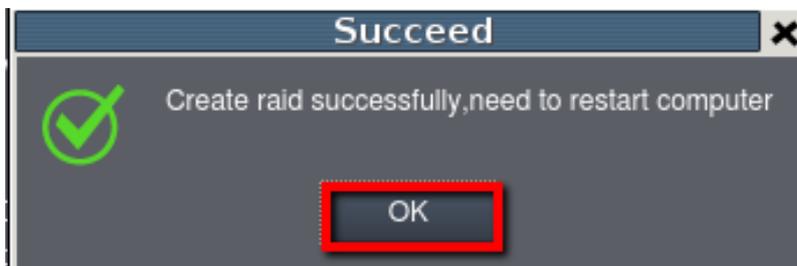
- (6) Please press "Connect".  
Please press "Close", after the status show "Connected".



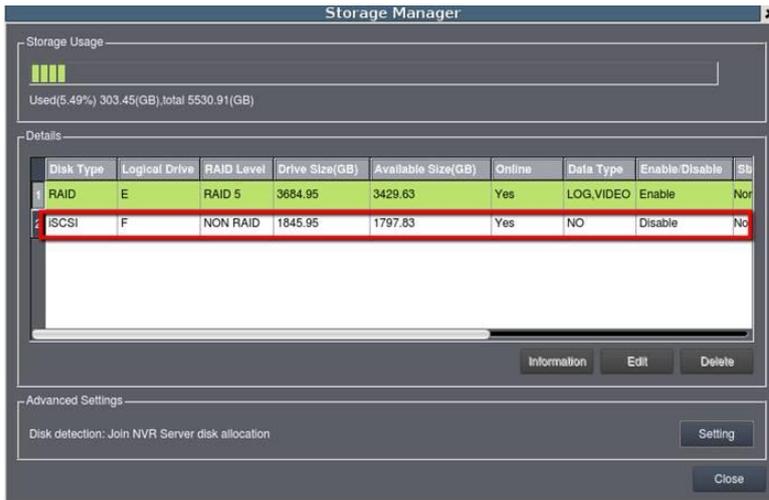
(7) Please press General / Check.



(8) Please press "OK" and NVR will restart.

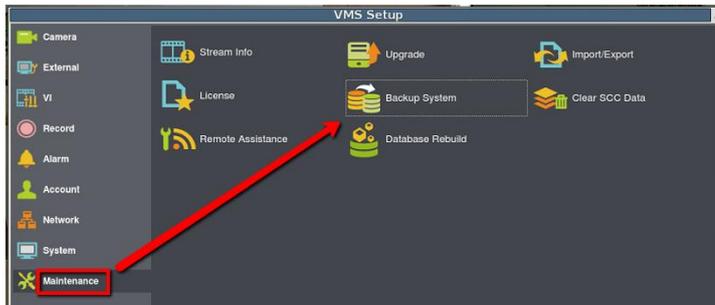


(9) Please enter Setup / Record / Storage again.  
Confirm if iSCSI is added successfully.

