

vinchin

Vinchin Backup & Recovery

Version 4.0

User Guide for OpenStack Backup



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1. Summary

1.1. Product Overview

Vinchin Backup & Recovery is an easy-to-use, secured and reliable virtual machine data protection software designed to support multiple hypervisors including VMware vSphere, Citrix XenServer, RedHat Virtualization and open-sourced KVM under different virtual environments. It is an image-based agentless backup product which can be seamlessly integrated with your existing virtualization environments.

Vinchin Backup & Recovery supports Web UI management which allows users to manage & monitor any of their backup/restore tasks on either PC, mobile or tablet device. Flexible backup schedules set by daily, weekly, monthly let the backup jobs run as scheduled without system manager. All you need to do is to pre-set the job schedule when first running the software. Meanwhile, the Retention Policy helps users "save the valid" and "delete the expired" backed up data, so as to ensure the continuous operation of the backup tasks and same time save data repository space. When a disaster occurs cause the damage of the virtual machines, you only need to choose the latest restore point and specify a target host to restore to, the virtual machines will be recovered to the pre-disaster status. To help the administrators monitor and review their backup & restore jobs, Vinchin Backup & Recovery supports current jobs view, history jobs review, system logs review and management etc.

1.2. Key Features

- High Compatibility: Supports VMware, XenServer, RedHat, OpenStack, Sangfor, H3C, Inspur and other open-sourced KVM / XenServer based hypervisors .
- Agentless Backup: No need to install any agent on guest OS, Vinchin Backup & Recovery system directly protects VMs on hypervisor-level, leads non-consumption of OS resources. Thus to reduce VM deployment and maintenance workload.
- Smart Backup Strategy: Flexible & smart backup strategies help to do backup & restore jobs as scheduled according to your actual demands in different scenarios.
 - Time granularity of full backup, incremental backup and differential backup can be set to minute-level. Which means your backup job can be automatically repeated every xxx hours/minutes/seconds.
 - Multiple VMs can be backed up and restored concurrently under virtual environments.
 - CBT and valid data comparison technology realizes valid data backup in VMs, and minimizes the backup time.
 - Use bank grade AES encryption to secure the transmission of VM backups. Also support data logic/physical isolation.
- LAN-Free Data Transfer: Using LAN-Free to backup and restore for VMware, XenServer and RHV under SAN environment helps speed up backup and recovery time, lower the production system load.

- Instant VM Recovery: Instant VM Recovery helps to recover TB sized VMs in 15 secs, all business recovery in 1 min, minimized the break-off time of critical businesses.
- Quick-verify Recovery Availability: Recovering the VM backups to Data Verification Area (which is isolated with Business Area) by Instant VM Recovery helps to quick-verify the availability of backed up data.
- Full VM Recovery: When any damage or mistaken-delete happens to the backed up VM, you can fully restore it from any backup point in time rather than just "the latest backup point".
- Live Migration: After instantly recovering, the VM can be synchronously migrated to the production area via virtualization platform live-migration or Vinchin Backup & Recovery's live migration function without effecting the normal operation of your business.

1.3. Platform Support

Vinchin Backup & Recovery supports for the following virtualization platforms:

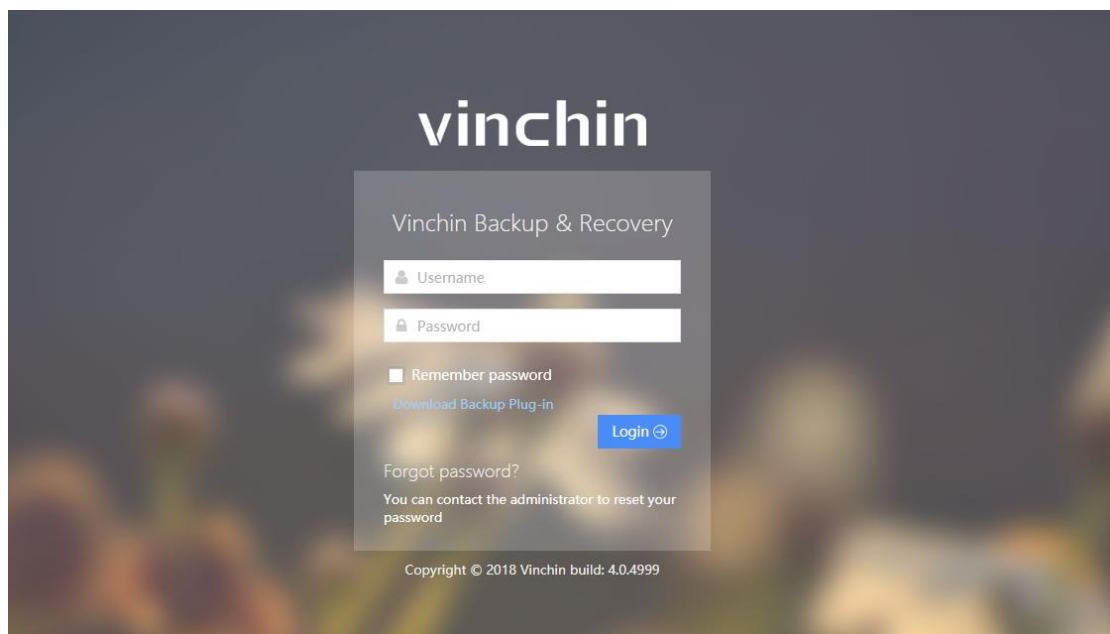
- VMware ESXI: 4.0 4.1 5.0 5.1 5.5 6.0 6.5 6.7 vSAN 6.x
- Citrix XenServer: 5.6 6.x 7.x
- RedHat RHV/Ovirt: 4.0 4.1
- OpenStack Mitaka
- Sangfor HCI: 5.x
- H3C CAS: CAS 3.0 E0303/E0306
- Inspur InCloud Sphere: 4.0 4.5

1.4. System Login

Deploy the Vinchin Backup & Recovery in your virtual environment by following «Quick Installation Guide...» . Then you are able to access the below Vinchin Backup & Recovery Web UI Login Portal by entering corresponding IP address (e.g. <http://192.168.65.1>) via web browser ([Google Chrome is recommended](#)) .

Default username: [admin](#)

Default Password: [123456](#)

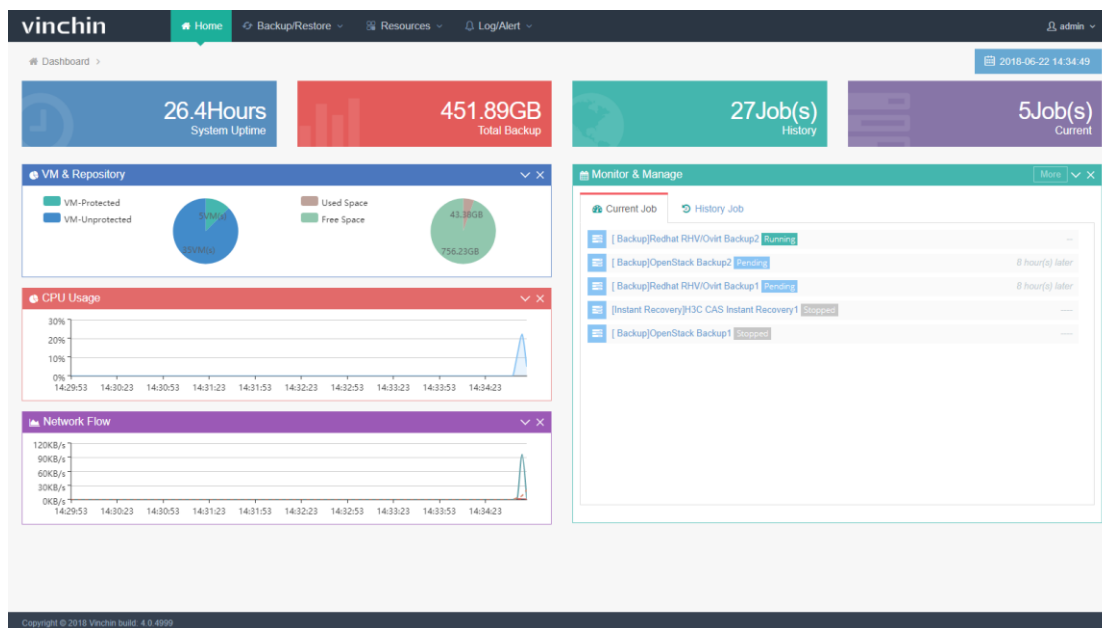


Note: If you forget your password:

1. Operator/Auditor, please contact your administrator to reset your password.
2. Administrator, please contact Vinchin Support Team to reset your password.

1.5. Home Page Overview

After login, you are coming to the home page, this page shows the system running status as below.



[System Uptime] is the system running time from the initial start-up to present (now).

[Total Backup] shows the accumulative backup size from the first backup to the latest backup.

[Current] shows current running job quantity.

[History] shows performed job quantity.

[CPU Usage] shows the CPU usage of the backup system.

[Network Flow] shows the real-time network traffic of the system.

[VM & Repository] shows the number of protected/unprotected VMs and used/free space of backup repository .

[Current Job] shows the current job list, click "more" to review the current job details at

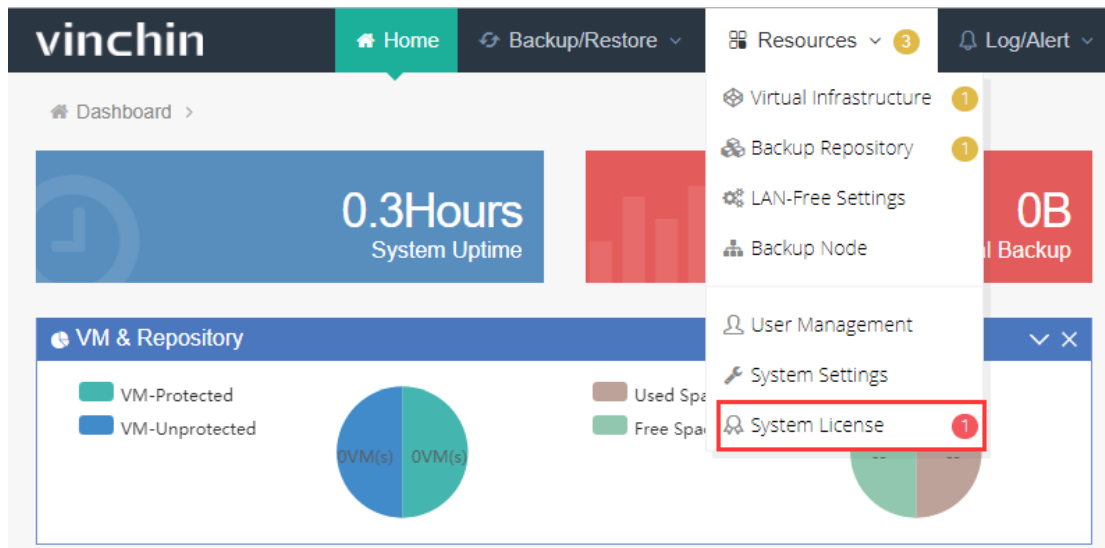
[current Job] page.

【History Job】 shows the history job list, click “more” to review the history job details at

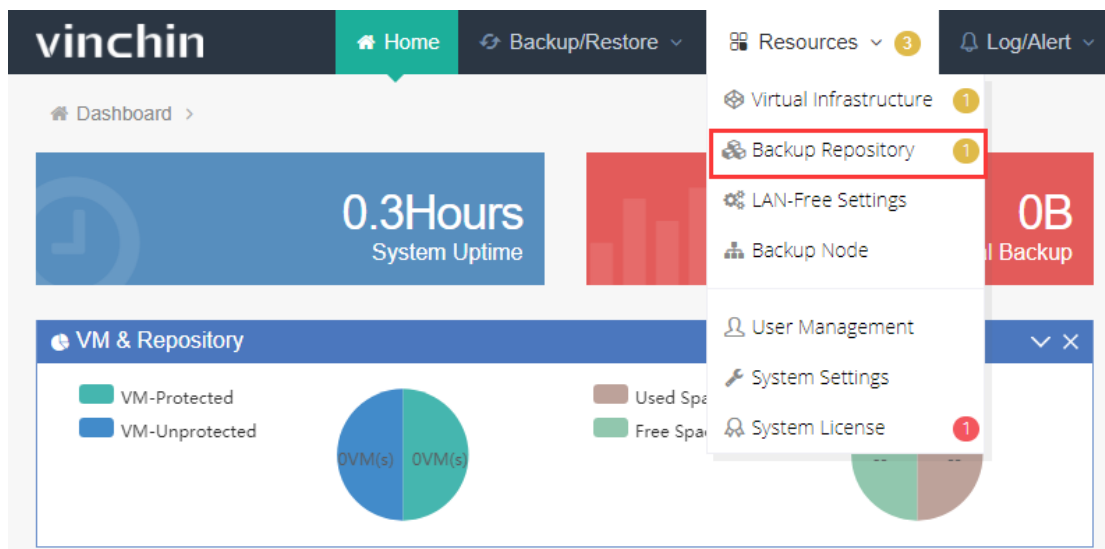
【History Job】 page.

1.6. Getting Started

- a) Licensing. Upload Vinchin Backup & Recovery system [licence.key](#), details please follow chapter 2.1

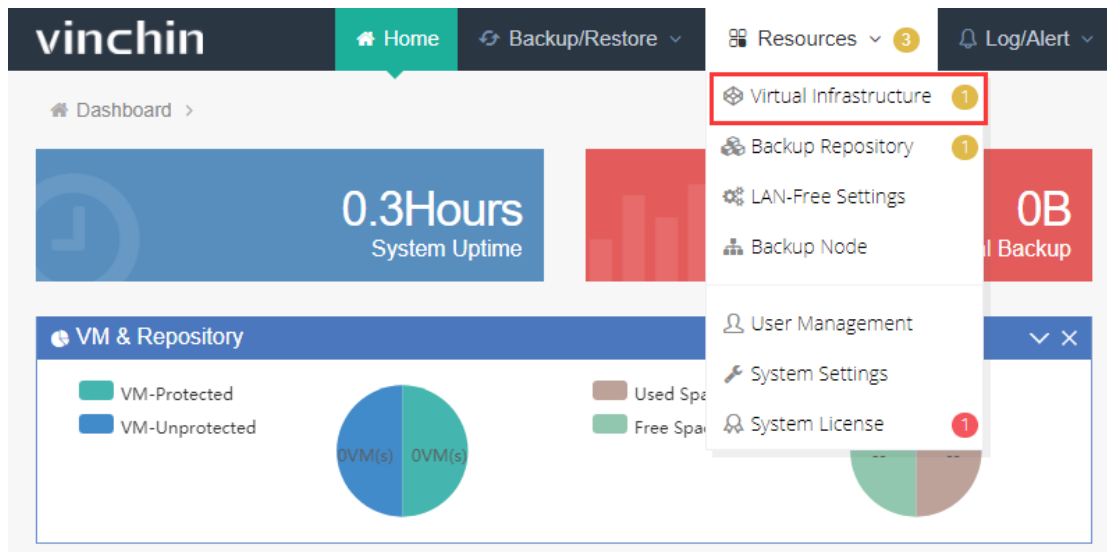


- b) Add Backup Repository. Add a storage location as backup repository, details please follow chapter 2.2

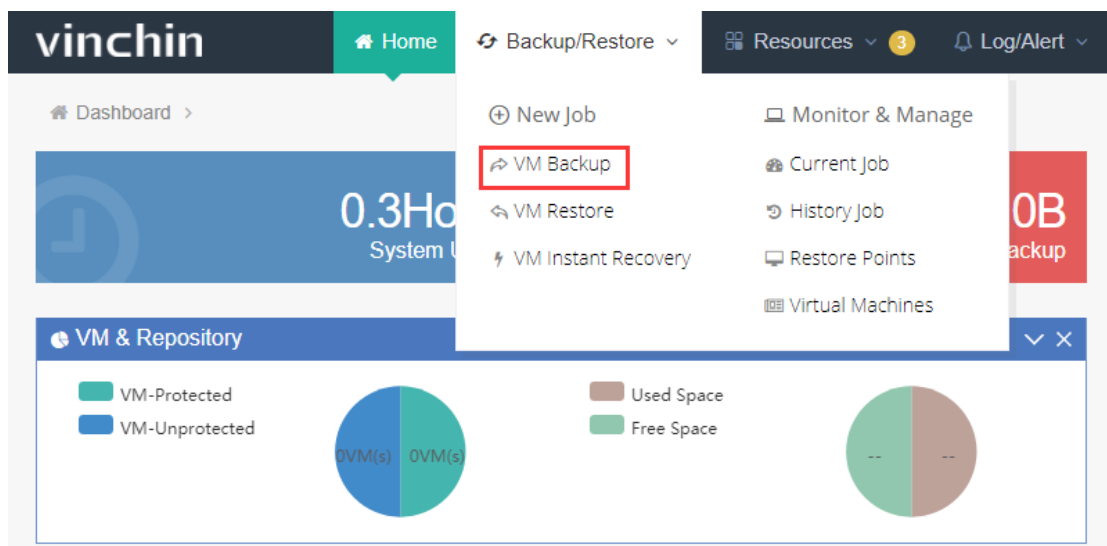


- c) Add virtual infrastructure(s). Add a standalone host or a virtual machine cluster which

need to be backed up, details please follow chapter 2.3.



d) Create Backup Job. Create a new backup job to protect the target VMs, details please follow chapter 3.

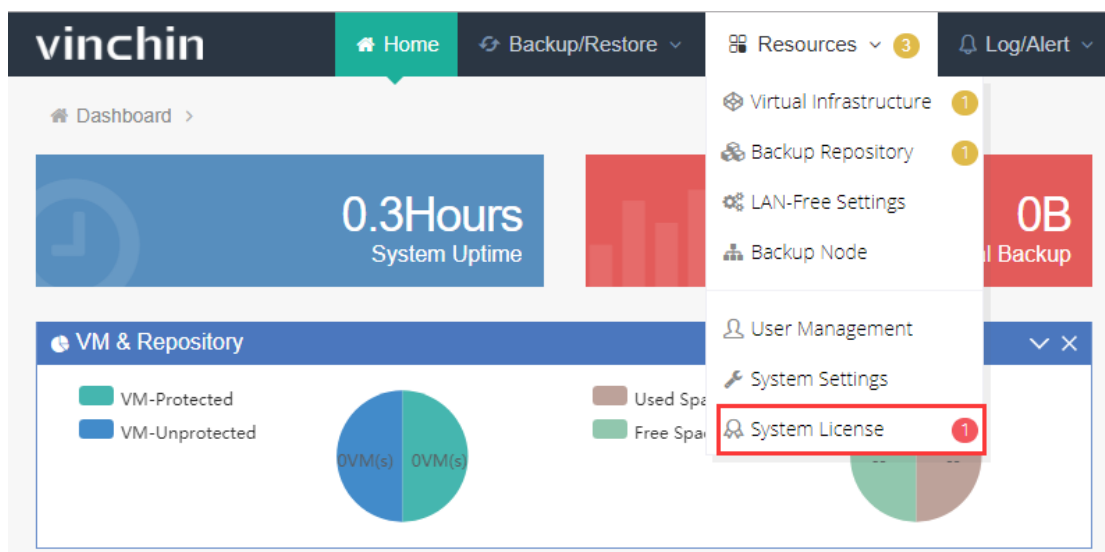


2. Resource Management

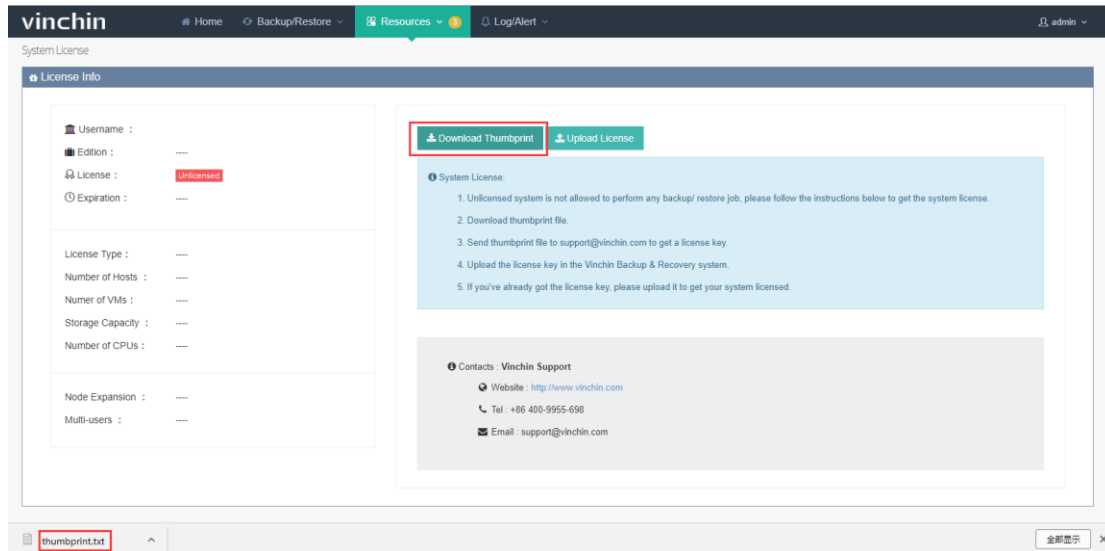
2.1. System License

Before starting backup your VMs, you need to get a license key from Vinchin and successfully activate your license in Vinchin Backup & Recovery system from **【Resources】**

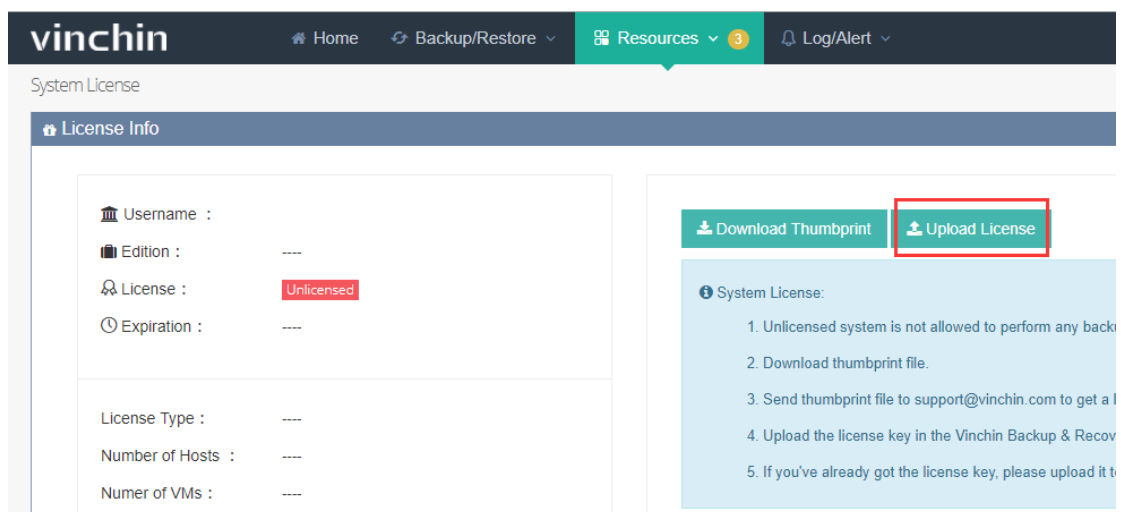
- **【System License】** as below:



Then you come to the system license page, click **【Download Thumbprint】**, a txt file named "thumbprint.txt" will be downloaded. Send this txt file to support@Vinchin.com and you will receive an email with corresponding "license.key" file in a minute.



After receiving the "licence.key" file, click **【Upload License】**, choose the "licence.key" file and click **【open】** as below:



After you uploaded the "license.key" file successfully, you will see the detailed information of your username, software Edition (Standard or Enterprise), expiration date, license type and license limitations etc.

If you already have a license in hand, please upload it directly.

