How to set up schedule backup to NAS in Linux NVR

Application Notes

Version <1.0>



Preface

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

In this application guide we are going to introduce 3 steps: how to setup the NAS Folder, how to add NAS into Linux NVR, and how to schedule backup for Linux NVR.

The topics are as below:

- 1. Setup NAS Folder.
- 2. Add on NAS into Linux NVR.
- 3. Schedule backup for Linux NVR.

Appendix : What is schedule Task mode?

Note:

- 1. This procedure is only applied on Linux NVR **3.1.0.A04** or later version.
- 2. One Linux NVR can only link one NAS device or one iSCSI device at most.
- 3. NAS storage is only for backup purpose (Linux NVR can't record in NAS).
- 4. When NAS storage space is full, the oldest record will be overwritten, even the backup record to NAS storage is already set up.

1. Setting up NAS Folder

- Create a new folder in a Windows-based PC.
- Right click the folder and select Properties.

			Open					
			Share with					
	te		Restore previous versions					
			Include in library	•				
		1	Add to archive					
		1	Add to "test.rar"					
		1	Compress and email					
		1	Compress to "test.rar" and email					
		٩	True Image 🔸					
			Send to	•				
			Cut					
			Сору					
			Create shortcut					
			Delete					
			Rename					
0			Properties					

■ In the Sharing label, press "Advanced Sharing...".

📜 test Properties 📃 🗾
General Sharing Security Previous Versions Customize
Network File and Folder Sharing
test Shared
Network Path: \\FAE-NB\Users\Alministrator\Desktop\test
Share
Advanced Sharing
Set custom permissions, the ate multiple shares, and set other advanced sharing options.
Note: Starting
Password Protection
People must have a user account and password for this computer to access shared folders.
To change this setting, use the <u>Network and Sharing Center</u> .
OK Cancel Apply

■ Enable Share this folder and press "Permissions".

Advanced Sharing	×
Share this fol	der
Settings	
Share name:	
test	
Add	Remove
Limit the num	per of simultaneous users to: 20 🛬
Comments:	
Permission	s Caching
	OK Cancel Apply

■ Enable Full Control Permissions for Everyone and press "OK".

1	Permissions for test		×
Γ	Share Permissions		
	Group or user names:		
	Steryone		
		Add	Remove
	Permissions for Everyone	Allow	Deny
	Full Control	V	
	Change	V	
	neau	V	
	Learn about access control and permis	sions	
	ОК	Cancel	Apply

■ Press "OK" to save these settings.

Advanced Sharing
Chare this folder
Second
share name:
Add Remove
Limit the number of simultaneous users to: 20
Community
Comments:
Permissions Caching
OK Cancel Apply

• Copy the Network Path or check the computer's IP address.

📜 test Properties 📃 🗾
General Sharing Security Previous Versions Customize
Network File and Folder Sharing
test Shared
Network Path: \\FAE-NB\test
Share
Advanced Sharing
Set custom permissions, create multiple shares, and set other advanced sharing options.
Advanced Sharing
Password Protection
People must have a user account and password for this computer to access shared folders.
To change this setting, use the <u>Network and Sharing Center</u> .
Close Cancel Apply

2. Add on NAS into Linux NVR.

■ Enter Record / Storage.

		VMS Setup	×
Camera	Schedule	Storage	Pre/Post Recording
External			(
VI	Individual Scherker		
Record			
🔶 Alarm			
🔔 Account			
A Network			
🧾 System			
💥 Maintenance			
			Close

■ Press "Setting".

			Stora	ige Manager				
Storage Usage	72.86(GB),total 360	84.95(GB)]	
Details				1		1		
Disk Type	E Logical Drive	RAID Level	Drive Size(GB)	Available Size(GB)	Online	Data Type	Enable Disable	Nor
					Inform	ation E	Edit Det	ste

■ Choose NAS then click Add.

		Adva	anced Setti	ngs	>
General	IP Storage	NAS			
	₽			Univer Lett	
			Add	Edit	Delete
					Close

Enter Computer's IP, login account and password.
Address: //IP Address/Folder name.

Configuration Variables								
Address	//192.168.88.122/456							
User Name	123							
Password	•••							
Drive Letter	F 🔻							
	OK Cancel							





■ After seeing your NAS folder shown on this window, choose "General".

		Adv	/anced	l Settir	ngs		:
General	IP Storage	NAS					
 □							
	IP				Driver Lette		
//192.16	8.88.122/456			F			l
							l
							l
							l
							l
				Add	Edit	Delete	l
						Close	
						Close	

Press "Check".

		Advanc	ed Settings	s 🕺
General	IP Storage	NAS		
Raid —				i
Free Sp	bace	0MB		
RAID L	evel			•
				Create Logical Drive
Check S	Storage			
SAS/iS(avoid N	CSI/HBA, runtime VR Server restar	e unplug agair t, (description))	heck storage resumed, to
				Check
				Close

After finishing all steps, it will request to restart the NVR. Press "OK". (NVR5316 didn't need to restart)



After reboot, go to Setup / Record / Storage again; make sure the NAS has been added successfully.