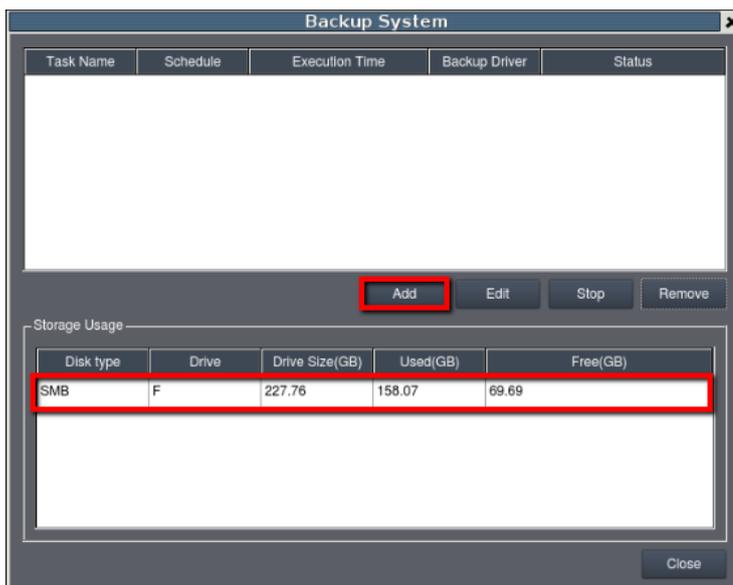


### 3. Setup schedule backup for Linux NVR

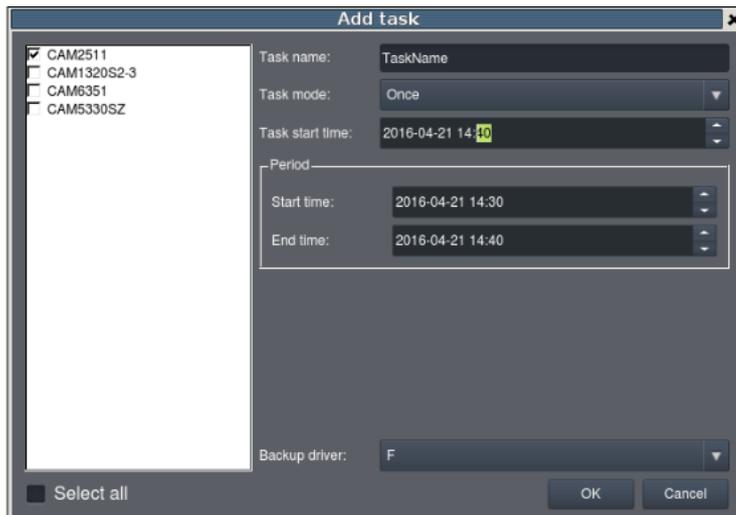
(1) Please enter Maintenance / Backup System



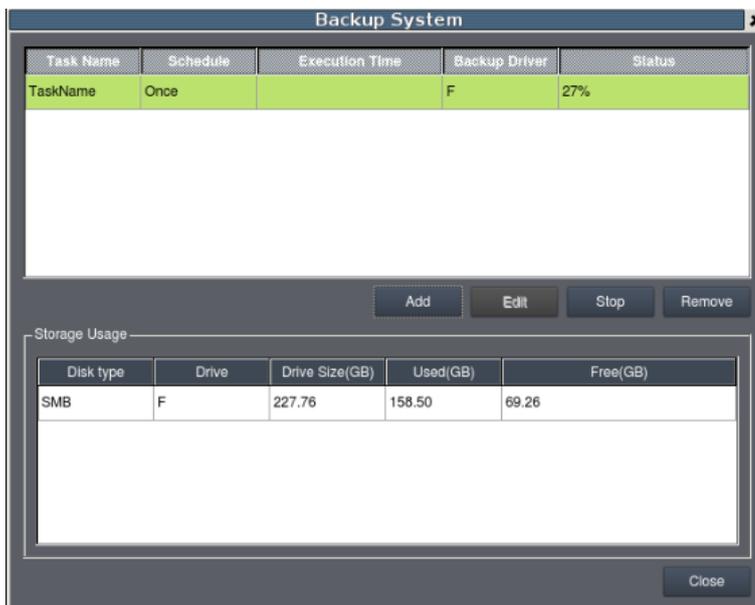
(2) There will be a new NAS device on the list. Press "Add" to create a new schedule.



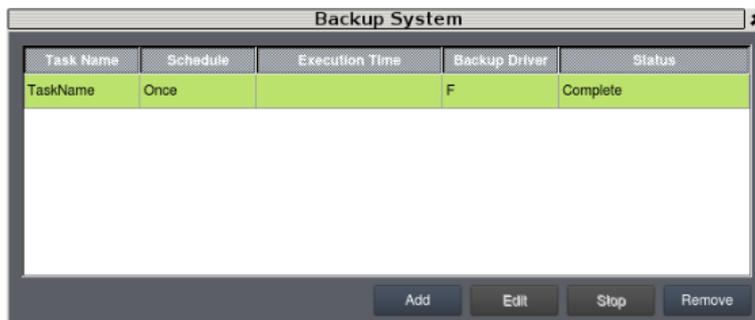
(3) In the schedule backup, you will be able to select camera and backup schedule.