If you are using a perpetual license, there will be no expiration date. If you are using a trial license, the license will be expired and unavailable after a specified period. Please contact Vinchin Support for a perpetual license before expiration.

The screenshot shows the 'System License' page in the Vinchin web interface. The page is divided into several sections:

- License Info:** A table showing license details:

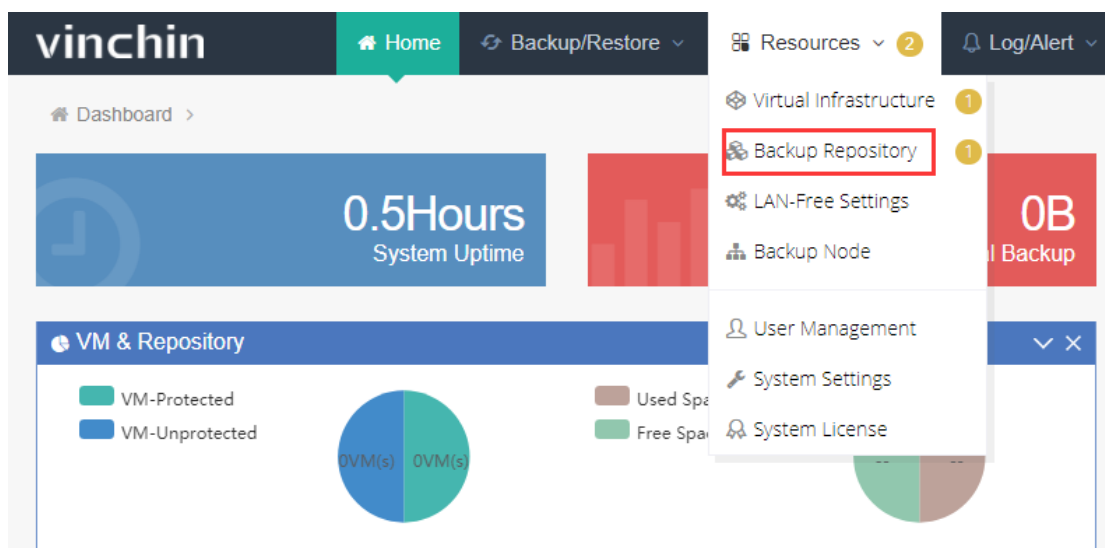
Username :	---
Edition :	Enterprise
License :	Trial License (59 days left)
Expiration :	2018-08-20 11:33:35
License Type :	Per CPU Socket
Number of Hosts :	Unlimited
Number of VMs :	Unlimited
Storage Capacity :	Unlimited
Number of CPUs :	8 / 10
Node Expansion :	Unlimited
Multi-users :	Unlimited
- Actions:** Two buttons: 'Download Thumbprint' and 'Upload License'.
- System License Instructions:** A list of five steps:
 1. Unlicensed system is not allowed to perform any backup/restore job, please follow the instructions below to get the system license.
 2. Download thumbprint file.
 3. Send thumbprint file to support@vinchin.com to get a license key.
 4. Upload the license key in the Vinchin Backup & Recovery system.
 5. If you've already got the license key, please upload it to get your system licensed.
- Contacts - Vinchin Support:** A box containing contact information:
 - Website : <https://www.vinchin.com/en>
 - Tel : +86 400-9955-698
 - Email : support@vinchin.com

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2.2. Manage Backup Repository

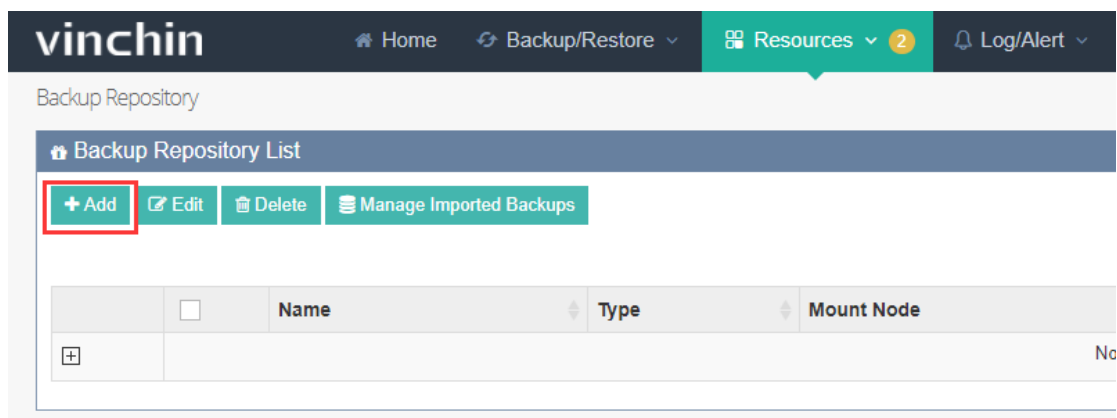
Backup repository is a place to store backed up data. Vinchin Backup & Recovery system supports multiple types of storage as backup repository including Partition, Local Disks, LVM, FC, iSCSI, NFS and CIFS. Users can add any of them when necessary. click **【Resources】**

- **【Backup Repository】** as below:



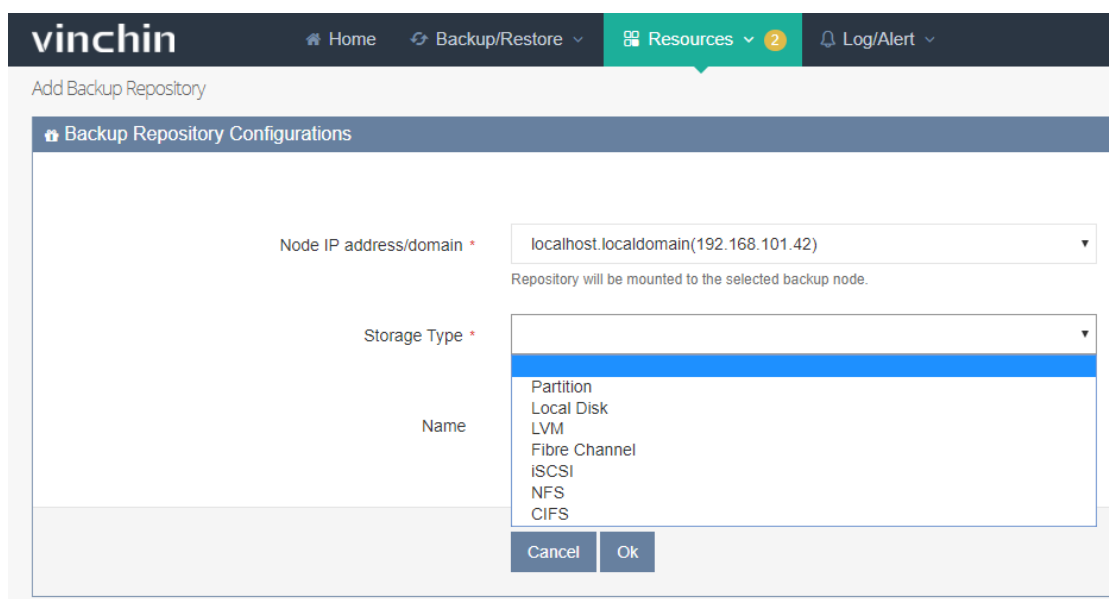
2.2.1. Add Backup Repository

Click **【Add】** in the Backup Repository page, you are able to add a new backup repository by following below steps:



First, choose a backup node from the "Node IP address/domain" where you want to mount your backup repository. If there's more than one backup node in your virtual environment, choose one of them to mount your target storage resource as a backup repository.

Second, specify a storage type which you want to add as backup repository as below :

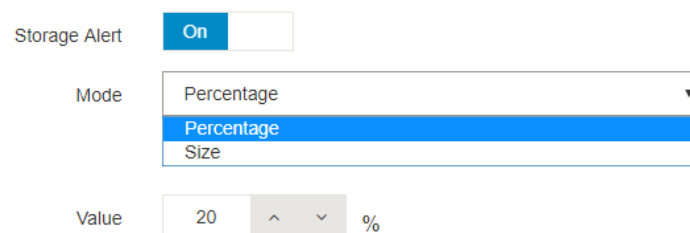


The screenshot shows the 'Add Backup Repository' configuration page in the vinchin interface. The page has a dark header with the vinchin logo and navigation links: Home, Backup/Restore, Resources (with a notification badge), and Log/Alert. Below the header, the page title is 'Add Backup Repository'. The main content area is titled 'Backup Repository Configurations' and contains the following fields:

- Node IP address/domain ***: A dropdown menu with the selected value 'localhost.localdomain(192.168.101.42)'. Below this field, a note states: 'Repository will be mounted to the selected backup node.'
- Storage Type ***: A dropdown menu with a list of options: Partition, Local Disk, LVM, Fibre Channel, iSCSI, NFS, and CIFS. The 'Partition' option is currently selected and highlighted in blue.
- Name**: A text input field, currently empty.

At the bottom of the configuration area, there are two buttons: 'Cancel' and 'Ok'.

Third, set up a critical value of storage from storage alert so that when your backup storage is insufficient, system will alert and send you email notification.

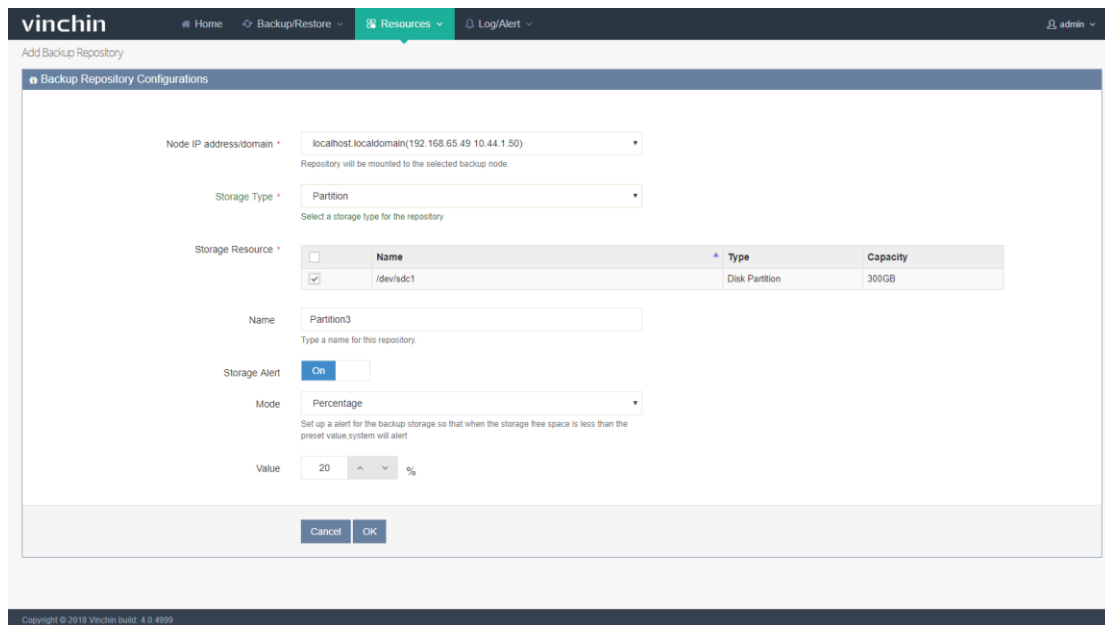


The screenshot shows the 'Storage Alert' configuration settings. It includes the following elements:

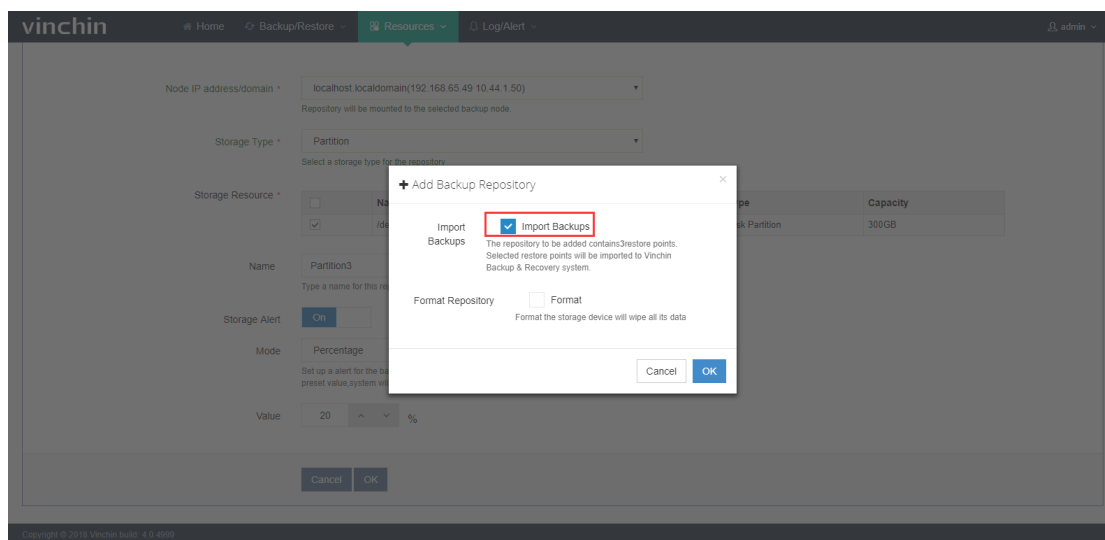
- Storage Alert**: A toggle switch set to 'On'.
- Mode**: A dropdown menu with three options: Percentage, Percentage (highlighted in blue), and Size.
- Value**: A numeric input field containing '20', followed by a small up/down arrow control and a percentage sign (%).

2.2.1.1. Partition

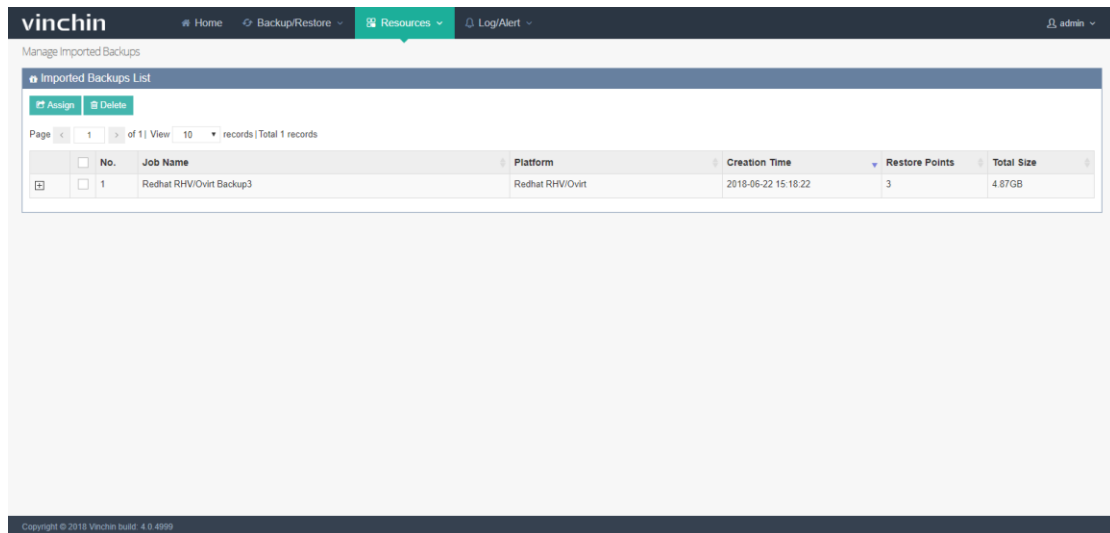
Choose Partition from the "Storage Type", system will recognize the un-mounted /un-used partitions as below shows:



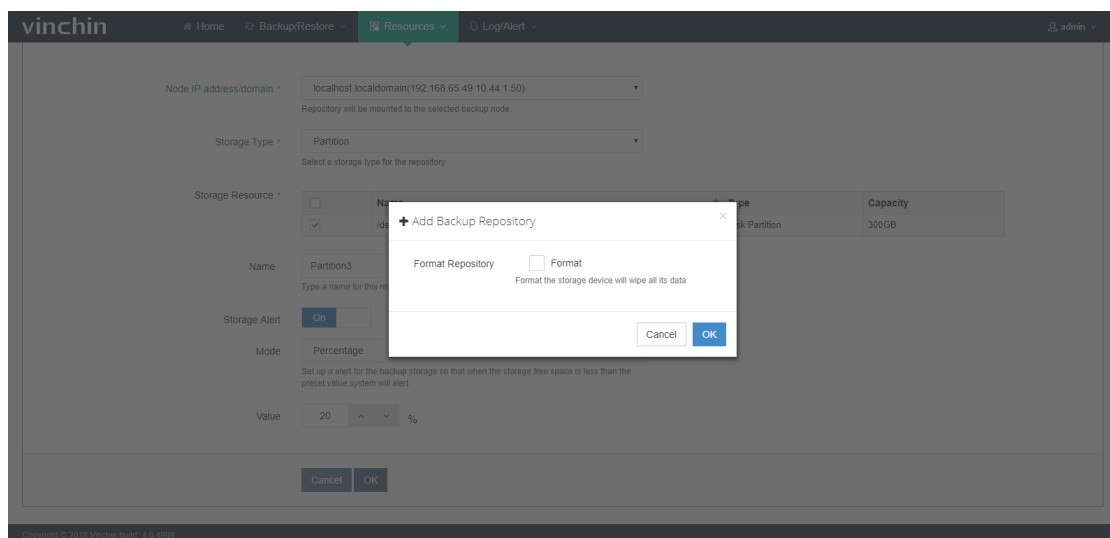
Tick the selected partition, if there is previous backed up data in this partition, you can choose to import the data or format the partition:



After importing the previous backups, you can find it in the **【Manage Imported Backups】** as below:



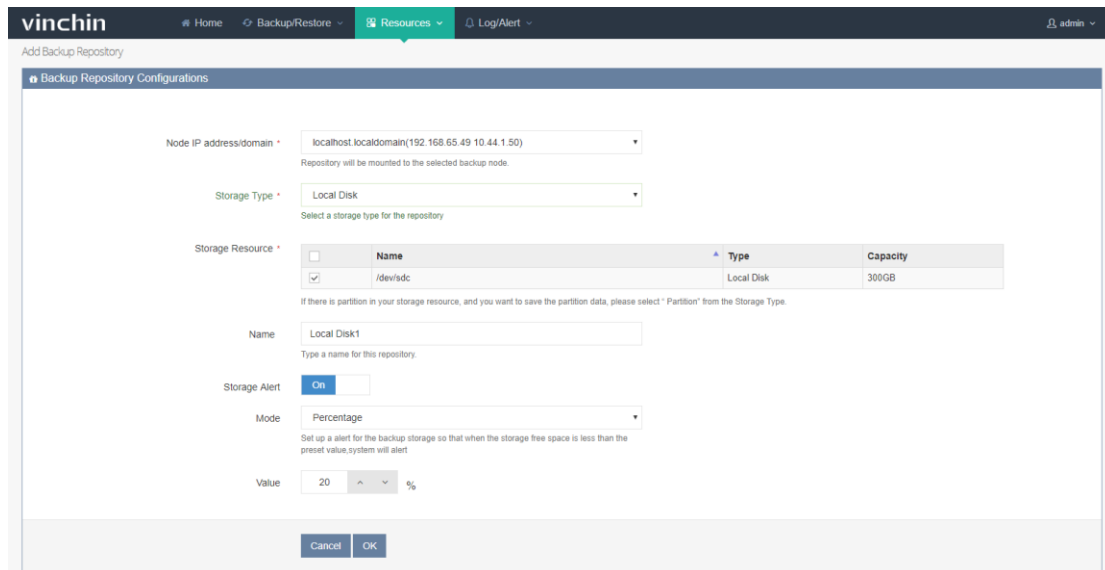
If there is other data but not backups in this partition, you can choose to format the partition:



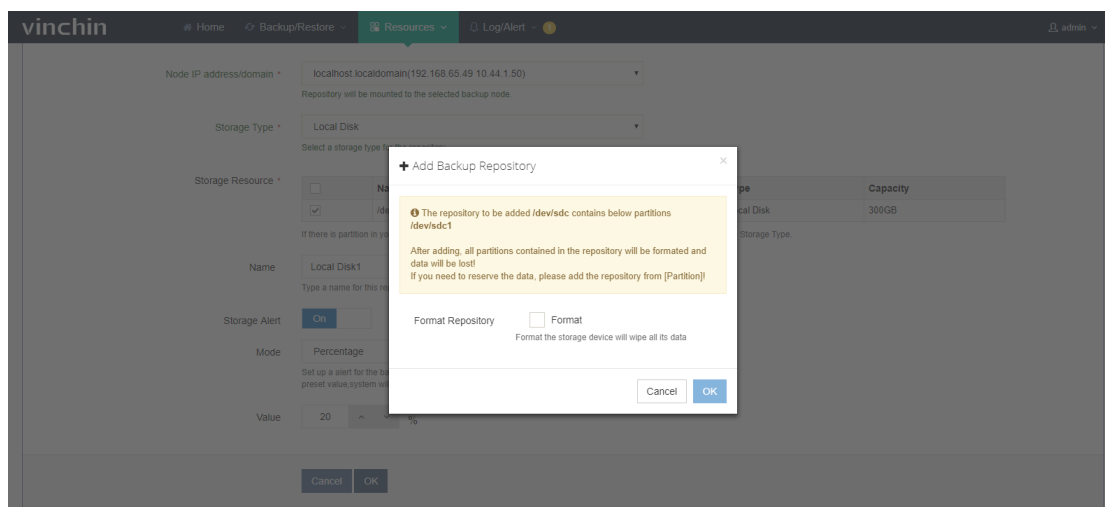
Warning: If you choose "Format", all the data in this partition will be erased.

2.2.1.2. Local Disk

Choose Local Disk from the "Storage Type", system will recognize the un-mounted /un-used disks as below:



Tick the selected disk and click [OK], a window with Format Storage will come out as below:



Warning: If you add a local disk as backup repository, the disk will be forcibly formatted, all the data in this disk will be erased.

After adding repository completed, you can see the added repositories in the 【Backup Repository List】 as below:

Backup Repository

Backup Repository List

+ Add Edit Delete Manage Imported Backups

Page 1 of 1 View 10 records per page Total 1 records

	Name	Type	Mount Node	Node Status	Capacity	Free Space	Repository Status
<input type="checkbox"/>	Local Disk1	Local Disk	localhost.localdomain(192.168.101.42)	Normal	299.85GB	299.82GB	Normal

2.2.1.3.LVM

Choose LVM (Logic Volume) from the "Storage Type", system will recognize the un-mounted /un-used logic volumes as below:

vinchin Home Backup/Restore Resources Log/Alert admin

Add Backup Repository

Backup Repository Configurations

Node IP address/domain: localhost.localdomain(192.168.65.49 10.44.1.50)
Repository will be mounted to the selected backup node.

Storage Type: LVM
Select a storage type for the repository

Storage Resource:

<input type="checkbox"/>	Name	Type	Capacity
<input checked="" type="checkbox"/>	/dev/mapper/vinchin_vg-vinchin_lvm	LVM	299GB

Name: LVM1
Type a name for this repository.