					Stora	ige Manager				>
г	Stor	age Usage —								
	Use	ed(12.17%) 25	52.43(GB),total 2	075.85(GB)						
	Deta	alls								
		Disk Type	Logical Drive	RAID Level	Drive Size(GB)	Available Size(GB)	Online	Data Type	Enable Disable	St
	1	RAID	E	RAID 5	1848.09	1773.73	Yes	LOG, VIDEO	Enable	Nor
	2	NAS	F	NON RAID	227.759	49.6875	Yes	NO	Enable	Nor
	Π									
										- 11
										. 11
										=1
							Inform	ation E	dit Delet	e
۲	Adva	anced Setting	1 5							
	Disł	k detection: J	oin NVR Server	disk allocation					Settin	g
Ľ									0	
									Ci	ose

3. Set up schedule backup for Linux NVR

■ Go to Maintenance / Backup System



There will be a new iSCSI device on the list. Click "Add" to create a new schedule.

		Backup	System			
Task Name	Schedule	Execution Tir	ne Back	up Driver	Statu	JS
			Add	Edit	Stop	Remove
- Storage Usage —						
Disk type	Drive	Drive Size(GB)	Used(GB)		Free(GB)	
SMB	F	227.76	158.07	69.69		

■ In schedule backup you can select camera and backup schedule.

Add task					
CAM2511 CAM1320S2-3 CAM6351 CAM6351 CAM5330SZ	Task name: Task mode: Task start time:	TaskName Once 2016-04-21 14: <mark>40</mark>	۲ •		
	End time:	2016-04-21 14:30 2016-04-21 14:40	:		
Select all	Backup driver:	F	Cancel		

When the system starts to backup, the Status will become "Running" and user can also see the percentage for backup.

		Backup	System			
Task Name	Schedule	Execution Th	ne Baci	up Driver	Stat	89
TaskName	Once		F		27%	
			Add	Edit	Stop	Remove
⊢ ^{Storage Usage} –						
Disk type	Drive	Drive Size(GB)	Used(GB)		Free(GB)	
SMB	F	227.76	158.50	69.26		
						Close

■ When backup is finished, it will show "Complete".

		Backup Sys	tem		×
Task Name	Schedule	Execution Time	Backup Driver	Status	
TaskName	Once		F	Complete	
	01				
					_ 1
					_ 1
					_
		Add	Edit	Stop Ren	nove

■ You can go to Playback and press Backup Search and check your backup video.

Surveon				NVR 93 169	5316	Q	A	Q,	0	X	4	9	16	
L	ive V	iew		Play	bacl	< - 1	1							
Time	Setup		-			ę								
٠		Ap	oriĻ 20			•								
Sun	Mon	Tue	Wed	Thu	Fri	Sat								
27	28	29	30	31										
3	4	5	6	7	8									
10	11	12	13	14	15	16								
17	18	19	20	21	22	23								
24	25	26	27	28	29	30								Drag Camera Here
1	2	3	4	5										
0:00	•		23	:50	S	et								
Came	ara List			D	tver:	FV								
CAM	2511			1										

■ Select your backup date & time then watch your backup video.



Appendix: What is schedule Task mode?

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

Ado	Add task					
Task name:	TaskName					
Task mode:	Once	•				
Task start time:	2016-03-10 14:30	÷				
Г ^{Period} ——						
Start time:	2016-03-0114:30	0				
End time:	2016-03-10 14:40	-				

Example:

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

Once a day: When task time comes, it will backup record for yesterday.

Ade	d task	×
Task name:	TaskName	
Task mode:	Once a day	•
Task start time:	2016-03-10 14:30	Ĵ
This task will be e	executed at 14:30:00 every day,since 2	016-03-10

Example:

- Task time is 2016-03-10 14:30. When the time comes, it will backup record from 2016-03-09 14:30 to 2016-03-10 14:30. (Backup one day)
- Also every day at 14:30, it will backup record from one day ago.

Once a week: When the task time comes, it will start to backup record for last week.

Ad	d task	×
Task name:	TaskName	
Task mode:	Once a week	•
Task start time:	2016-03-10 14:30	Ĵ
2016-03-10 is Th	ursday	
This task will be e	executed at 14:30:00 every Thursday,since	2016-03-10

Example:

- Task time is 2016-03-10 14:30. When the time comes, it will backup record from 2016-03-03 14:30 to 2016-03-10 14:30. (Backup one week)
- Also every Thursday at 14:30, it will start to backup record from one week ago.

Once a month: When the task time comes, it will backup record for last month.

Ado	Add task					
Task name:	TaskName					
Task mode:	Once a month					
Task start time:	2016-03-10 14:30	÷				
This task will be e	xecuted at 14:30:00 10th of every mo	nth,since 2016-03-10				

- Task time is 2016-03-10 14:30. When the time comes, it will backup record from 2016-02-03 14:30 to 2016-03-10 14:30. (Backup one month)
- Also every 10th at 14:30, it will start to backup record from one month ago.