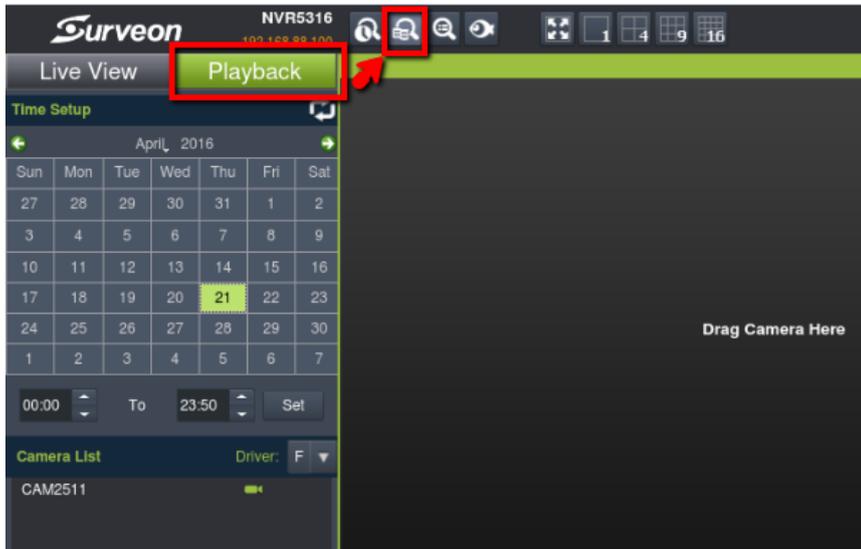
(4) When the system starts to backup, the task status will show the percentage for backup process.



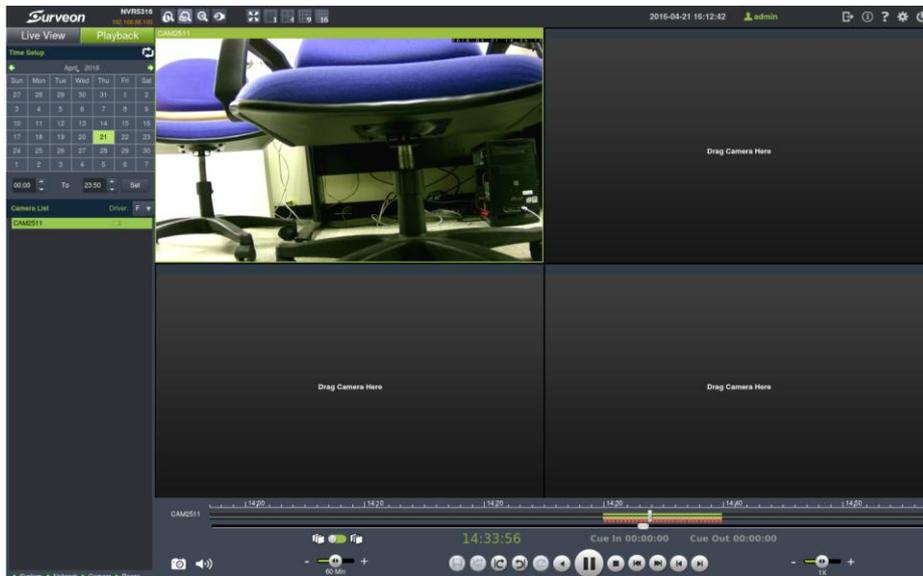
(5) When backup is finished, it will show "Complete".



(6) You can check your backup video by pressing Playback / Backup Search.



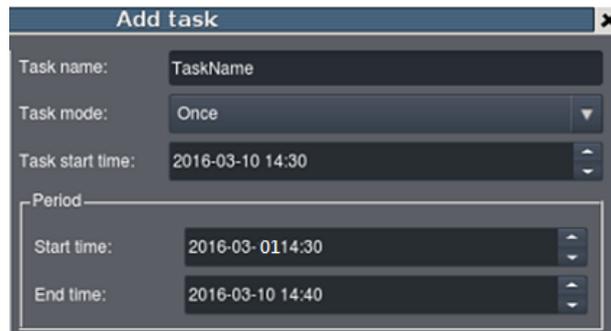
(7) Select your backup time and you can see your backup video.



## Appendix: About schedule task mode:

There are three modes that you can choose for the schedule task: *once*, *once a day*, *once a week* and *once a month*.