Storage Alert: On

Mode: Percentage
Set up an alert for the backup storage so that when the storage free space is less than the preset value, system will alert

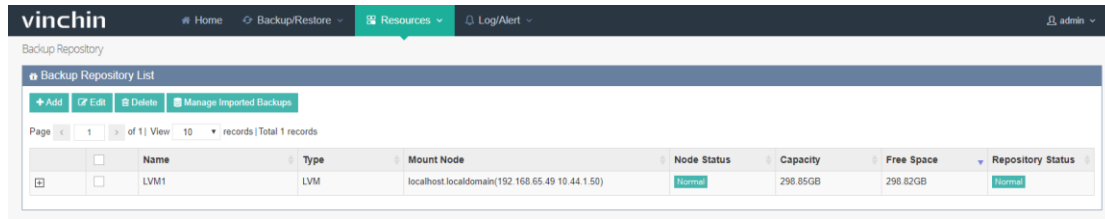
Value: 20 %

Cancel OK

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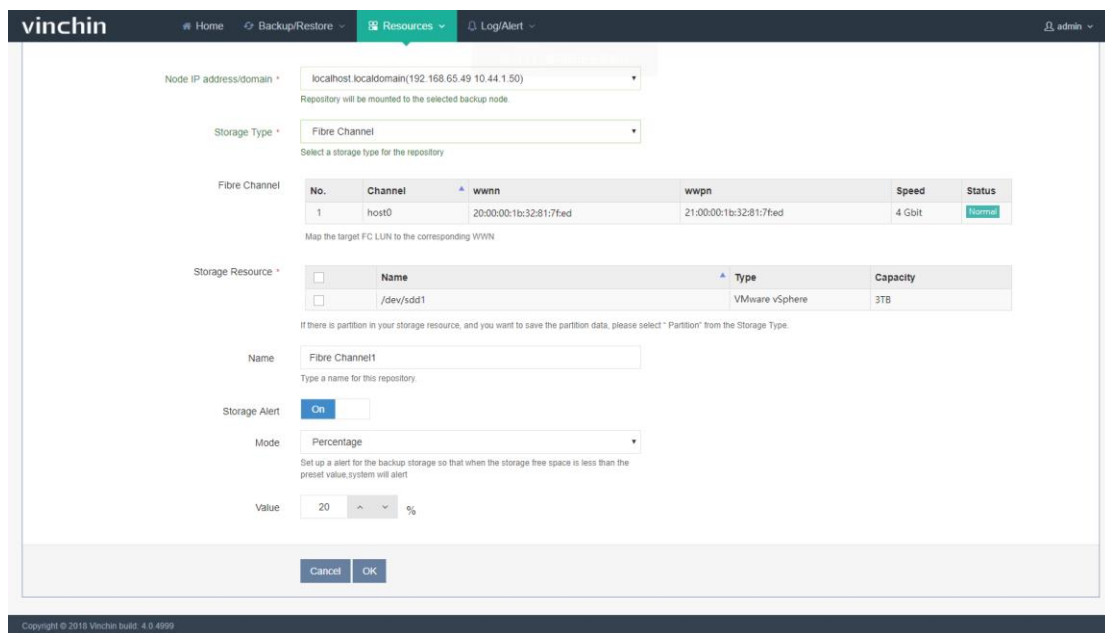
Note: Adding LVM is the same as adding Partition. If there is previous backed up data in the logic volume, you can choose to import the data or format the logic volume. If the data is not backup data, you can choose to format the logic volume.

After adding a LVM as backup repository, you can see the added repositories in the **【Backup Repository List】** as below:

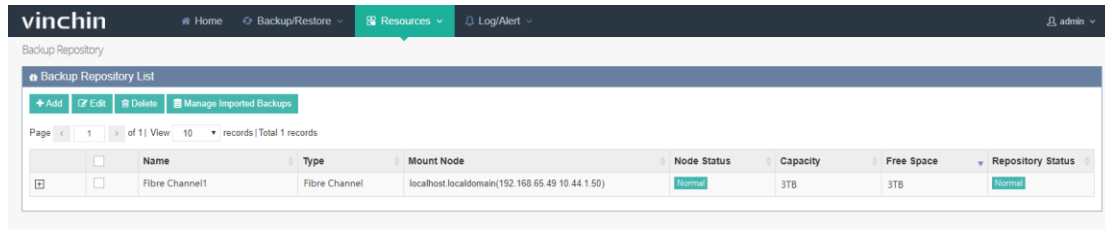


2.2.1.4.Fibre Channel

Choose Fibre Channel from the "Storage Type", system will recognize the Fibre channel information and WWPN No. of HBA card. Map the LUN of FC storage server to the backup server. After mapping, choose FC again from the "Storage Type", system will recognize the mapped LUN as below:



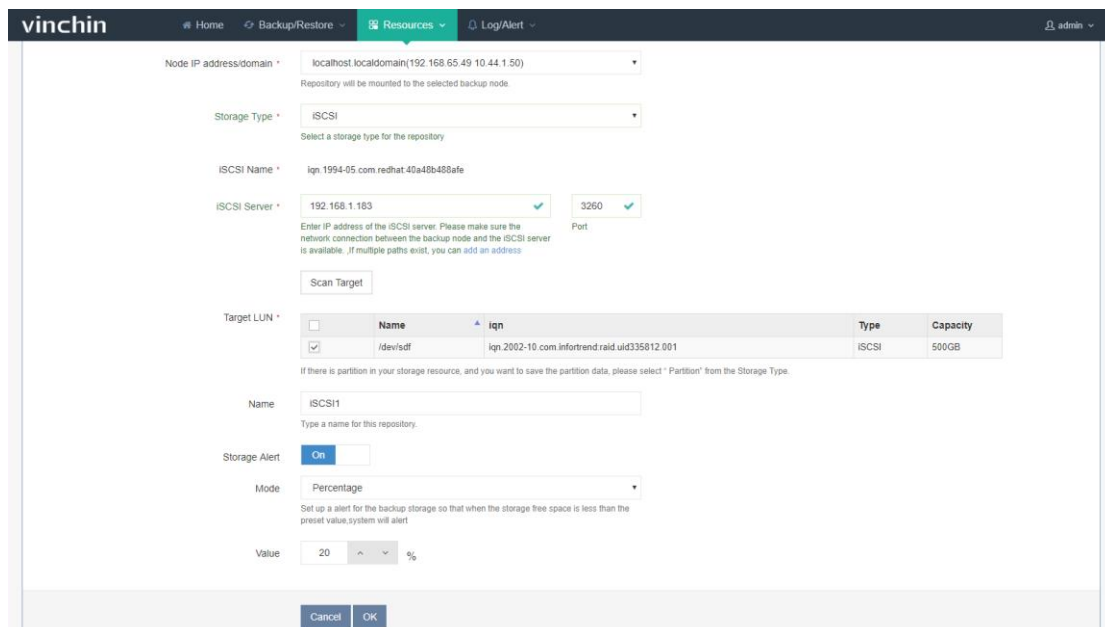
After adding a FC storage as backup repository, you can see the added repositories in the **【Backup Repository List】** as below:



Note: If you add a FC storage as backup repository, the FC storage will be forcibly formatted, all the data in this storage will be erased. If this FC storage has been added and already exists backed up data, please add this FC storage via "Partition".

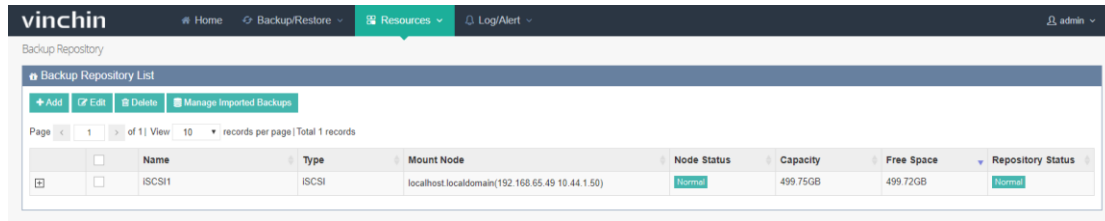
2.2.1.5.iSCSI

Choose iSCSI from the "Storage Type", you will see the iSCSI IQN information. Map the LUN of iSCSI storage server to the backup server IQN. After mapping completed, enter iSCSI server address and click **【Scan the Target】**, system will recognize the mapped LUN as below:



Choose a LUN and click **【OK】**, the iSCSI storage will be added successfully. After adding

an iSCSI storage as backup repository, you can see the added repositories in the 【Backup Repository List】 as below:

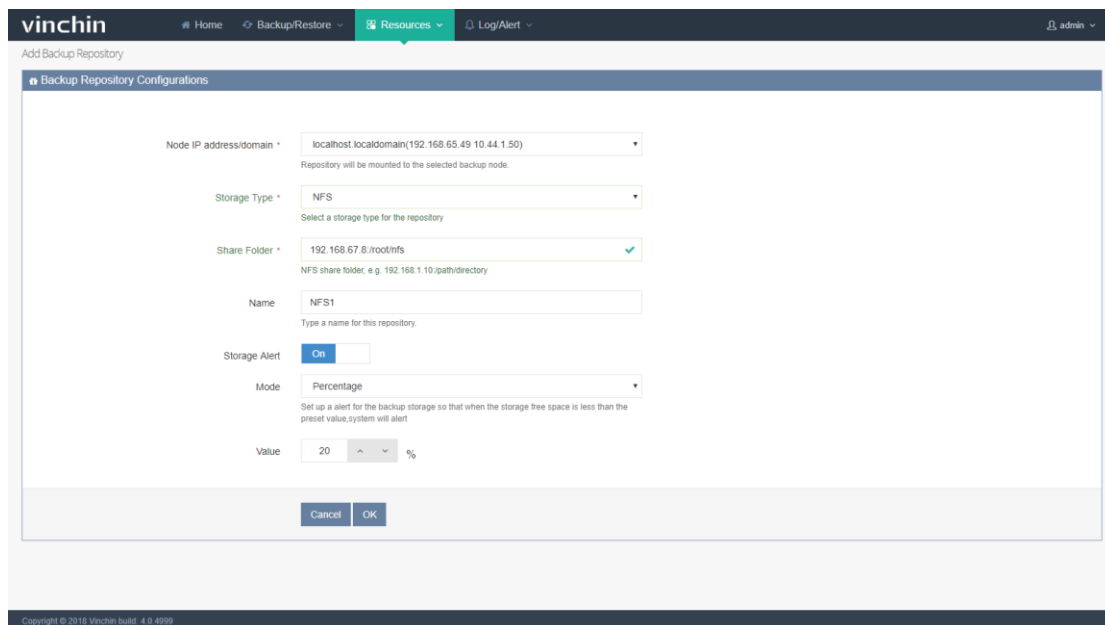


	Name	Type	Mount Node	Node Status	Capacity	Free Space	Repository Status
<input type="checkbox"/>	ISCSI1	ISCSI	localhost.localdomain(192.168.65.49 10.44.1.50)	Normal	499.75GB	499.72GB	Normal

Note : If you add an iSCSI storage as backup repository, it will be forcibly formatted, all the data in this storage will be erased. If this iSCSI storage has been added and already exists backed up data, please add this storage in via "Partition".

2.2.1.6.NFS

Choose NFS from the "Storage Type", enter your shared folder path as below:



Node IP address/domain: localhost.localdomain(192.168.65.49 10.44.1.50)
Repository will be mounted to the selected backup node.

Storage Type: NFS
Select a storage type for the repository.

Share Folder: 192.168.67.6:/root/nfs
NFS share folder, e.g. 192.168.1.10:/path/directory

Name: NFS1
Type a name for this repository.

Storage Alert: On

Mode: Percentage
Set up an alert for the backup storage so that when the storage free space is less than the preset value, system will alert.

Value: 20 %

Cancel OK

After adding the NFS storage completed, you can see the added repositories in the 【Backup Repository List】 as below:

Backup Repository

Backup Repository List

+ Add Edit Delete Manage Imported Backups

Page 1 of 1 View 10 records Total 1 records

	<input type="checkbox"/>	Name	Type	Mount Node	Node Status	Capacity	Free Space	Repository Status
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NFS1	NFS	localhost.localdomain(192.168.65.49 10.44.1.50)	Normal	499.76GB	479.95GB	Normal

Note: The share folders' previous data will not be erased when adding NFS storage.

2.2.1.7.CIFS

Choose CIFS from the "Storage Type", enter your shared folder path, username and password as below:

vinchin Home Backup/Restore Resources Log/Alert admin

Node IP address/domain: localhost.localdomain(192.168.65.49 10.44.1.50)
Repository will be mounted to the selected backup node.

Storage Type: CIFS
Select a storage type for the repository

Share Folder: //192.168.67.12/gongxiang
CIFS share folder, e.g. //192.168.1.10/path/directory

Username: vinchin
Username for accessing CIFS

Password: *****
Password for accessing CIFS

Name: CIFS1
Type a name for this repository.

Storage Alert: On

Mode: Percentage
Set up an alert for the backup storage so that when the storage free space is less than the preset value, system will alert

Value: 20 %

Cancel OK

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After adding the CIFS storage completed, you can see the added repositories in the

【Backup Repository List】 as below:

Backup Repository

Backup Repository List

+ Add Edit Delete Manage Imported Backups

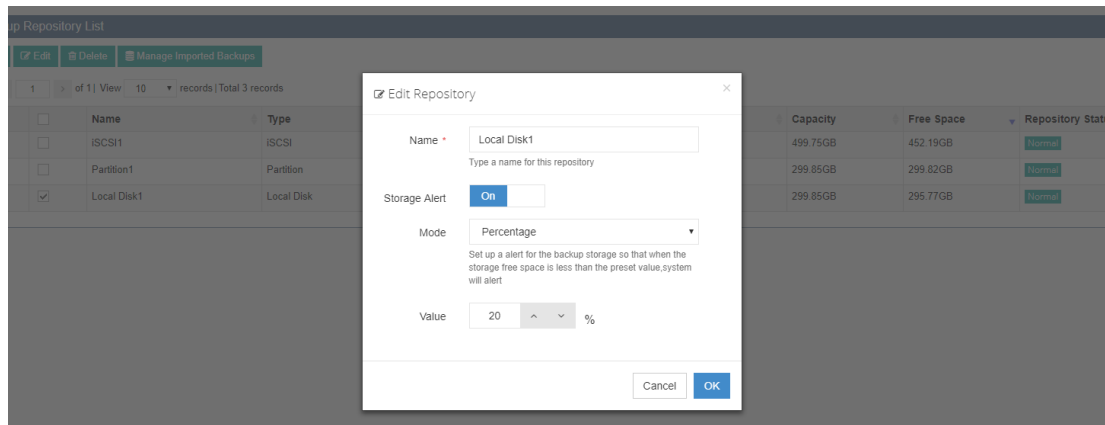
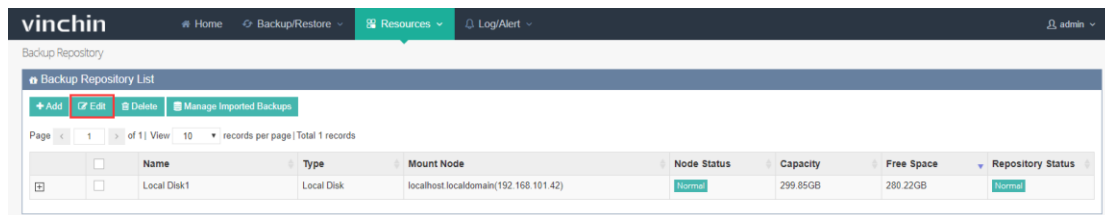
Page 1 of 1 View 10 records per page Total 2 records

	<input type="checkbox"/>	Name	Type	Mount Node	Node Status	Capacity	Free Space	Repository Status
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NFS1	NFS	localhost.localdomain(192.168.65.49 10.44.1.50)	Normal	499.76GB	479.95GB	Normal
<input type="checkbox"/>	<input type="checkbox"/>	CIFS1	CIFS	localhost.localdomain(192.168.65.49 10.44.1.50)	Normal	499.87GB	493.22GB	Normal

Note: The share folders' previous data will not be erased when adding CIFS storage.

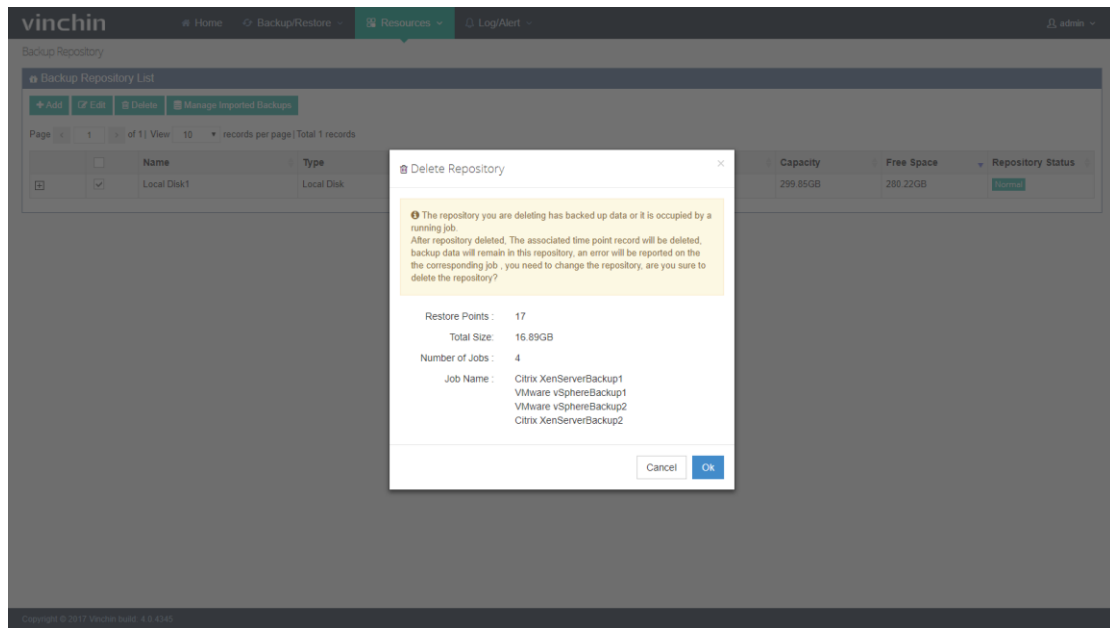
2.2.2. Edit Backup Repository

Choose a repository, click **【Edit】** you can edit the repository name and the storage alert.



2.2.3. Delete Backup Repository

You can delete any of the repositories from the **【Backup Repository List】**. Choose a repository, click **【Delete】**. If there are backup data in this repository, system will remind you as below:

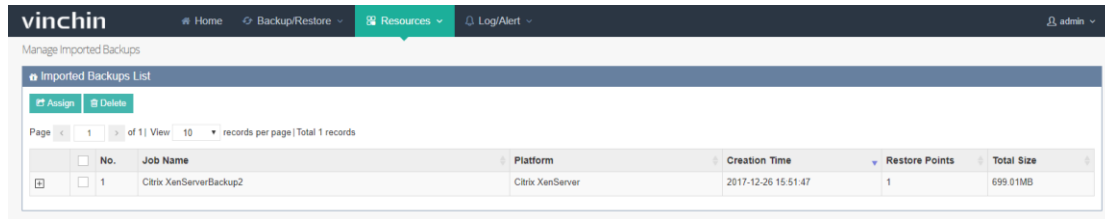


Click **【OK】** to delete the repository. The deleted repository can be re-added via "Partition".

Note: Deleting the repository is a logical action rather than a physical action, which means the VM corresponding restore point record will be deleted, but the backed up data will not be deleted actually. If you need the backed up data, you can re-add the data located repository to the backup system. Choose "Partition" to import the data.

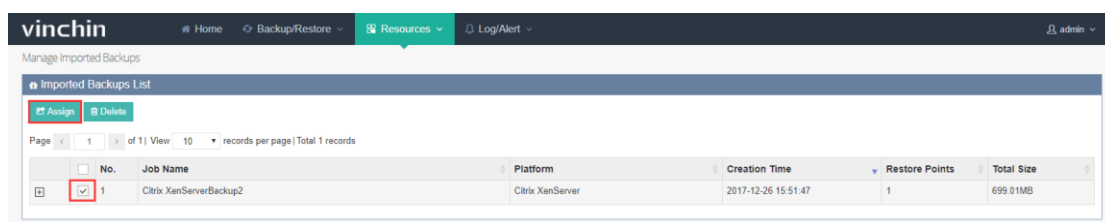
2.2.4. Manage Imported Backups

If the added repository already exists backup data, you can choose to import the backups via "Partition". Imported backups can be found in **【Manage Imported Backups】** page as below:



If you need to recover the imported backups, you need to assign it to a user, click

【Assign】 as below:



Assign to User

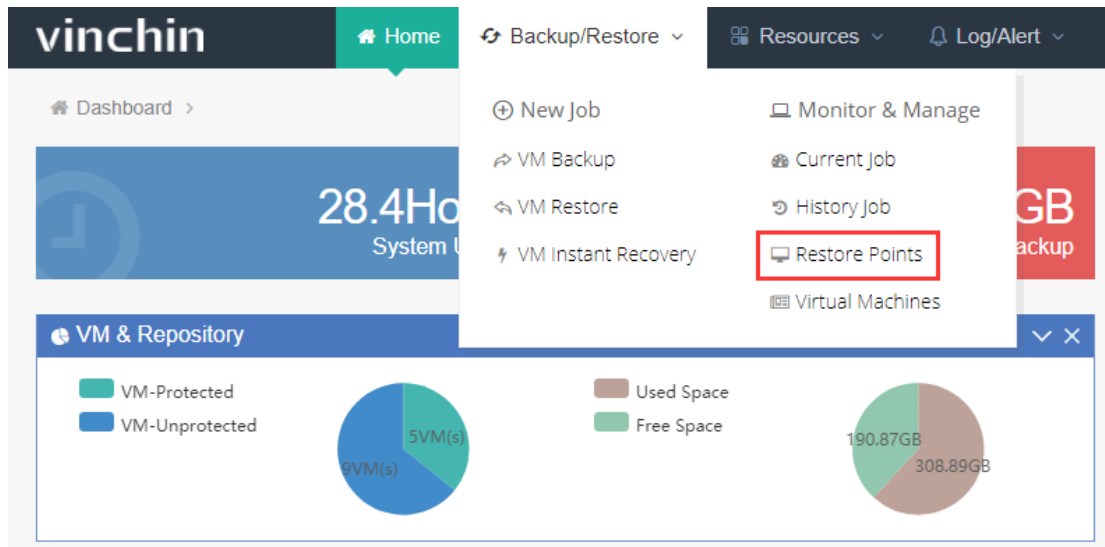
Number of Jobs 1

Assign * admin

Please select a user who you want to assign the imported backups to

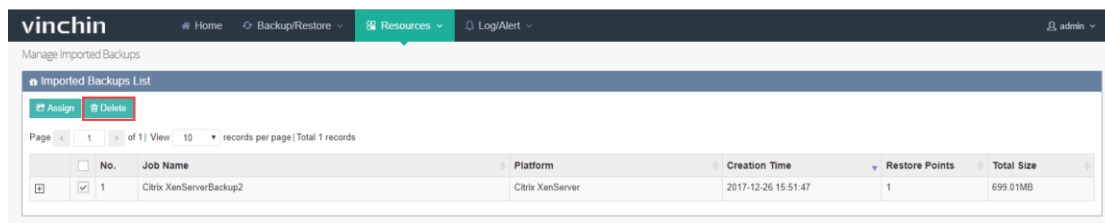
Cancel Ok

Then you can find the assigned data in this user's 【Backup/Restore】 - 【Restore Points】 page as below:



Note: You can create a new restore job to restore the imported backups if necessary.

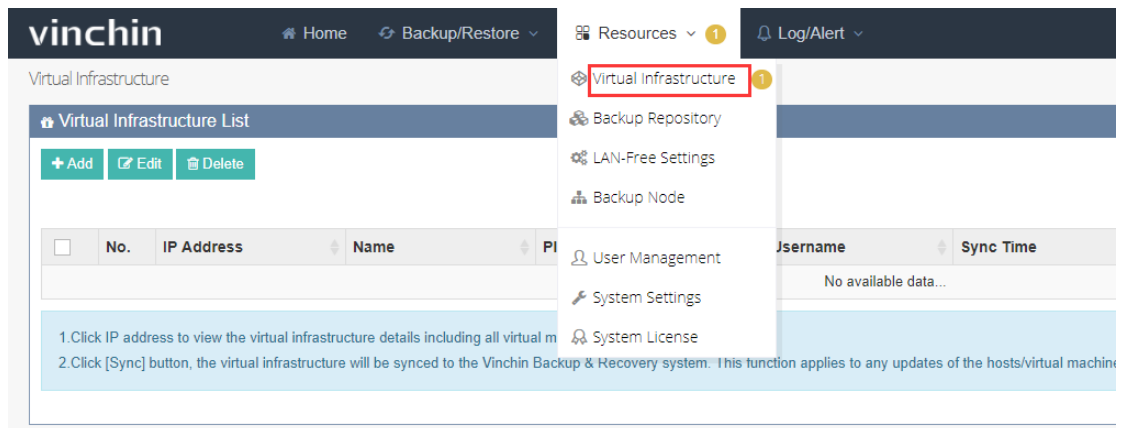
If you don't need the imported backups, you can delete them by clicking **【Delete】** as below.



Warning: Once deleted, the imported backups are unrecoverable permanently.

2.3. Virtual Infrastructure

Before starting backup, you need to register your virtual infrastructure (either a VM Manager Server e.g. vCenter or a standalone host e.g. ESXi host) in Vinchin Backup & Recovery system. Click **【Resources】** - **【Virtual Infrastructure】** as below:



2.3.1. Add Server

Click **【Add】** you are coming to the virtual infrastructure adding page. Choose Openstack from the Platform → Enter IP/Domain, Keystone Port, Tenant name, Keystone version, username, password and rename it, then click **【OK】** to save.

The screenshot shows the Vinchin web interface with the 'Resources' tab selected. A warning message at the top reads: "OpenStack A backup plugin is required to be installed at the hypervisor level of a target host to be backed up/restored. Please download the corresponding backup plugin from the system login page Download Backup Plugin, and deploy it on target host accordingly." Below this is a form for adding a new OpenStack host. The form fields are: Platform (OpenStack), IP/Domain, Port (Keystone public port: 5000, Keystone admin port: 35357), Tenant name, Keystone Version (Version2), Username, Password, and Name. At the bottom of the form are 'Cancel' and 'OK' buttons. The footer of the page reads: "Copyright © 2018 Vinchin build: 4.0.4999".

Platform: Supports VMware vSphere, Citrix XenServer, RedHat RHV Ovirt, OpenStack, Sangfor HCI, H3C CAS and Inspur InCloud.

IP/Domain: Either a standalone host IP address/domain (e.g. ESXi host) or a VM Manager Server IP address/domain (e.g. vCenter).

Port: Keystone public port & Keystone admin port

Tenant name: enter the openstack tenant name

Keystone Version: select a version of keystone. Vinchin supports version 2 and version 3.

Username/Password: The username /password to access to the individual host /VM Manager Server.

Rename: Edit a name for this new added individual host /VM Manager Server.

2.3.2. Edit Server

After adding the servers, you can find them in the Virtual Infrastructure list.

Click [Sync] button, the virtual infrastructure will be synced to the Vinchin Backup & Recovery system.

Virtual Infrastructure List

Auto-refresh virtual infrastructure every 60 minute(s) Save

Page 1 of 1 View 10 records Total 4 records

No.	IP Address	Name	Platform	Version	Username	Sync Time	Added By	Status	Operation
1	10.44.1.2(admin)	10.44.1.2	OpenStack	--	admin	2018-07-06 12:07:15	admin	All Authorized	Sync Auth
2	192.168.66.52	192.168.66.52	Redhat RHV/Ovirt	--	admin@internal	2018-07-05 19:46:05	admin	All Authorized	Sync Auth
3	192.168.66.30	192.168.66.30	SANGFOR HCI	--	admin	2018-07-05 19:46:24	admin	Partial Authorized	Sync Auth
4	192.168.66.43:8080	192.168.66.43:8080	H3C CAS	3.0	admin	2018-07-05 19:46:00	admin	Unauthorized	Sync Auth

1. Click IP address to view the virtual infrastructure details including all virtual machines status.
2. Click [Sync] button, the virtual infrastructure will be synced to the Vinchin Backup & Recovery system. This function applies to any updates of the hosts/virtual machines in the virtual infrastructure.

Note: This function applies to any updates of the hosts/virtual machines in the virtual infrastructure. You can also click **[Sync]** to refresh your server when creating a new job.

Tick a virtual infrastructure and click **[Edit]**, you are able to edit the details of the virtual infrastructure, click **[OK]** to save the changes.

Edit Virtual Infrastructure

Fill in the virtual infrastructure information

Platform * OpenStack
Select a virtualization platform to be backed up.

IP/Domain * 10.44.1.2
To backup individual host, please enter its IP address or domain name.
To backup multiple hosts, please enter IP address or domain name of corresponding VM Manager server (e.g. vCenter for VMware vSphere).

Port * 15000 35357
Keystone public port Keystone admin port

Tenant name * admin
Username of individual host/VM Manager Server

Keystone Version * Version2
keystone service API version

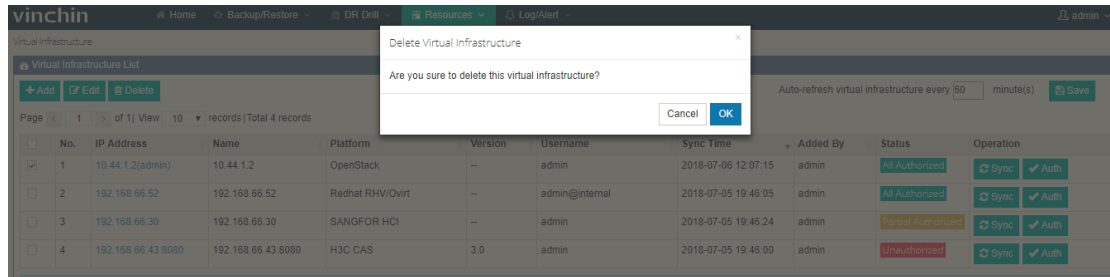
Username * admin
Username of individual host/VM Manager Server

Password *
Password of individual host/VM Manager Server

Name 10.44.1.2
Type a name for the individual host/VM Manager Server

2.3.3. Delete Server

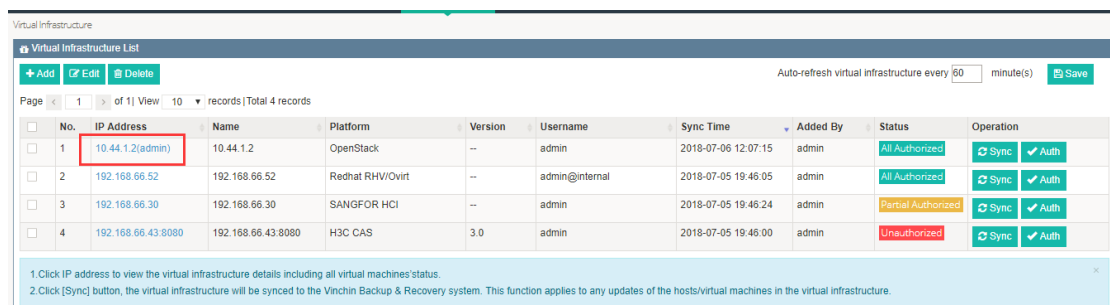
Tick a virtual infrastructure and click **【Delete】**, the system will re-confirm with you this action as below, click **【OK】** the server will be deleted.



Note: The virtual infrastructure cannot be deleted when it is used in a running job. You must delete the running job before deleting the virtual infrastructure.

2.3.4. Manage Virtual Machines

Click IP address of one virtual infrastructure you are coming to the page showing the virtual infrastructure details including all virtual machines status. Expanding the virtual infrastructure tree on the left, you will see all the VMs under this infrastructure on the right side.



The screenshot shows the 'Virtual Infrastructure Details' page. On the left, there is a 'Virtual Infrastructure List' with a 'Hosts & Clusters' dropdown menu. Below it, a list of hosts is shown: H3C CAS, SANGFOR HCI, Redhat RHV/Ovirt, OpenStack, and 10.44.1.2(admin) with a Refresh button. On the right, the 'Virtual Machines' section displays a table with 2 records. The table has columns for No., VM Name, Status, and Operation. The first VM is 'ccc' with a 'Poweroff' status and an 'Options' button. The second VM is 'YHS_TEST' with a 'Poweroff' status and an 'Options' button.

No.	VM Name	Status	Operation
1	ccc	Poweroff	Options
2	YHS_TEST	Poweroff	Options

Choose one VM and click [Options] under “Operation”, you can power on, pause or power off the VM. You can also choose to add this VM to the existed backup jobs.

This screenshot is similar to the previous one, but it highlights the 'Options' menu for the 'YHS_TEST' VM. A red box around the 'Options' button in the 'Operation' column of the table shows a dropdown menu with two items: 'Power On' and 'Add to current job'. Another red box highlights the '10.44.1.2(admin)' host in the 'Virtual Infrastructure List' on the left.

No.	VM Name	Status	Operation
1	ccc	Poweroff	Options
2	YHS_TEST	Poweroff	Options

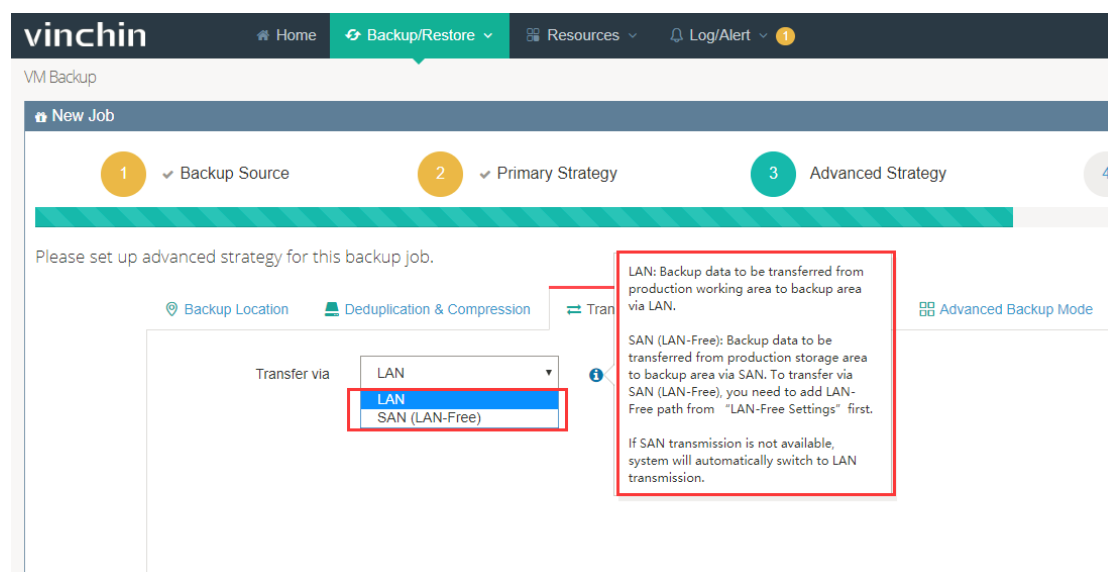
Note: After you change the VM status, please go back to the virtual infrastructure page and sync the VM located virtual infrastructure manually.

2.4. LAN-Free Settings

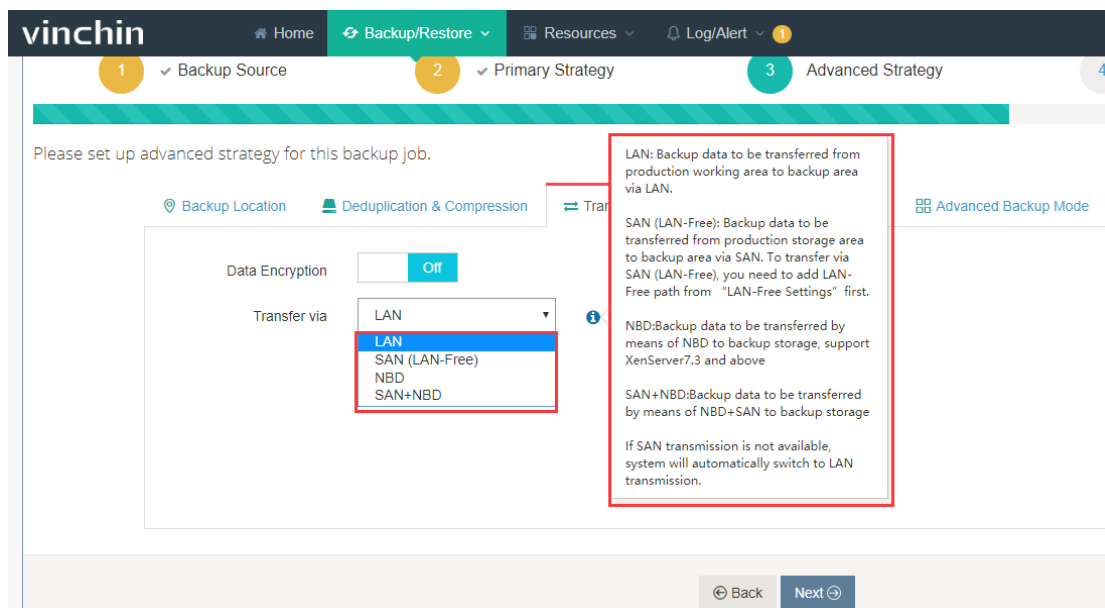
Data usually is transferred via LAN, but when the data size is too large, network jam will probably occur. Using LAN-Free to backup and restore under SAN environment can help to reduce network jam, improve backup and recovery speed without building any separate DR backup network.

Note: LAN-Free backup is available for VMware, XenServer and RHV.

- For VMware and RHV, you can choose transfer via SAN (LAN-Free) in the “Transmission Network” options when creating a backup / restore job.



- For XenServer, you can choose transfer via SAN (LAN-Free) or SAN+NBD in the “Transmission Network” options when creating a backup / restore job so that to backup your VMs via LAN-Free.



2.4.1. Add LAN-Free Repository

Mapping the production storage to Vinchin Backup & Recovery system, can let the Vinchin Backup & Recovery system directly read data from this storage. Highly improved the backup efficiency without affecting the production working network. Vinchin Backup & Recovery system currently supports FC, ISCSI and NFS LAN-Free settings.

Note: As different storage server has different LUN mapping methods, the following operations are for reference only.

2.4.1.1. FC Storage

Precondition: The LUN mapping of production storage is Fibre Channel mapping.

LAN-Free configuration step of FC storage are as below:

a) Map the LUN of production storage to Vinchin Backup & Recovery system.

Channel	Host ID	Assignment
Channel 7	2100001B32810539(64 214)	Slot A
Channel 7	2101001B32A10539	Slot A

b) Click **【Resources】** - **【LAN-Free Settings】**, you are coming to the LAN-Free settings page.

1. Vinchin Backup & Recovery supports LAN-Free backup of FC, iSCSI and NFS storage. Target VM will be backed up from production repository to backup repository without using LAN network.
2. To LAN-Free backup VM, first you need to mount production repository where locates the target VM to a backup node. Please click [Add] to start.
3. Note: All the original data on the production repository will not be changed after mounted to the backup node

Click **【Add】**, and choose **【Fibre Channel】** from Storage Type, the system will recognize the LUN which is mapped to Vinchin Backup & Recovery system, and display corresponding production server and its total size.

vinchin Home Backup/Restore Resources Log/Alert admin

Add LAN-Free Production Repository

LAN-Free Production Repository Configurations

Node IP address/domain: localhost.localdomain(192.168.65.5)
Repository will be mounted to the selected backup node.

Storage Type: **Fibre Channel**
Select a storage type for the repository.

Fibre Channel

No.	Channel	wwnn	wwpn	Speed	Status
1	host0	20:00:00:1b:32:81:7fed	21:00:00:1b:32:81:7fed	4 Gbit	Normal

Map the target FC LUN to the corresponding WWN

Storage Resource

<input type="checkbox"/>	Name	Type	Capacity
<input type="checkbox"/>	/dev/sdg1	VMware vSphere	5.46TB

Select a production repository to do LAN-Free backup. All the original data on this repository will not be changed.

Name: Fibre Channel1
Type a name for this repository.

Cancel OK

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Note: The recognized production LUN type is the LUN mapped hypervisor type. If the production storage is mounted to ESXi host, the Type will be VMware vSphere. If it is mounted to XenServer host, the Type will be Citrix XenServer as above.

Choose a production storage resource and click **OK**, you will find the added production storage in the LAN-Free Production Repository List.

vinchin Home Backup/Restore Resources Log/Alert admin

LAN-Free Settings

LAN-Free Production Repository List

+ Add Edit Delete

<input type="checkbox"/>	Name	Type	Mount Node	Node Status	Capacity	Repository Status
<input type="checkbox"/>	Fibre Channel1	Fibre Channel	localhost.localdomain(192.168.64.213)	Normal	3TB	Normal

1. Vinchin Backup & Recovery supports LAN-Free backup of FC, iSCSI and NFS storage. Target VM will be backed up from production repository to backup repository without using LAN network.
2. To LAN-Free backup VM, first you need to mount production repository where locates the target VM to a backup node. Please click [Add] to start.
3. Note: All the original data on the production repository will not be changed after mounted to the backup node.

2.4.1.2.iSCSI Storage

Precondition: The LUN mapping of production storage is iSCSI mapping.

LAN-Free configuration of iSCSI storage are as below:

a) Map the LUN of production storage to Vinchin Backup & Recovery system.

The screenshot shows the 'Partition Status' window with two tabs: 'Partition Information' and 'Capacity'. The 'Partition Information' tab displays details for 'ICSI for 214', including its size (200 GB), ID (2F3790842B45FD3C), status (The volume has been mounted), and map (Yes). The 'Capacity' tab shows a pie chart indicating 200 GB of used space (100%) and 0 MB of free space (0%). Below this, the 'LUN Mapping Information' table is shown:

Channel	Host ID	Assignment
Channel 0	iqn.1990-01.com.vmware:5875f5f0-6ccb-6f7c-a3fa-0cc47acb2262-2f3ca00064	Slot A
Channel 0	iqn.1994-05.com.redhat:347bf96bc2c7(101.42)	Slot A

b) Click **【Resources】** - **【LAN-Free Settings】**, you are coming to the LAN-Free setting page. Click **【Add】**, and choose Storage Type as iSCSI and click **【Scan The Target】**. The system will recognize the LUN which is mapped to Vinchin Backup & Recovery system, and display corresponding production host and its total size.

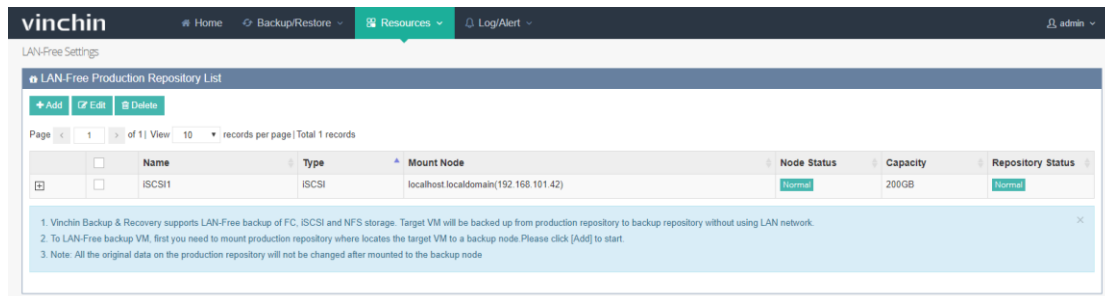
The screenshot shows the 'LAN-Free Production Repository Configurations' dialog box. The 'Storage Type' is set to 'iSCSI'. The 'ISCSI Name' is 'iqn.1994-05.com.redhat:347bf96bc2c7'. The 'ISCSI Server' is '192.168.1.183' with a port of '3260'. A 'Scan Target' button is visible. The 'Target LUN' table shows the following entries:

<input type="checkbox"/>	Name	iqn	Type	Capacity
<input checked="" type="checkbox"/>	/dev/sdc1	iqn.2002-10.com.infortrend:raid.uid335812.001 iqn.2002-10.com.infortrend:raid.uid335812.001	VMware vSphere	200GB

The 'Name' field is set to 'ISCSI1'. 'Cancel' and 'Ok' buttons are at the bottom.

Note: The recognized production LUN type is the LUN mapped hypervisor type. If the production storage belongs to an ESXI host, the Type will show VMware vSphere. If it belongs to XenServer host, the Type will show Citrix XenServer as above.

Choose a production storage and click **【OK】** , you will find the added production storage in the LAN-Free Production Repository List.



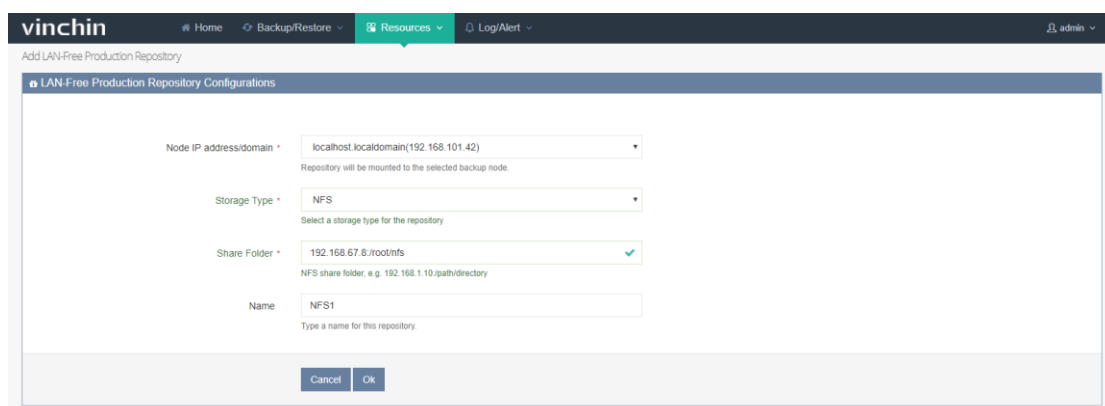
2.4.1.3.NFS Storage

Precondition: The storage type of production system is NFS.

LAN-Free configuration of NFS storage are as below:

Click **【Resources】** - **【LAN-Free Settings】**, you are coming to the LAN-Free setting page.

Click **【Add】**, and choose Storage Type as NFS, enter the storage shared folder path.