**Once:** it will only backup once, but customers can backup any particular date or time by period.



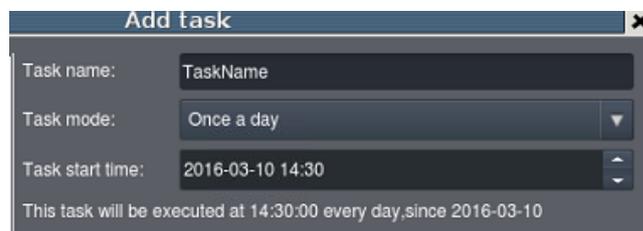
The screenshot shows a dialog box titled "Add task" with the following fields:

- Task name: TaskName
- Task mode: Once
- Task start time: 2016-03-10 14:30
- Period section:
  - Start time: 2016-03-01 14:30
  - End time: 2016-03-10 14:40

Example:

- Task time is set at 2016-03-10 14:30, and the period is set between 2016/3/1 14:30 – 2016/3/10 14:40. When it reaches the task time, the system will only backup record from 2016/3/1 14:30 – 2016/3/10 14:40. (Backup only once)

**Once a day:** When it reaches the task time, it will backup record for the previous day.



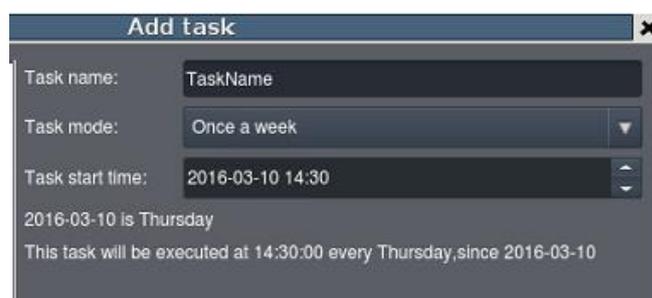
The screenshot shows a dialog box titled "Add task" with the following fields:

- Task name: TaskName
- Task mode: Once a day
- Task start time: 2016-03-10 14:30
- Below the fields, it says: "This task will be executed at 14:30:00 every day,since 2016-03-10"

Example:

- Task time is set at 2016-03-10 14:30, when it reaches the task time, the system will backup record from 2016-03-09 14:30 to 2016-03-10 14:30. (Backup one day)
- Every day at 14:30, it will backup record from one day ago.

**Once a week:** When it reaches the task time, it will backup record for the previous week.



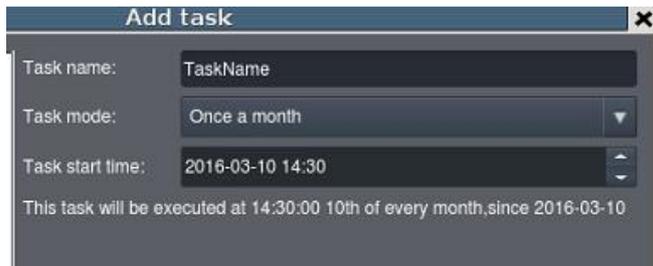
The screenshot shows a dialog box titled "Add task" with the following fields:

- Task name: TaskName
- Task mode: Once a week
- Task start time: 2016-03-10 14:30
- Below the fields, it says: "2016-03-10 is Thursday" and "This task will be executed at 14:30:00 every Thursday,since 2016-03-10"

Example:

- Task time is set at 2016-03-10 14:30, when it reaches the task time, the system will backup record from 2016-03-03 14:30 to 2016-03-10 14:30. (Backup one week)
- Every Thursday at 14:30, it will backup record for the previous week.

**Once a month:** When it reaches the task time, it will backup record for the previous month.



The screenshot shows a dialog box titled "Add task" with a close button (X) in the top right corner. It contains three input fields: "Task name:" with the value "TaskName", "Task mode:" with a dropdown menu showing "Once a month", and "Task start time:" with the value "2016-03-10 14:30". Below these fields, there is a preview text: "This task will be executed at 14:30:00 10th of every month,since 2016-03-10".

- Task time is set at 2016-03-10 14:30, when it reaches task time, the system will backup record from 2016-02-03 14:30 to 2016-03-10 14:30. (Backup one month)
- The 10<sup>th</sup> day of every month at 14:30, it will backup record for the previous month.