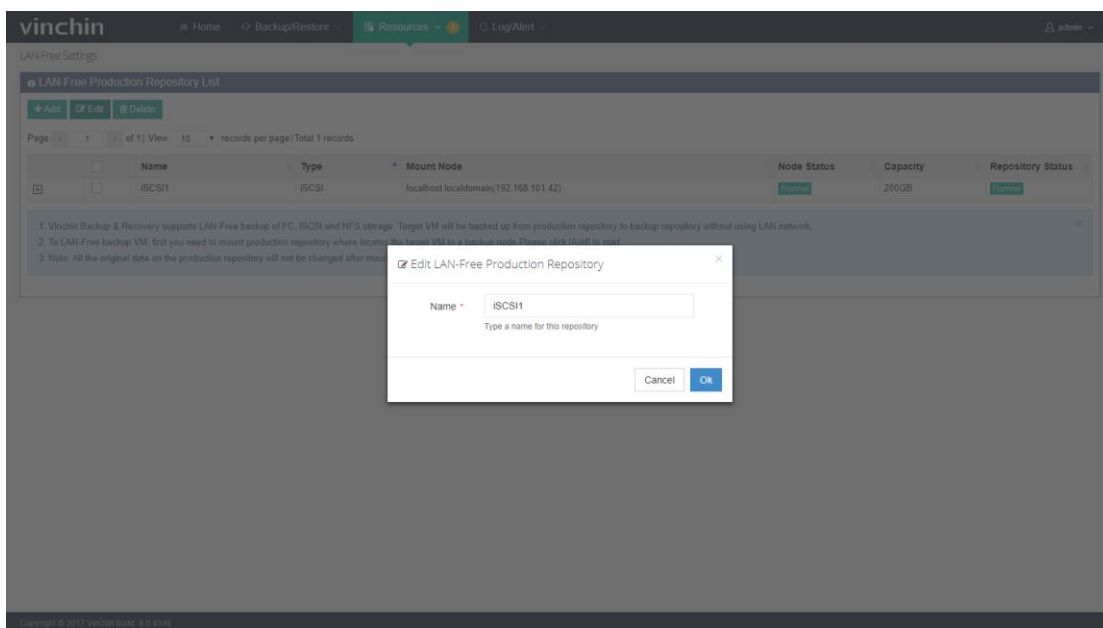
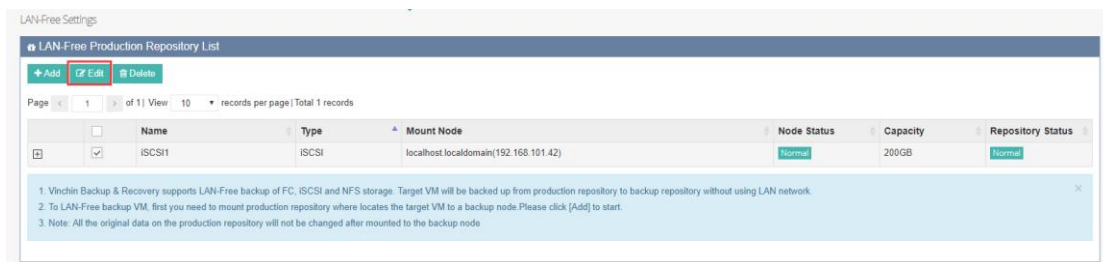


Warning: The production storage which has been mapped to the Vinchin Backup & Recovery system in LAN-Free Settings cannot be added as a backup repository! Adding a NFS storage as a backup repository will cause the production storage been formatted,

all the data in there will be erased/ lost.

2.4.2. Edit LAN-Free Repository

Choose a LAN-Free Production Repository, click **【Edit】**, you can edit a new name for this LAN-Free Production Repository.



2.4.3. Delete LAN-Free Repository

Choose a LAN-Free Production Repository, click **【Delete】** you can delete this LAN-Free Production Repository.

LAN-Free Settings

LAN-Free Production Repository List

[+ Add](#) [Edit](#) [Delete](#)

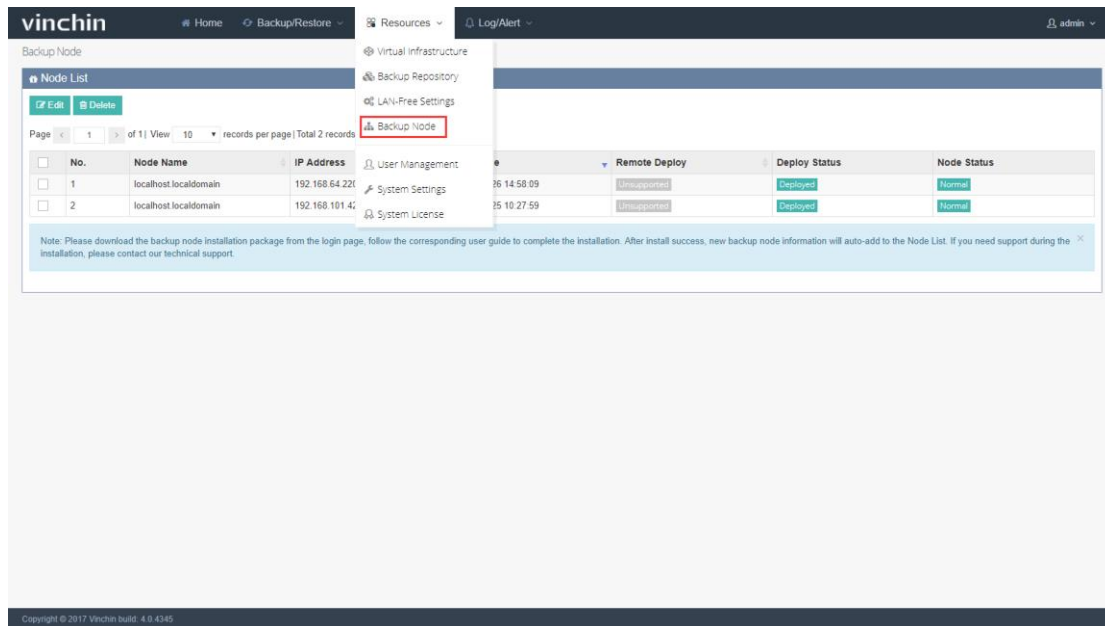
Page of 1 | View records per page | Total 1 records

<input type="checkbox"/>	Name	Type	Mount Node	Node Status	Capacity	Repository Status
<input checked="" type="checkbox"/>	ISCSI1	ISCSI	localhost.localdomain(192.168.101.42)	Normal	200GB	Normal

1. Vinchin Backup & Recovery supports LAN-Free backup of FC, ISCSI and NFS storage. Target VM will be backed up from production repository to backup repository without using LAN network.
2. To LAN-Free backup VM, first you need to mount production repository where locates the target VM to a backup node. Please click [Add] to start.
3. Note: All the original data on the production repository will not be changed after mounted to the backup node.

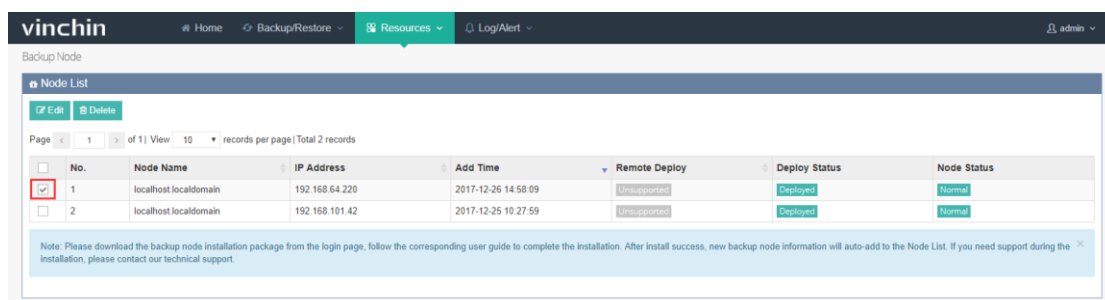
2.5. Manage Backup Nodes

Deploy the backup nodes by following 《Quick Installation Guide》 of Vinchin Backup & Recovery v4.0, then you can view all the backup nodes information in the **【Resources】** – **【Backup Node】** as below:

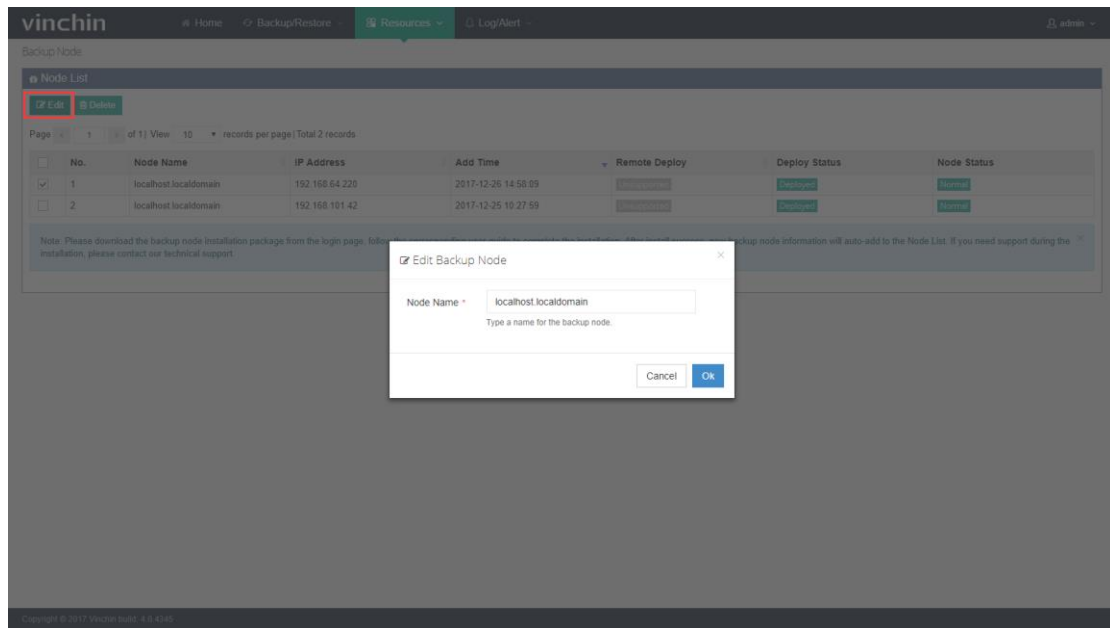


2.5.1. Edit Backup Node

Tick a backup node which you want to edit as below:

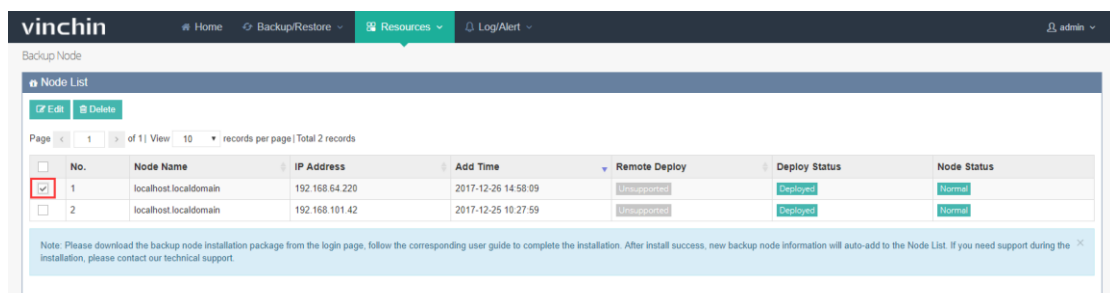


Click **【Edit】**, you can edit a new name for this node as below:

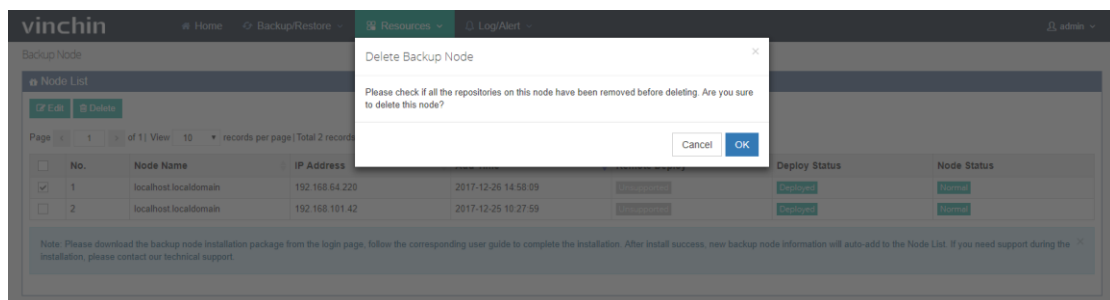


2.5.2. Delete Backup Node

Tick a backup node package you want to delete as below:



Click **【Delete】**, the system will re-confirm with you, click **【OK】** the node will be deleted as below:

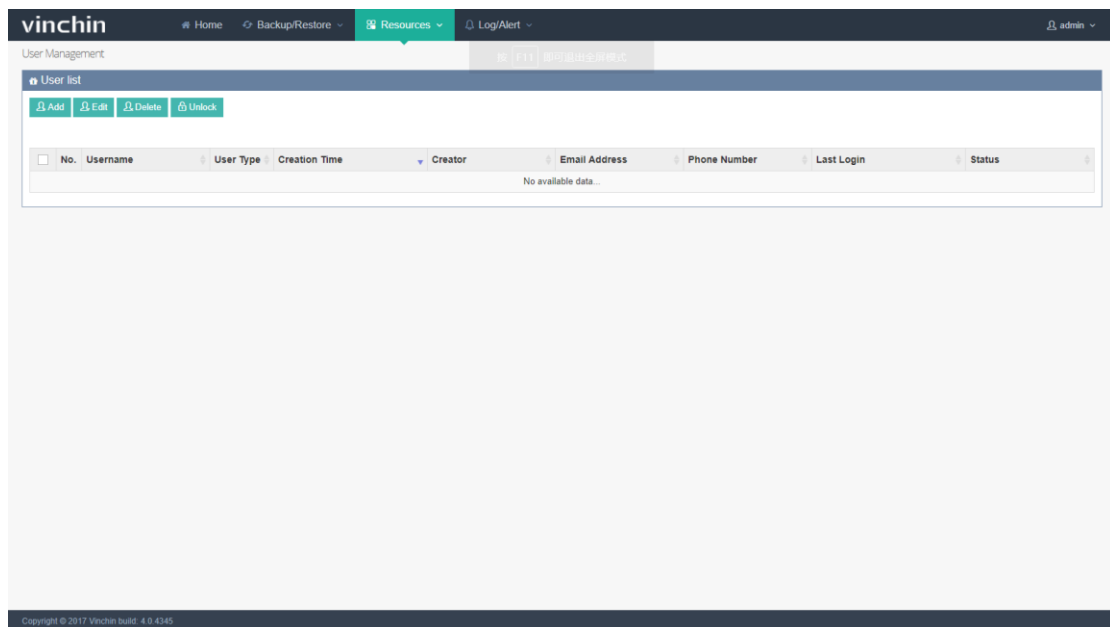
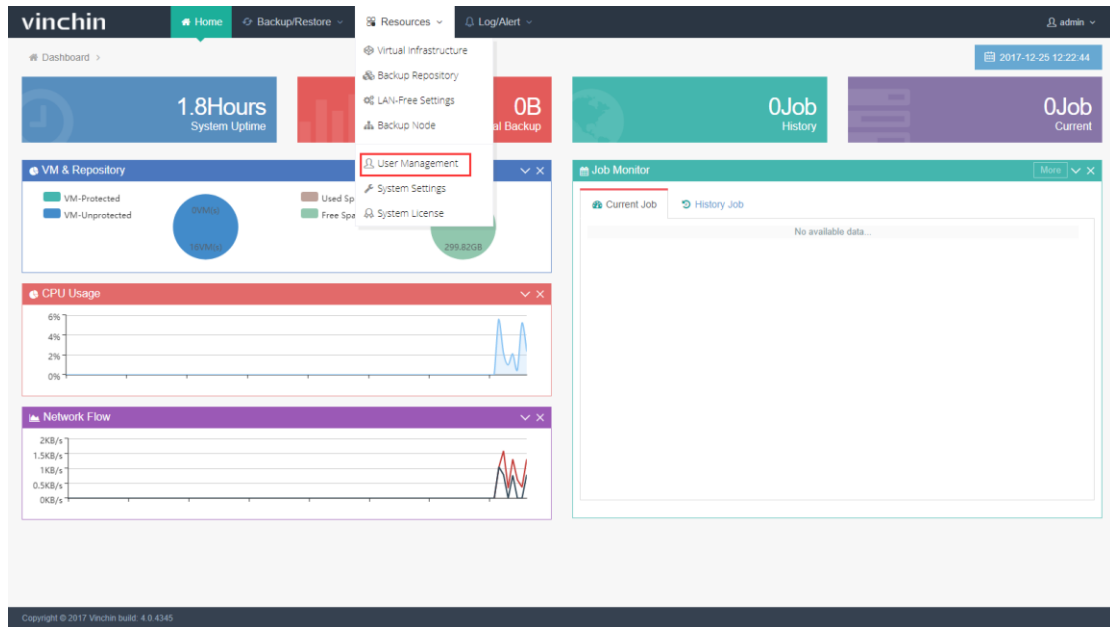


Note:

1. If there's storage mounted on this node, it is undeletable. Please delete the storage and ensure no jobs running on this node.
2. After deleting the node, you need to modify the node config file in the corresponding node system and delete the connected master node IP address.

2.6. Manage Users

Log in your administrator account, click **Resources**——**User Management** as below:



Note: Each administrator can only manage the accounts created by himself.

2.6.1. Add User

Click **【Add】** as below you are coming to the “Add New User” page.

The image shows two screenshots of the Vinchin User Management interface. The top screenshot shows the 'User list' page with a table of users and a toolbar containing 'Add', 'Edit', 'Delete', and 'Unlock' buttons. The 'Add' button is highlighted with a red box. The bottom screenshot shows the 'Add New User' page with a form for adding a new user. The form is divided into 'Basic Info' and 'User Permission' sections. The 'Basic Info' section includes fields for Username, Password, Confirm Password, Email Address, Phone Number, and User Type (set to Operator). The 'User Permission' section includes radio buttons for 'Default Permission' (selected) and 'Advanced Permission'. At the bottom of the form are 'Cancel' and 'OK' buttons. The footer of the page reads 'Copyright © 2017 Vinchin build: 4.0.4345'.

Fill in the blanks with required username, password and confirm password. Choose a user type and permission type for this new user, then click **【OK】** .

User Type includes Admin, Operator and Auditor. Default operation permissions are as below:

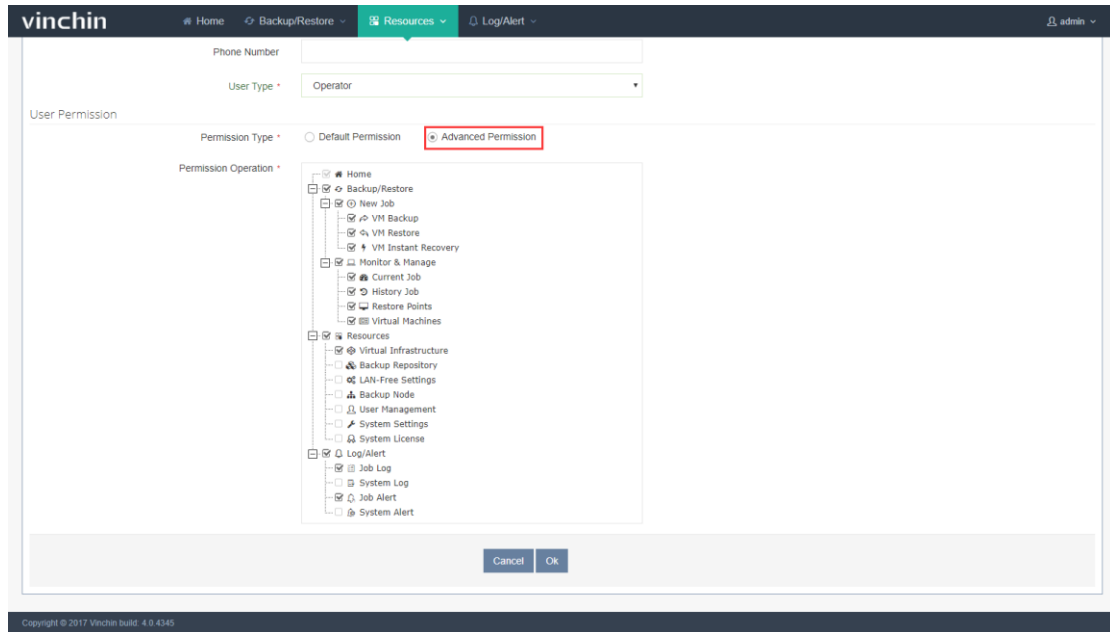
Operator: Create & perform Backup/Restore jobs, job monitor, logs/warnings etc.

Auditor: Check logs & warnings.

admin: All permissions.

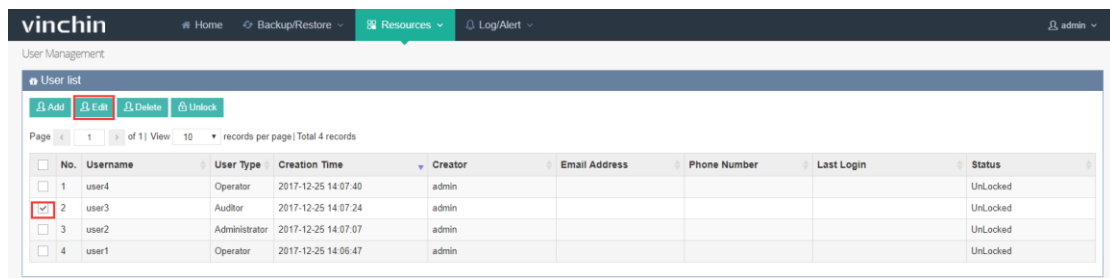
If choosing “Advanced Permission” in the “Permission Type”, you can add or cancel any permission from the default options manually, but you cannot add a permission which is

not in the default options, details as below:



2.6.2. Edit User

Tick a user from the User List, and click **【Edit】** as below you are coming to the user editing page.



vinchin Home Backup/Restore Resources Log/Alert admin

Edit User

Edit User

Basic Info

Username * user3

Password *

Confirm Password *

Email Address

Phone Number

User Type * Auditor

User Permission

Permission Type * Default Permission Advanced Permission

Permission Operation *

- Home
 - Backup/Restore
 - New Job
 - VM Backup
 - VM Restore
 - VM Instant Recovery
 - Monitor & Manage
 - Current Job
 - History Job
 - Restore Points
 - Virtual Machines
 - Resources
 - Virtual Infrastructure
 - Backup Repository
 - LAN-Free Settings
 - Backup Node
 - User Management
 - Customs KettleProc

You can edit the user's information, after finish, click **【OK】** to save the changes.

2.6.3. Delete User

Tick a user from the User List, and click **【Delete】** as below you are coming to the user deleting page.

vinchin Home Backup/Restore Resources Log/Alert admin

User Management

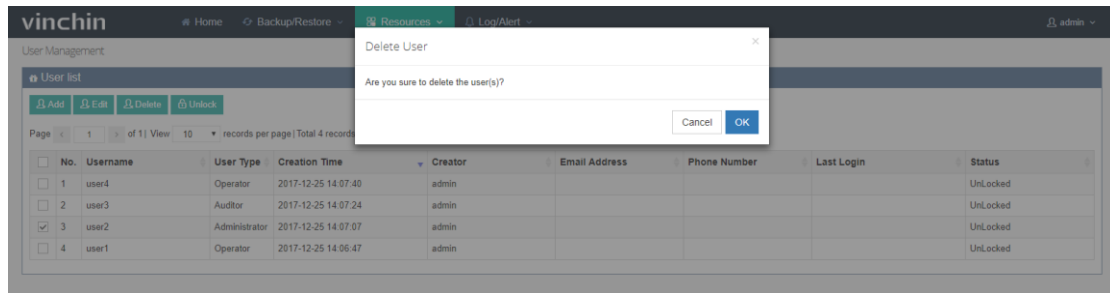
User list

Add Edit Delete Unlock

Page 1 of 1 View 10 records per page Total 4 records

No.	Username	User Type	Creation Time	Creator	Email Address	Phone Number	Last Login	Status
1	user4	Operator	2017-12-25 14:07:40	admin				UnLocked
2	user3	Auditor	2017-12-25 14:07:24	admin				UnLocked
<input checked="" type="checkbox"/>	user2	Administrator	2017-12-25 14:07:07	admin				UnLocked
4	user1	Operator	2017-12-25 14:06:47	admin				UnLocked

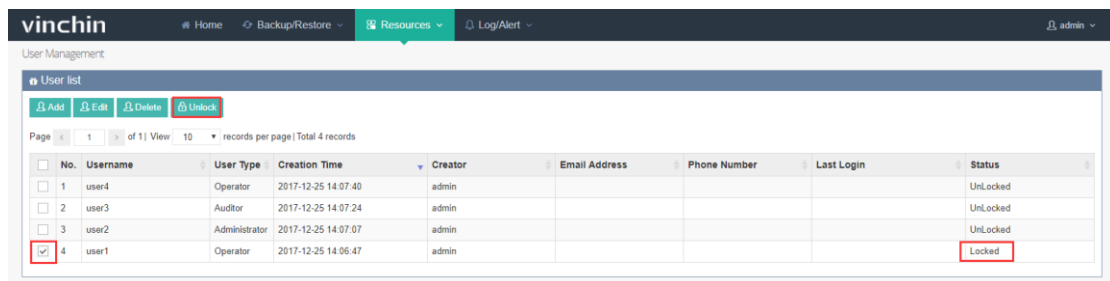
The system will re-confirm your operation as below, click **【OK】**, the user will be deleted.



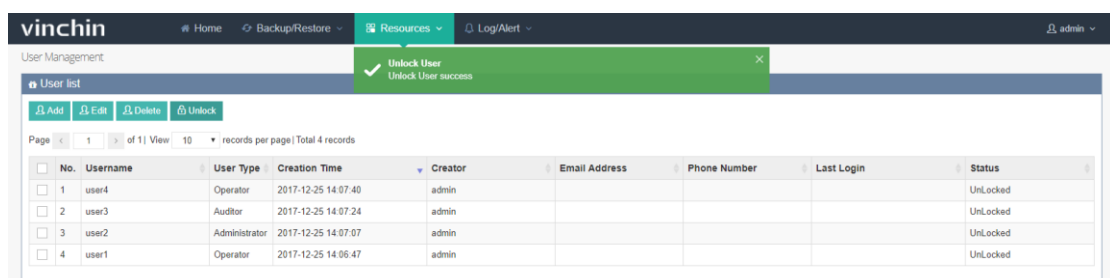
Note: Before deleting a user, you need to empty all the virtual infrastructures registered by this user. Otherwise this operation will be failed. If you are deleting the admin user account, please make sure all the users created by this admin account have been deleted.

2.6.4. Unlock User

If enter wrong password for 5 times, the account will be locked. Only the Admin has the permission to unlock the account. Log in the Admin account, click **【Resources】 - 【User Management】**, tick the locked user account as below:

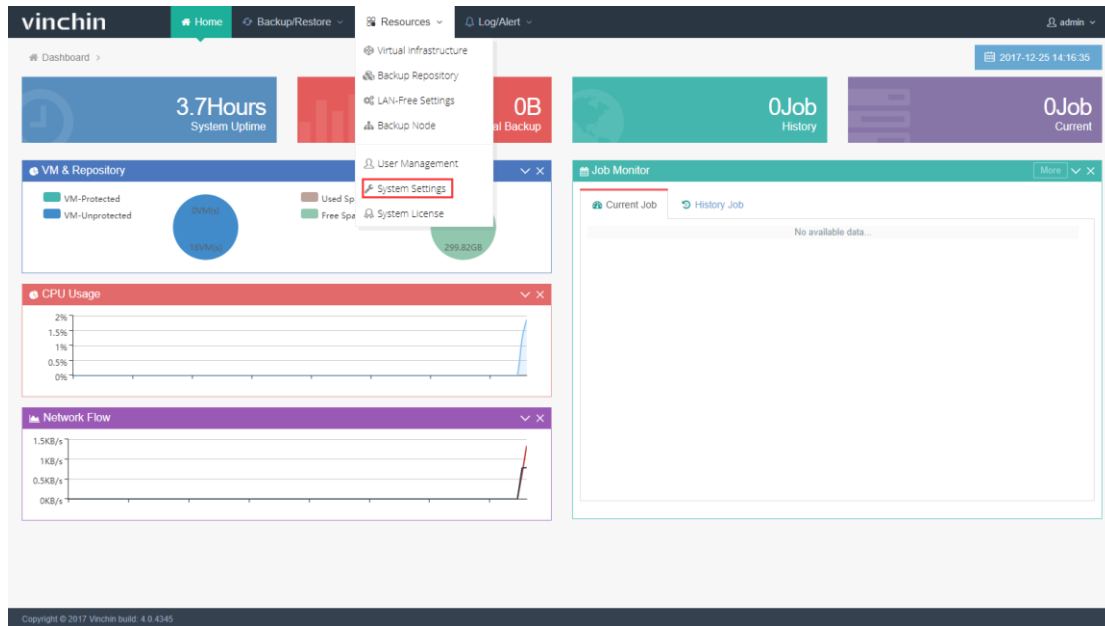


Click **【Unlock】** and this account will be unlocked immediately.



2.7. System Settings

Log in your Admin account, click **【Resources】** – **【System Settings】** as below, you are coming to the system setting page.



2.7.1. IP Settings

Click "IP Settings" you can set the IP information according to your actual network environment. Click **【OK】** to save the changes. Please make sure all the IP information are correct. Any wrong IP information will result in failure of accessing the backup system.

The screenshot shows the Vinchin System Settings page with the 'IP Settings' tab selected. The configuration fields are as follows:

- Network Interface: ens160
- IP Address: 192.168.101.42
- Subnet Mask: 255.255.192.0
- Default Gateway: 192.168.64.1
- DNS Servers: 192.168.128.2

Buttons for 'Cancel' and 'Ok' are visible at the bottom of the form.

Note: After changing IP address, please log out and re-access the login page by entering the new IP address.

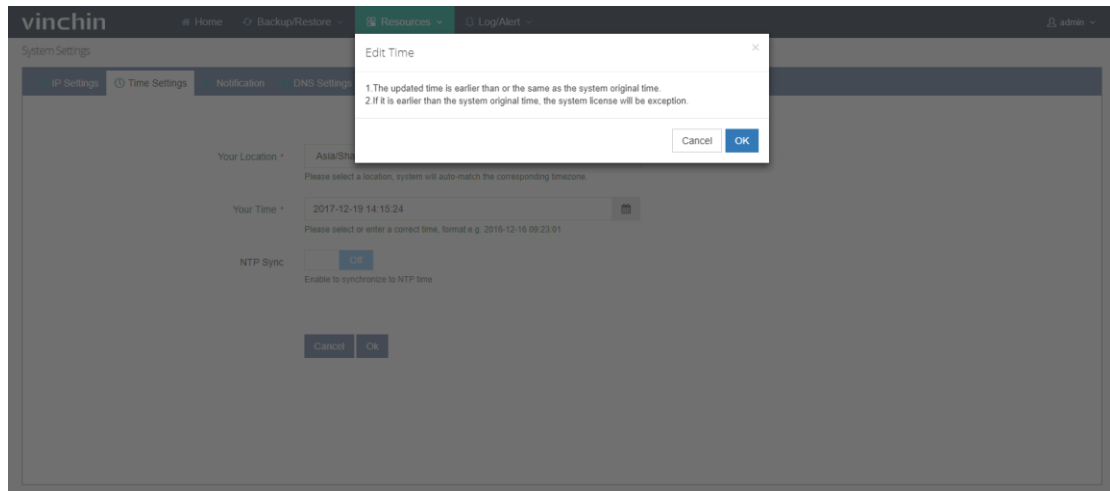
2.7.2. Time Settings

You can set the time zone, time and date according to your current location as below:

The screenshot shows the Vinchin System Settings page with the 'Time Settings' tab selected. The configuration fields are as follows:

- Your Location: America/New_York
- Your Time: 2016-01-08 21:34:26
- NTP Sync: Off

A calendar widget is displayed for January 2016, showing the date 8th selected. Buttons for 'Cancel' and 'Ok' are visible at the bottom of the form.



Warning: Please set the time details before licensing your backup system. Changing time details on a non-perpetual licensed system may cause the license error. If error happens, you need to re-license the system with new license key.

2.7.3. Email Notification

Email Notification helps users tracking the system operation such as job progress by email. Before enabling the email notification, you need to set the user's email address.

Go to the top right **admin** - **My Information** as below:

vinchin Home Backup/Restore Resources Log/Alert admin

User Information

My Information

Username admin

Email Address 123456@qq.com ✓

Phone Number 12345678900 ✓

Language English

Back Save

My Information
Change Password
Lock Screen
About Us
Help
Logout

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Fill in your email address and click **【OK】** .

Then return to the **【System Settings】** - **【Notification】** . And click "Email Test" as below:

vinchin Home Backup/Restore Resources Log/Alert admin

System Settings

IP Settings Time Settings Notification DNS Settings Restart/Poweroff

Email Notification

Email Notification: Off

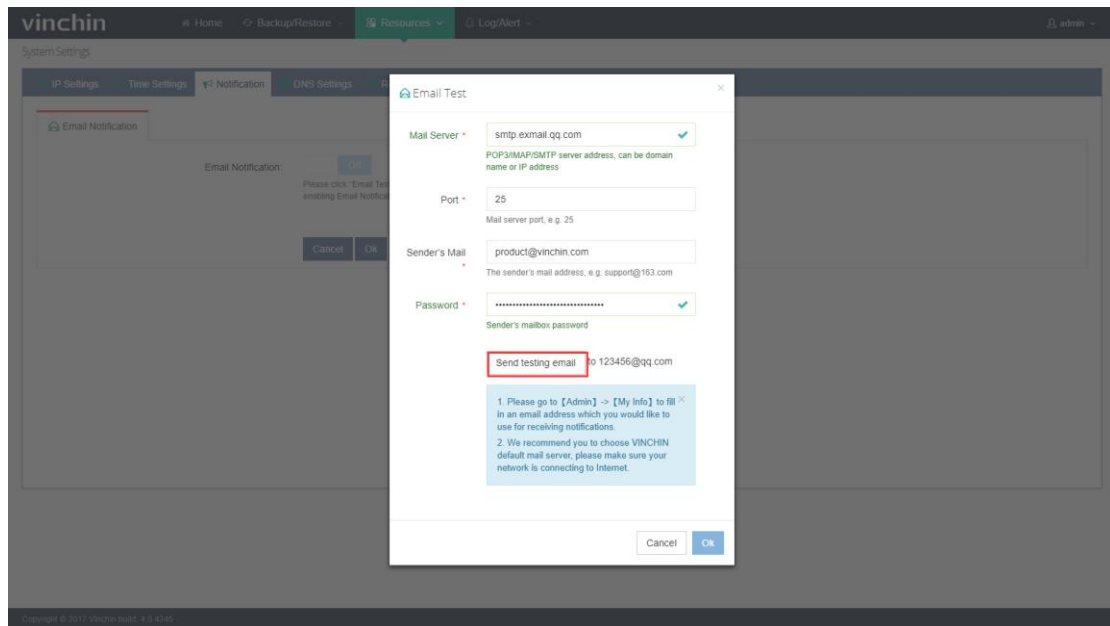
Please click "Email Test" to finish the mail server test before enabling Email Notification.

Email Test

Cancel Ok

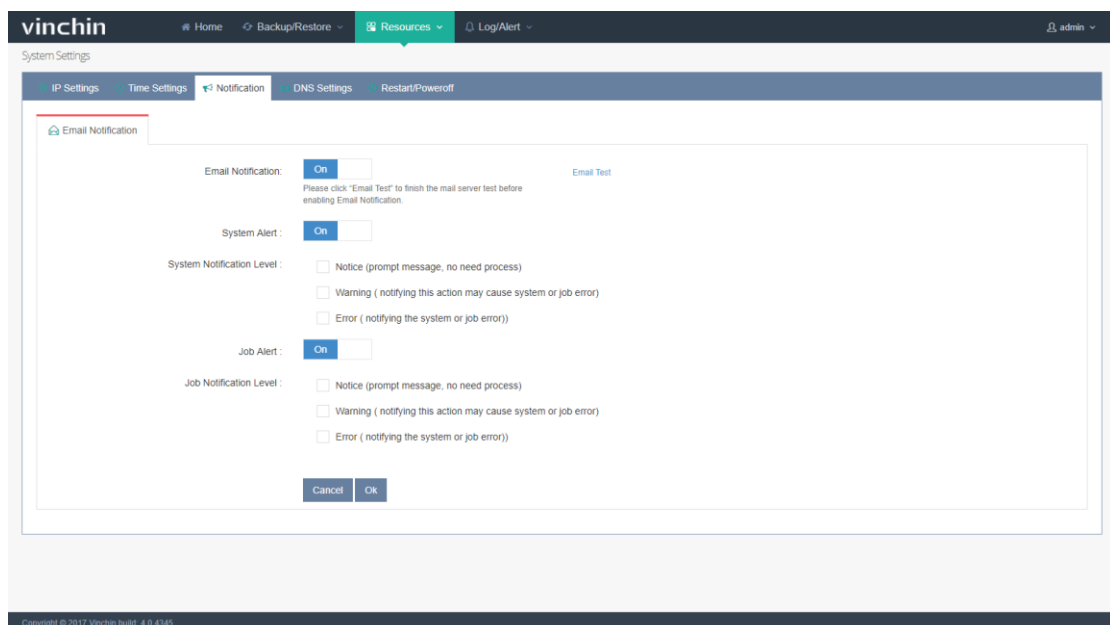
Copyright © 2017 Vinchin build: 4.0.4345

If you have your own mail server, you can change the default sender mail information to yours accordingly. We recommend you to use Vinchin sender mail server, please keep the default information and click **【Send a Test Email】** , if the sending test is succeeded, click **【OK】** as below:



Then click **【Enable】** to enable the email notification.

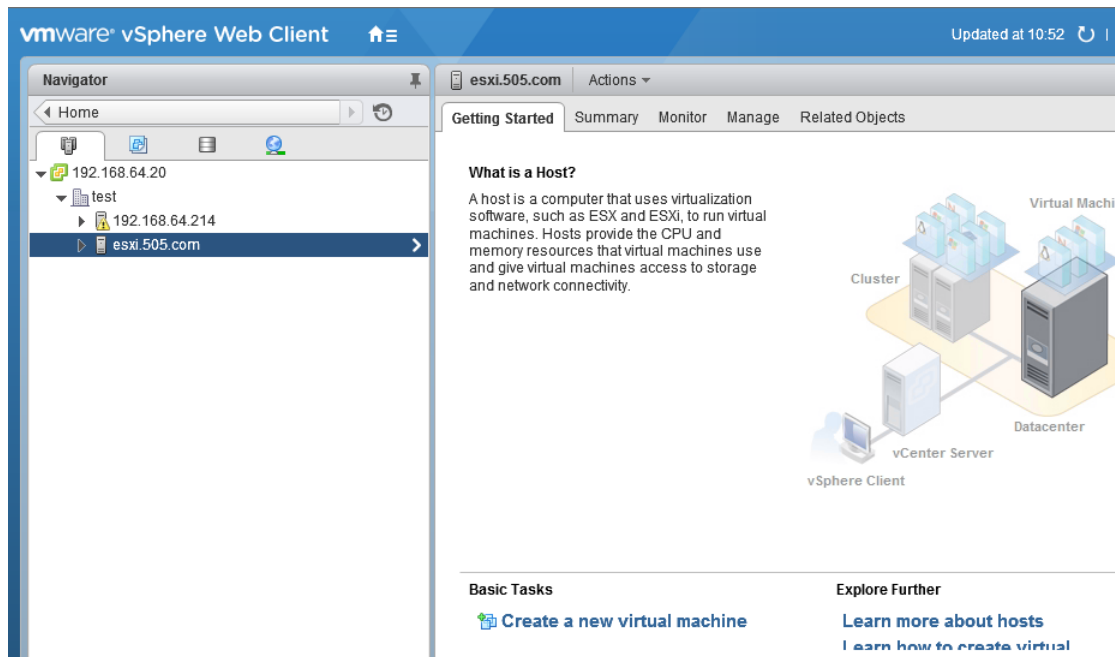
You can also choose to enable the system/job alert and set different system notification levels as below. System will send the corresponding notification to your email address.



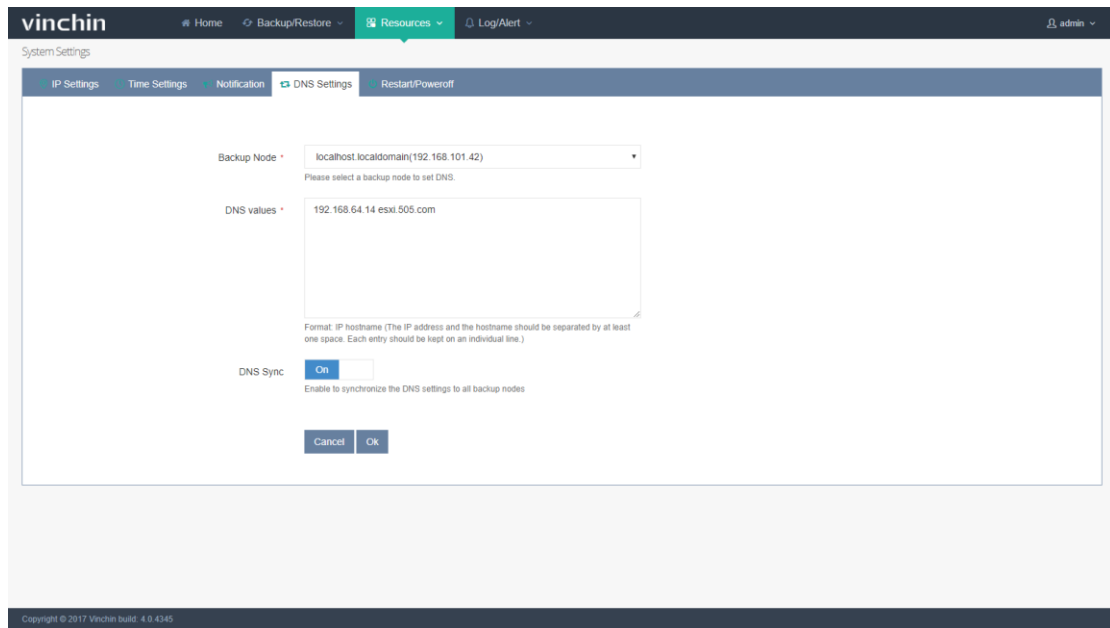
Note: Email notification is a free service. The system will automatically send notification emails to you once you enable this function.

2.7.4. DNS Settings

If an ESXi host was added to the vCenter via its domain name as below, then this ESXi host's corresponding DNS need to be configured in the Vinchin Backup & Recovery system.



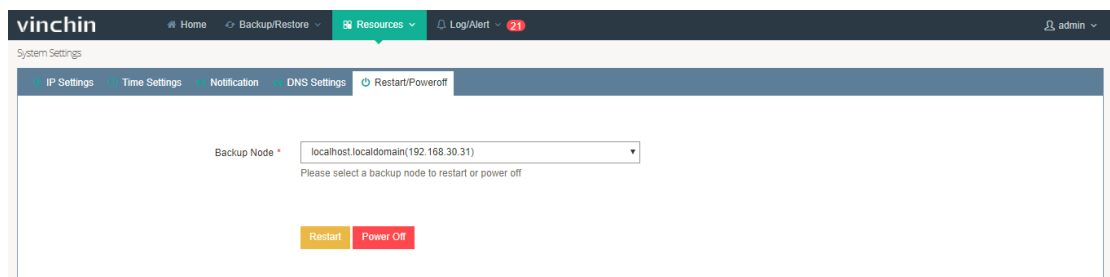
First fill in the IP address of the ESXi host and its domain name (e.g. 192.168.66.14 esxi.505.com), then click **【OK】** to save.



Note: If the Vinchin Backup & Recovery system has been deployed multiple backup nodes, please enable **【DNS Sync】**. DNS settings is available for VMware virtual infrastructure.

2.7.5. Restart & Poweroff

Choose a backup node which you want to restart or power off and click corresponding button.



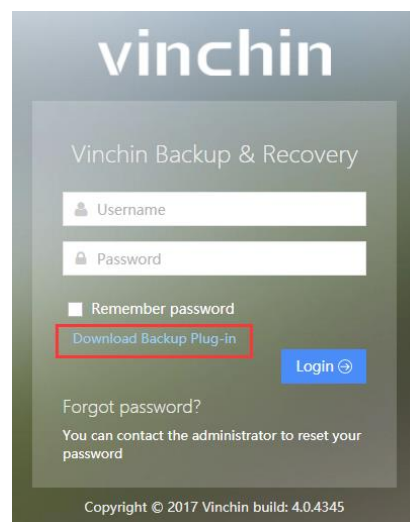
3. Backup / Restore Job

3.1. OpenStack

3.1.1. Install Backup Plugin

When backing up an OpenStack virtual environment, you need to install the OpenStack backup plugin in the OpenStack hosts.

- a) Download the backup plugin from the Vinchin Backup & Recovery system login page as below:



- b) Click "Download Backup Plug-in" → "OpenStack Compute" or "OpenStack Controller" and your corresponding software version, then click **【Download】** as below:



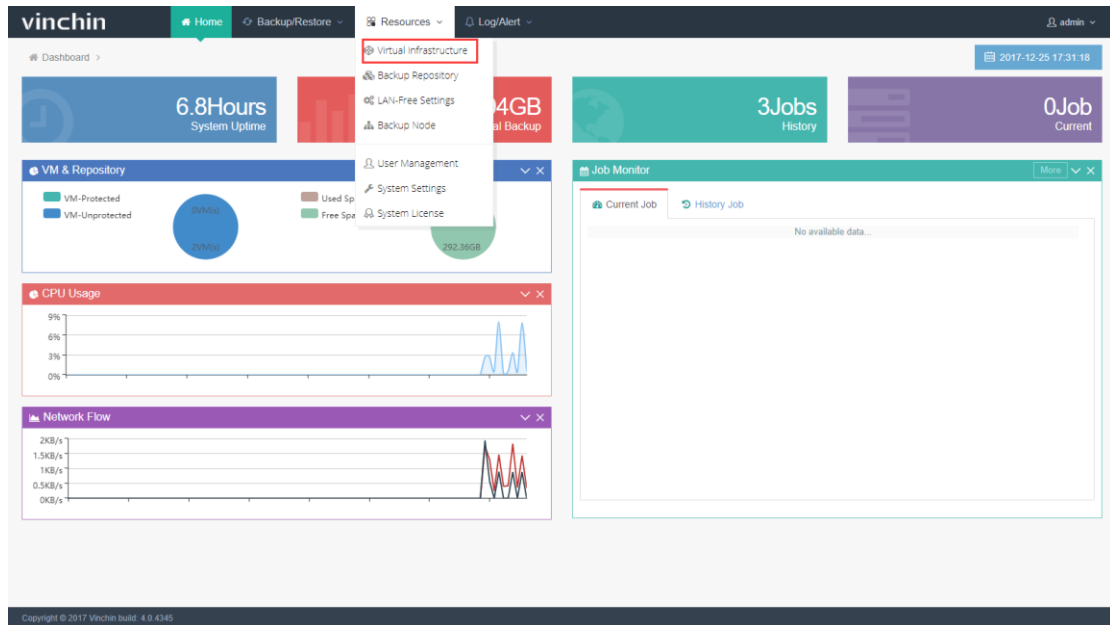
c) Copy the downloaded plugin to RHV/Ovirt host/root directory, and install as below:

```
[root@hev3 ~]# ls
anaconda-ks.cfg vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64.tar.gz
[root@hev3 ~]# tar -zxvf vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64.tar.gz
vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64/
vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64/bin/
vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64/conf/
vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64/conf/kvm_virt_server.conf.xml
vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64/conf/kvm_backup_service.conf.xml
vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64/conf/certificate.pem
vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64/conf/private_key.pem
vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64/lib/
vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64/lib/libjsoncpp.so.1.6.2
vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64/lib/libvirt.so.0.2004.0
vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64/lib/libjsoncpp.so.1
vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64/lib/libjsoncpp.so
vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64/lib/libvirt.so.0
vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64/lib/libvirt.so
vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64/kvm_virt_server
vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64/kvm_backup_service
vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64/kvm_virt_server.service
vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64/kvm_virt_server.service.old
vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64/kvm_virt_server.service.debian
vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64/kvm_backup_service.service
vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64/kvm_backup_service.service.old
vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64/kvm_backup_service.service.debian
vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64/kvm_backup_watch_dog.service.debian
vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64/kvm_backup_watch_dog.sh
vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64/kvm_backup_patch_install
vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64/kvm_backup_patch_uninstall
[root@hev3 ~]# cd vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64
[root@hev3 vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64]# ls
bin      kvm_backup_patch_install  kvm_backup_service        kvm_backup_service.service.debian  kvm_backup_watch_dog.service.debian
conf     kvm_backup_patch_uninstall  kvm_backup_service.service  kvm_backup_service.service.old      kvm_backup_watch_dog.sh
[root@hev3 vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64]# ./kvm_backup_patch_install
check the installation environment ...done
```

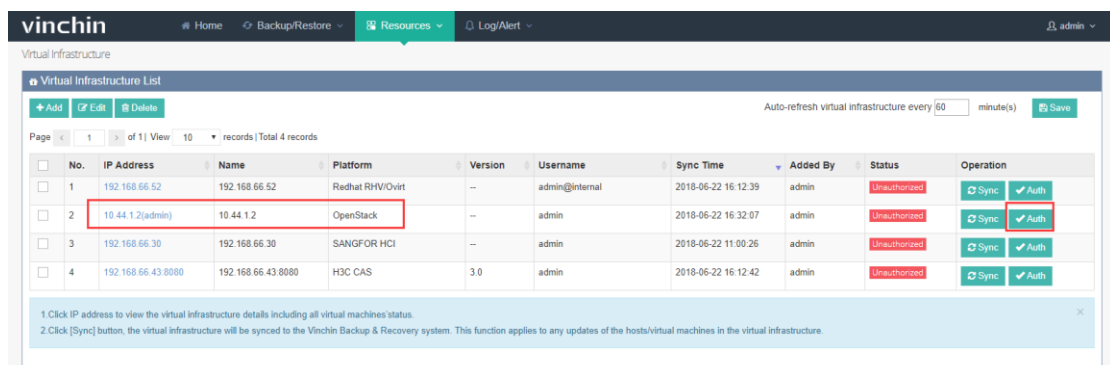
3.1.2. VM Backup

3.1.2.1. Authorize Host

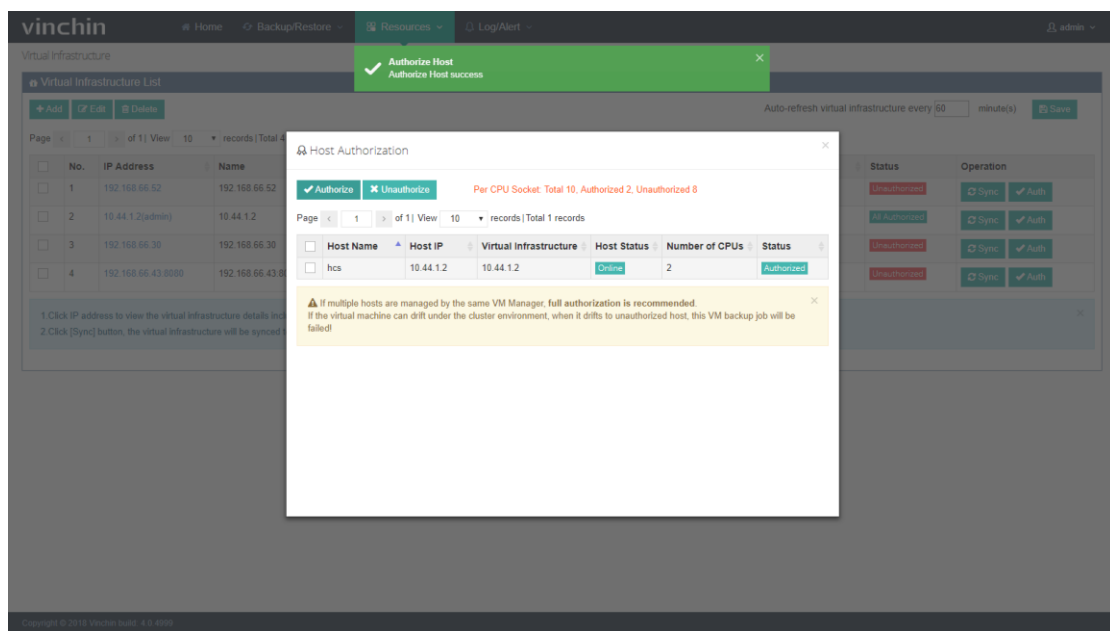
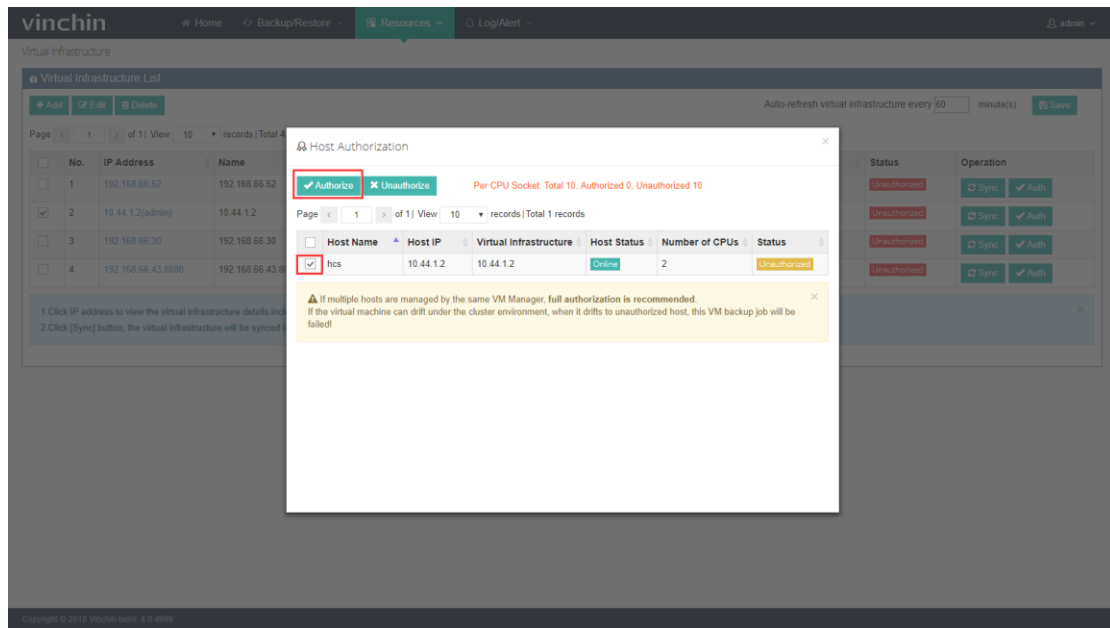
Before creating a VM backup job, you need to authorize the target hosts which you need to backup. Click **【Resources】** – **【Virtual Infrastructure】** as below:



Then you'll see the virtual infrastructure list as below, choose the target virtual infrastructure you want to backup and click **【Auth】**.



Tick the hosts under this virtual infrastructure you want to backup and click **【Authorize】**.



The system will remind you "Authorize the host success".


Note: If there's no server in the virtual infrastructure list, please add a host or virtual cluster first (please refer to Chapter 2.3.1 Add Server)

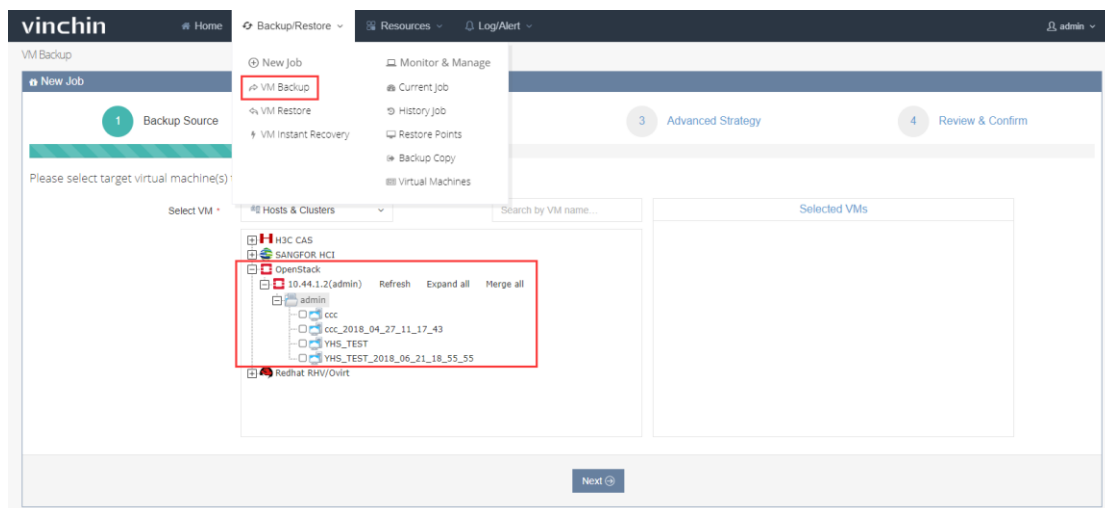
3.1.2.2. Create Backup Job

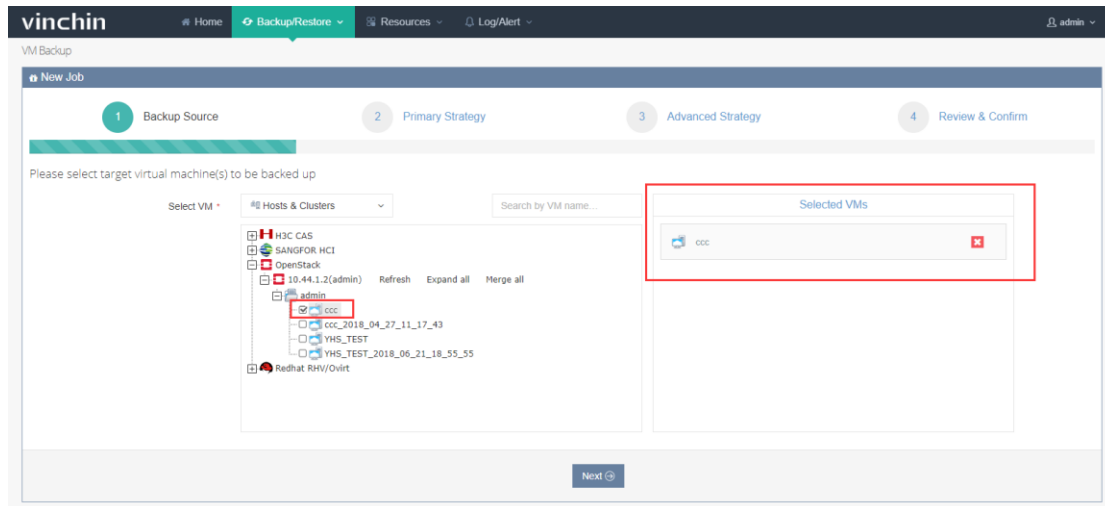
3.1.2.2.1. Backup Source

Select the virtual machines you want to backup.

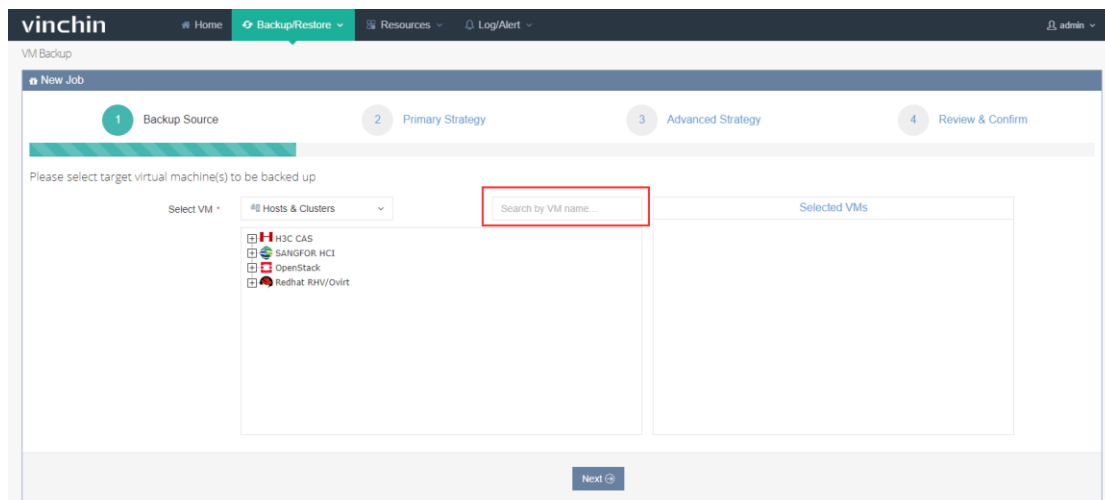
Click **Backup/Restore** – **VM Backup**, then you will see the virtualization infrastructure tree, expand the OpenStack infrastructure until you see the virtual machines. Tick any virtual machines you need to backup, they will be showing in the “Selected VM” column.

If you want to delete a selected VM, you can click  button in the right column or directly untick this VM as below:





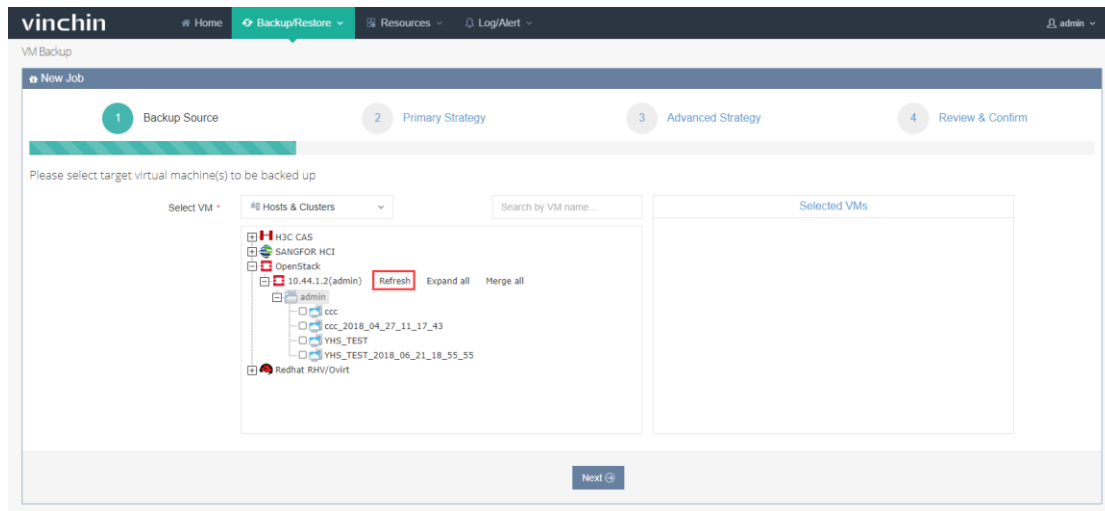
If you know the target VM name, or you know any related key words, you can directly search the VM in the search bar as below:



Note: If the VM already exists in the backup job list, it will be highlighted in Green color. And it is un-selectable.

Click **【Next】** once you complete the selection.

If your OpenStack infrastructure has been updated recently, you can click **【Refresh】** to update and sync the servers to Vinchin Backup & Recovery system as below:



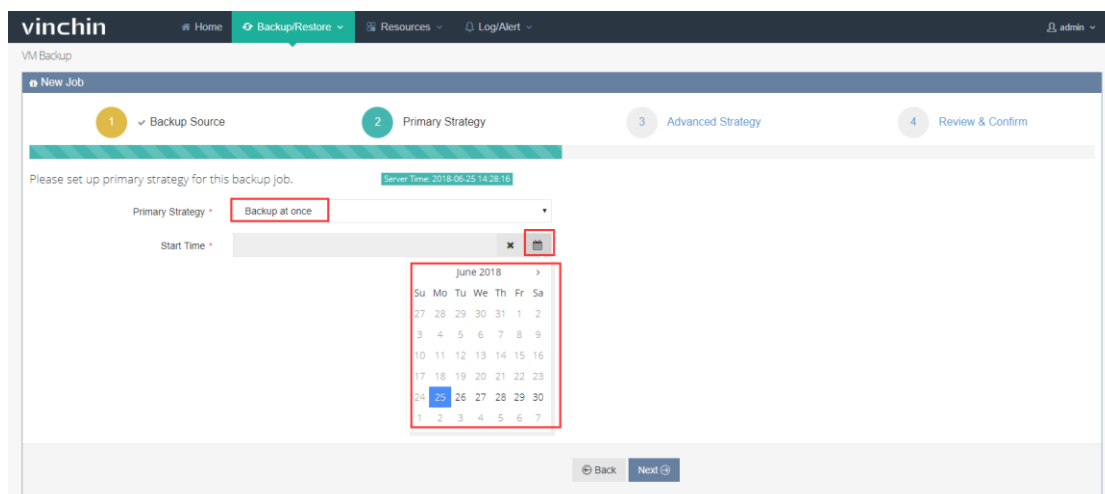
3.1.2.2.2. Primary Strategy

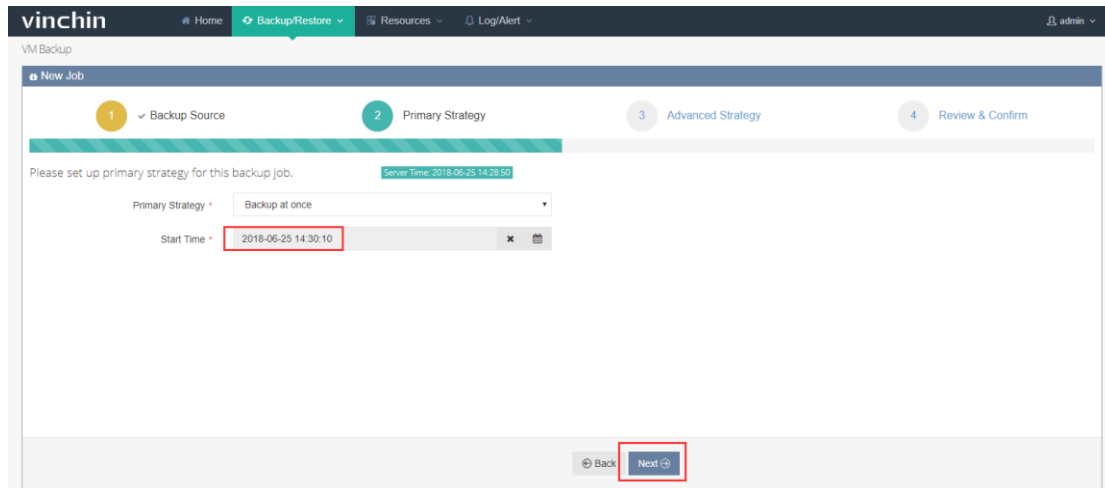
In the Primary Strategy page, there are two backup options available.

3.1.2.2.2.1. Backup at Once

The backup job only perform one time.

Choose "Backup at once", then click "📅" to choose YY/MM/DD and HH:MM:SS, then click **【Next】**, the backup job will be performed at the exact time for only once.





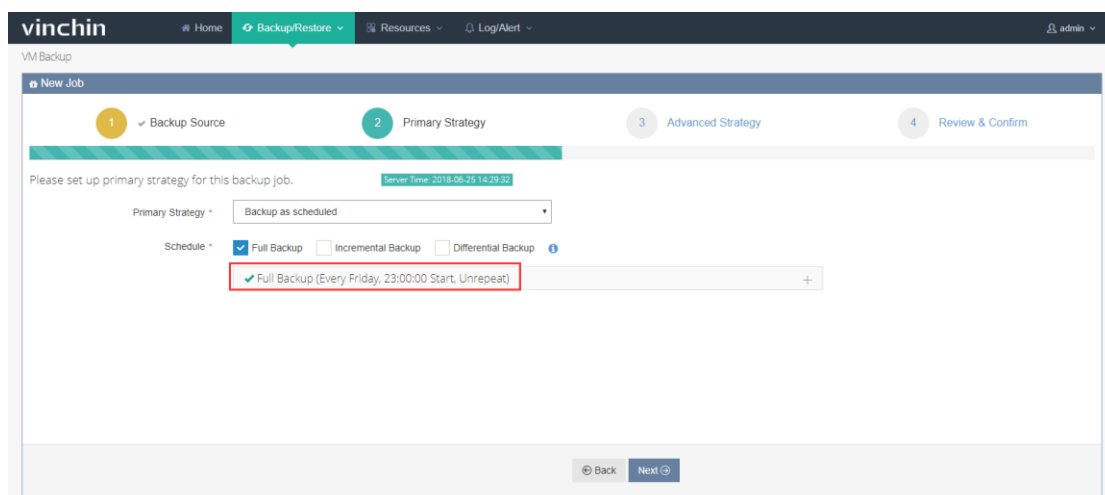
3.1.2.2.2. Backup as Scheduled

The backup job repeats as scheduled.

Choose "Backup as scheduled", then choose a Backup Strategy (Full Backup/Incremental Backup/Differential Backup).

Note: Incremental and Differential cannot be chosen at the same time.

Click the selected strategy bar as below:



Then you will see there are some schedule options, you can choose to repeat the backup job at any time in any day.

The time schedule of backup job includes 3 types: Every day, Every Week and Every Month.

- Every Day schedule only needs to set Start Time as below:

- Every Week schedule needs to choose which days to perform the backup job, details as below:

VM Backup

New Job

1 Backup Source 2 Primary Strategy 3 Advanced Strategy 4 Review & Confirm

Please set up primary strategy for this backup job. Server Time: 2017-12-25 17:59:28

Primary Strategy: Backup as scheduled

Schedule:

- Full Backup
- Incremental Backup
- Differential Backup

Full Backup (Every Day 23:00:00Start, Unrepeat)

Incremental Backup (Every Monday, Wednesday, Friday, 23:00:00Start, Unrepeat)

Every Day Every Week Every Month

Every Week: Monday Tuesday Wednesday Thursday Friday Saturday Sunday

Start Time: 23:00:00

Repeat: OFF

Back Next

- Every Month schedule is similar with Every Week schedule, needs to choose which days to perform the backup job, details as below:

VM Backup

New Job

1 Backup Source 2 Primary Strategy 3 Advanced Strategy 4 Review & Confirm

Please set up primary strategy for this backup job. Server Time: 2017-12-25 17:59:55

Primary Strategy: Backup as scheduled

Schedule:

- Full Backup
- Incremental Backup
- Differential Backup

Full Backup (Every Day 23:00:00Start, Unrepeat)

Incremental Backup (Every Month Day1, Day15, 23:00:00Start, Unrepeat)

Every Day Every Week Every Month

Every Month: 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Start Time: 23:00:00

Repeat: OFF

Back Next

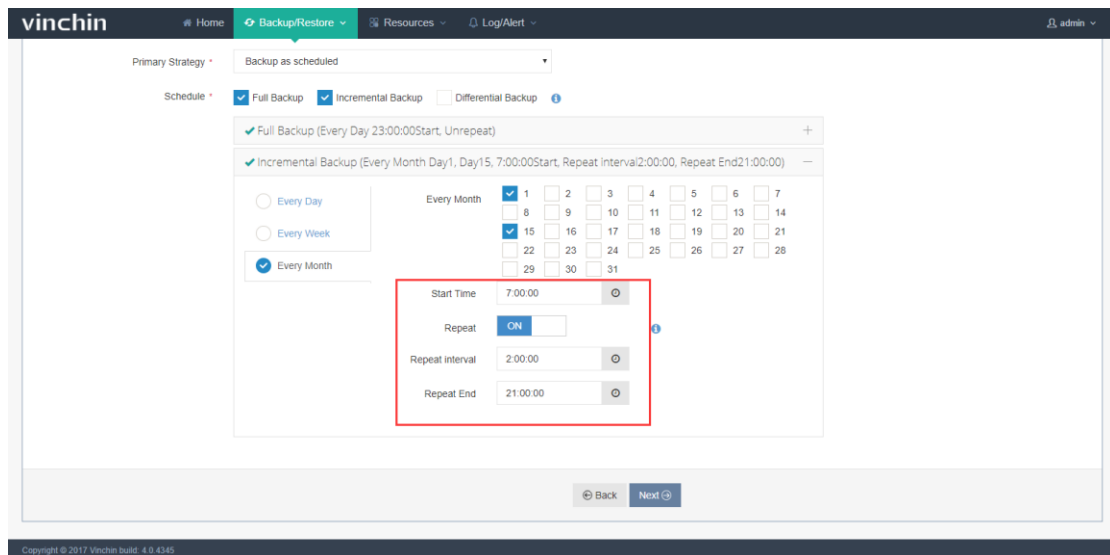
Set the backup "Start Time" and choose whether to enable the "Repeat".

"Repeat" means repeatedly perform the backup job every xx hours/minutes/seconds.

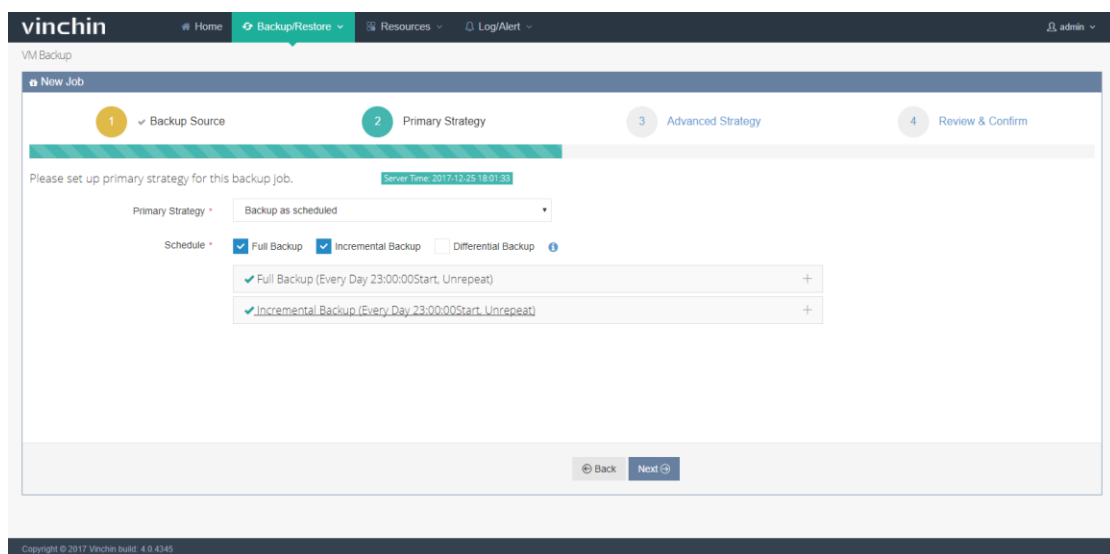
Once enable the "Repeat" option, you need to set the time of "Repeat Interval" and

"Repeat End" accordingly.

(Example: Choose Every Month schedule, and tick day 1 and day 15, set the Start Time as 7:00:00, and enable the "Repeat", Repeat Interval Time 2:00:00 and Repeat End Time 21:00:00. This schedule means on 1st and 15th of each month, this backup job will start running from 7:00am, and it will repeat once every 2 hours until 9:00pm of the day.)



After finishing the settings, there will be a green ✓ in front of the schedule, it means the schedule setting is saved. Then click **【Next】**:



Incremental backup is backup the changes made since the last incremental backup.

Differential backup is backup the changes made since the last full backup, every new differential backup relies on the same full backup.

Generally it is recommended to do a full backup every week/every month, and do an incremental backup every day.

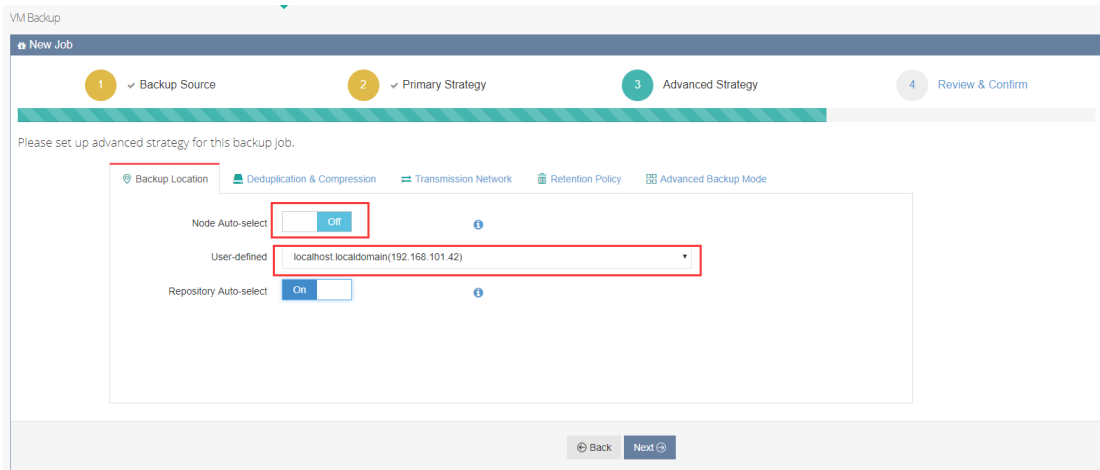
3.1.2.2.3. Advanced Strategy

3.1.2.2.3.1. Backup Location

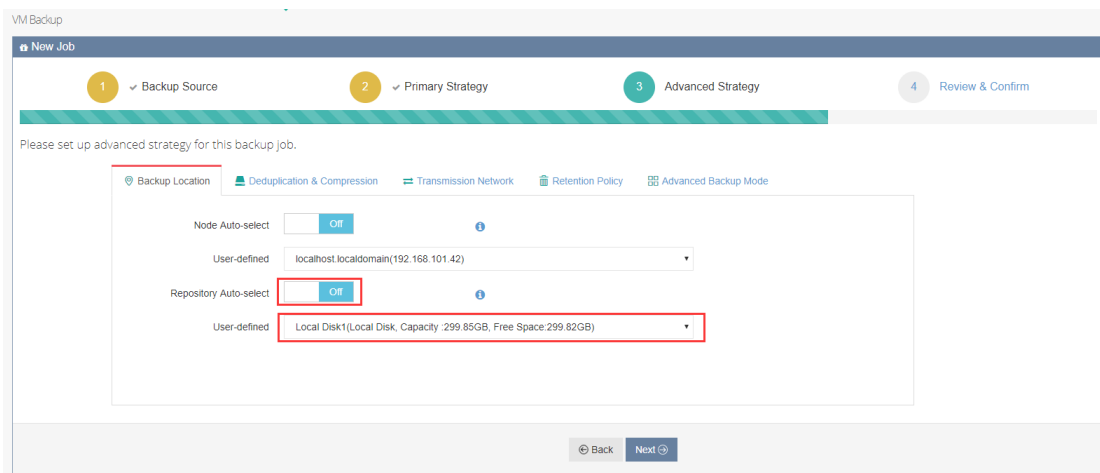
Select a repository to store the backed up data. You can enable the "auto-select", then the backup data will be automatically stored to an optimized repository. You can disable the "auto-select" to specify a repository for the backup data.

The screenshot displays the 'Advanced Strategy' configuration page in the Vinchin VM Backup interface. The page is titled 'VM Backup' and 'New Job'. The progress bar indicates the current step is '3. Advanced Strategy'. The main content area is titled 'Please set up advanced strategy for this backup job.' and contains several tabs: 'Backup Location', 'Deduplication & Compression', 'Transmission Network', 'Retention Policy', and 'Advanced Backup Mode'. The 'Backup Location' tab is selected and shows two sections: 'Node Auto-select' with a toggle set to 'Off' and a dropdown menu showing 'localhost.localdomain(192.168.101.42)'; and 'Repository Auto-select' with a toggle set to 'Off' and a dropdown menu showing 'Local Disk1(Local Disk, Capacity: 299.85GB, Free Space: 291.67GB)'. At the bottom of the form are 'Back' and 'Next' buttons.

If you have added multiple backup nodes as alternative backup repository, you need to select one node first. Click the blue button to disable the “Node Auto-Select”, select one available node as below:



If you prefer to specify a backup repository under this node, disable the “Repository Auto-Select” and specify a selectable repository for this backup job.



If you prefer to let the system select the optimized repository, keep the “Node Auto-Select” or/and “Repository Auto-Select” enabled.

VM Backup

New Job

1 Backup Source 2 Primary Strategy 3 Advanced Strategy 4 Review & Confirm

Please set up advanced strategy for this backup job.

Backup Location Deduplication & Compression Transmission Network Retention Policy Advanced Backup Mode

Node Auto-select On

Back Next

VM Backup

New Job

1 Backup Source 2 Primary Strategy 3 Advanced Strategy 4 Review & Confirm

Please set up advanced strategy for this backup job.

Backup Location Deduplication & Compression Transmission Network Retention Policy Advanced Backup Mode

Node Auto-select Off

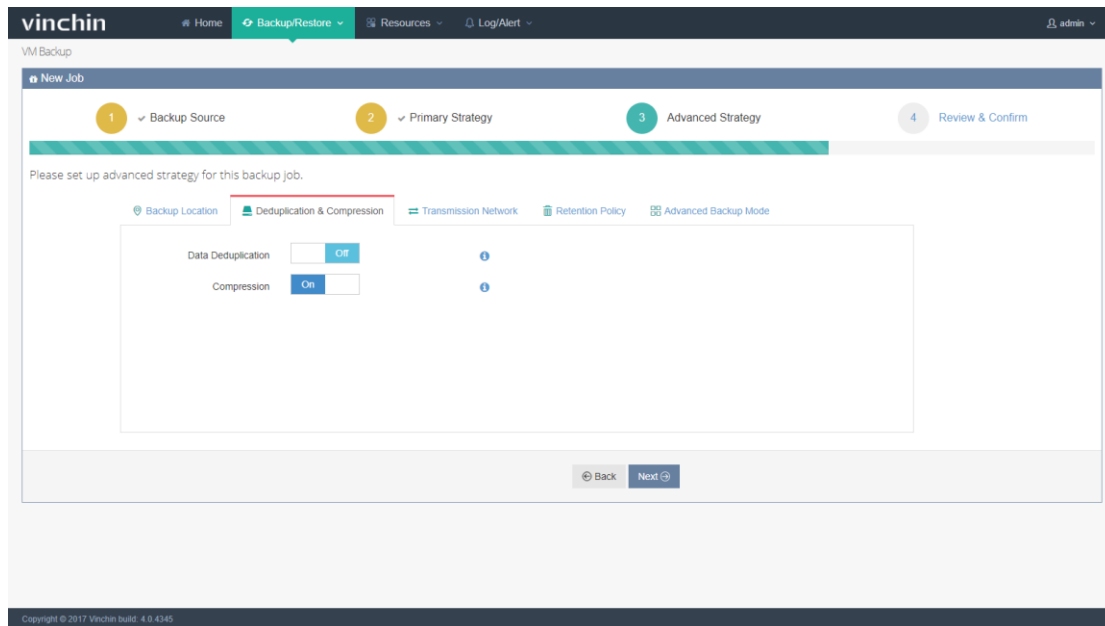
User-defined localhost.localdomain(192.168.101.42)

Repository Auto-select On

Back Next

3.1.2.2.3.2. Deduplication & Compression

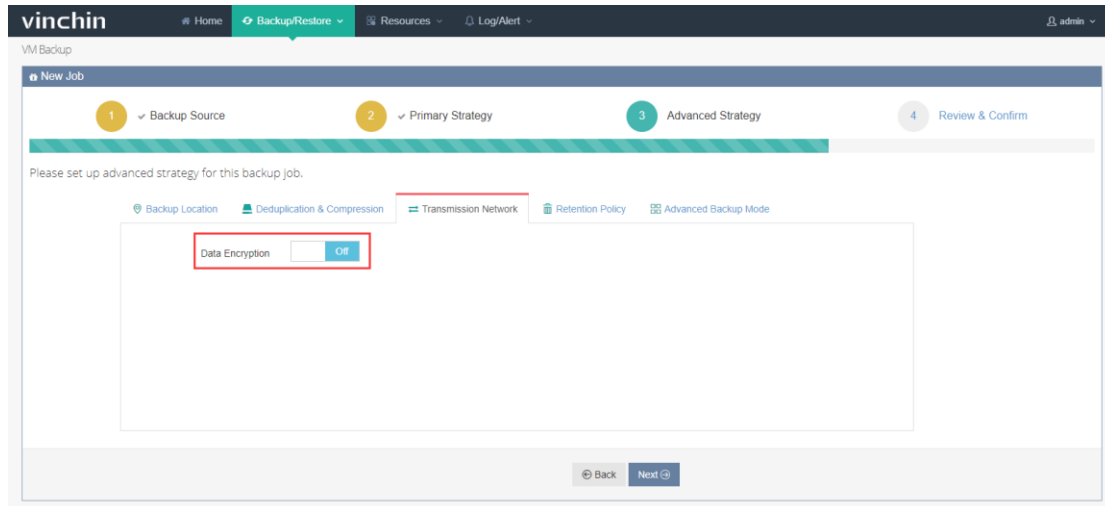
Choose to enable/disable data deduplication and data compression.



- Data Deduplication: Enable it to delete the duplicated data, can reduce the total backup size.
- Compression: Enable it to compress the backup data size, can reduce the total backup size.

3.1.2.2.3.3. Transmission Network

Click **【Transmission Network】** , you can choose to enable the **【Data Encryption】** , the backed up data will be encrypted during transferring from the backup source to backup repository.



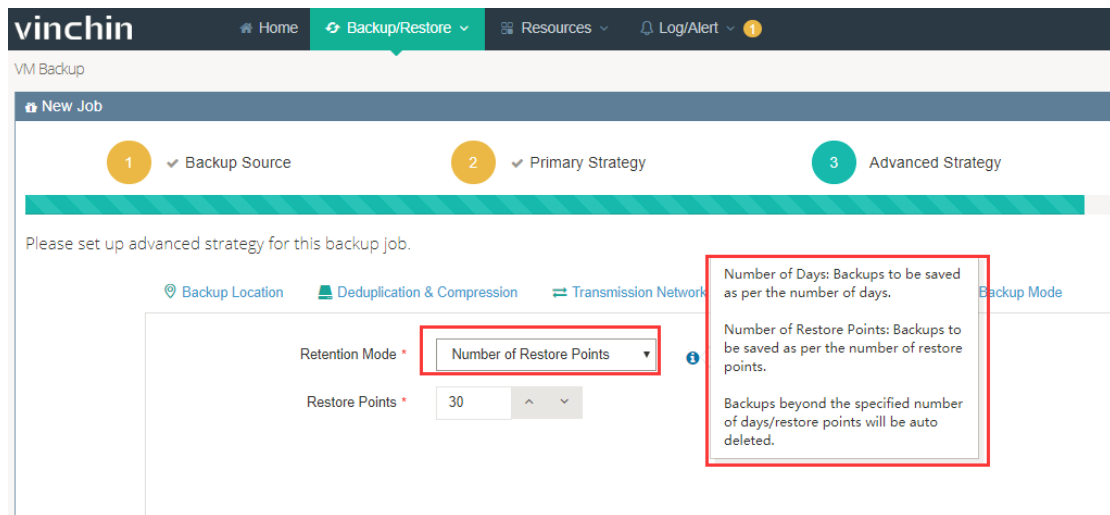
3.1.2.2.3.4. Retention Policy

Backup retention policy is a policy to reserve backup data on disk according to number of days/restore points. Old restore points out of date/over range will be auto-deleted.

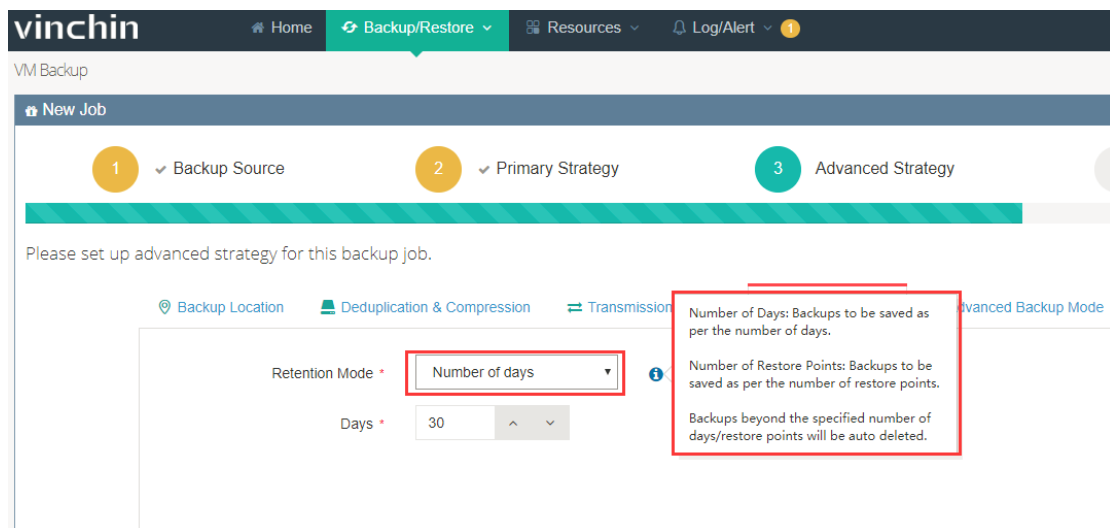
For OpenStack, the retention policy is based on full backup time points. It will lead a deletion of the furthest full backup point together with its corresponding incremental or differential backup points when a new full backup point is generated.

Retention Policy includes "Number of Restore Points" and "Number of Days", details as below:

Number of Restore Points: Restore points will be reserved according to number limitation.



Number of Days: Restore points will be reserved according to days limitation.



3.1.2.2.3.5. Advanced Backup Mode

1) Standard Snapshot (Serial snapshot / parallel snapshot)

✓ Serial snapshot: taking snapshot of each VM in turn and complete transfer in turn.

- ✓ Parallel snapshot: taking snapshot of all VMs concurrently and complete transfer in turn. It is necessarily to be chosen when there's business relationship between the VMs or backup time consistency is required of all the VMs.

1 Backup Source 2 Primary Strategy 3 Advanced Strategy

Set up advanced strategy for this backup job.

Backup Location Deduplication & Compression Transmission Network Retention

Standard Snapshot	Serial
SpeedKit	Parallel

Serial: Taking snapshot of each virtual machine and completing transfer in turn.

Parallel: Taking snapshot of all virtual machines concurrently and completing transfer in turn. It is not recommended to be selected unless there's business relationship between the VMs or when time consistency of all backup data is required.

Back Next

2) SpeedKit

SpeedKit is a Vinchin developed technology to improve the computing speed of changed data when doing an incremental backup. Enabling "SpeedKit" can help to improve backup efficiency.

Note: Enabling "SpeedKit", the system will keep one snapshot for each VM in the backup storage when doing incremental backup everytime, so you must make sure your backup storage space is sufficient.

1 ✓ Backup Source 2 ✓ Primary Strategy 3 Advanced Strategy

up advanced strategy for this backup job.

Backup Location Deduplication & Compression Transmission Network Retention Policy **Advanced Backup Mode**

Standard Snapshot Serial

SpeedKit On

SpeedKit can help improving the computing speed of changed blocks when doing incremental backups. It is recommended to be enabled if you want a faster backup. (Precondition: Your storage space is large enough.)

Back Next

3.1.2.2.4. Review & Confirm

After finish, you are able to review and confirm the settings. Click **【Submit】** if confirm, the backup job creation will be completed.

vinchin Home Backup/Restore Resources Log/Alert admin

VM Backup

New Job

1 ✓ Backup Source 2 ✓ Primary Strategy 3 ✓ Advanced Strategy 4 Review & Confirm

Please review and confirm your configurations.

Job Name :
Default job name could be modified.

Backup Source : 10.44.1.2/admin/coc
OpenStack Backup

Primary Strategy : Backup as scheduled
Backup Schedule : Full Backup (Every Friday, 23:00:00 Start, Unrepeat)
Incremental Backup (Every Day 23:00:00 Start, Unrepeat)

Advanced Strategy :
Backup Location : Node Auto-select : ON
Deduplication & Compression : Data Deduplication : OFF
Compression : ON
Transmission Network : Data Encryption : OFF
Retention Policy : 30 days
Advanced Backup Mode : SpeedKit : ON
Standard Snapshot : Serial

Back Submit

Note: You can change the Job name before submitting.

3.1.2.3. Perform Backup Job

After creating a new backup job, you will see this job in the “Current Job List” as below:

Job Name	Platform	Job Type	Creation Time	Status	Speed	Creator	Operation
OpenStack Backup1	OpenStack	Backup	2018-06-22 18:22:03	Pending	--	admin	Options
Redhat RHV/Ovirt Backup3	Redhat RHV/Ovirt	Backup	2018-06-22 15:18:22	Pending	--	admin	Options
Redhat RHV/Ovirt Instant Recovery1	Redhat RHV/Ovirt	Instant Recovery	2018-06-22 15:14:46	Stopped	--	admin	Options
Redhat RHV/Ovirt Backup2	Redhat RHV/Ovirt	Backup	2018-06-22 14:33:21	Stopped	--	admin	Options
Redhat RHV/Ovirt Backup1	Redhat RHV/Ovirt	Backup	2018-06-22 12:16:15	Pending	--	admin	Options
H3C CAS Instant Recovery1	H3C CAS	Instant Recovery	2018-06-21 16:31:53	Stopped	--	admin	Options

Tip: Click job name you can view the job details.

Click “+”, you can review the backup schedules of this job as below:

Job Name	Platform	Job Type	Creation Time	Status	Speed	Creator	Operation
OpenStack Backup1	OpenStack	Backup	2018-06-22 18:22:03	Pending	--	admin	Options
Full Backup: Every Friday, 23:00:00 Start, Unrepeat Incremental Backup: Every Day 23:00:00 Start, Unrepeat Retention Policy: 30 days							
Redhat RHV/Ovirt Backup3	Redhat RHV/Ovirt	Backup	2018-06-22 15:18:22	Pending	--	admin	Options
Redhat RHV/Ovirt Instant Recovery1	Redhat RHV/Ovirt	Instant Recovery	2018-06-22 15:14:46	Stopped	--	admin	Options
Redhat RHV/Ovirt Backup2	Redhat RHV/Ovirt	Backup	2018-06-22 14:33:21	Stopped	--	admin	Options
Redhat RHV/Ovirt Backup1	Redhat RHV/Ovirt	Backup	2018-06-22 12:16:15	Pending	--	admin	Options
H3C CAS Instant Recovery1	H3C CAS	Instant Recovery	2018-06-21 16:31:53	Stopped	--	admin	Options

Tip: Click job name you can view the job details.

Click **Options**, you will see operation options including Activate Incr.(Incremental Backup), Activate Diff.(Differential Backup), Activate Full(Full Backup) and Stop. Choose one option to start or stop the backup job.

Current Job

Job List

Page 1 of 1 | View 10 records | Total 6 records

Job Name	Platform	Job Type	Creation Time	Status	Speed	Creator	Operation
OpenStack Backup1	OpenStack	Backup	2018-06-22 18:22:03	Pending	--	admin	Options
Redhat RHV/Ovirt Backup3	Redhat RHV/Ovirt	Backup	2018-06-22 15:18:22	Pending	--	admin	Options
Redhat RHV/Ovirt Instant Recovery1	Redhat RHV/Ovirt	Instant Recovery	2018-06-22 15:14:46	Stopped	--	admin	Options
Redhat RHV/Ovirt Backup2	Redhat RHV/Ovirt	Backup	2018-06-22 14:33:21	Stopped	--	admin	Options
Redhat RHV/Ovirt Backup1	Redhat RHV/Ovirt	Backup	2018-06-22 12:16:15	Pending	--	admin	Options
H3C CAS Instant Recovery1	H3C CAS	Instant Recovery	2018-06-21 16:31:53	Stopped	--	admin	Options

Tip: Click job name you can view the job details.

Note: If you choose incremental backup or differential backup, the backup job will automatically change to full backup when the first time you perform it. After then the backup jobs will be repeated time by time as scheduled.

If you want to stop this backup job, click **【Stop】** button. After stopped, if you want to re-activate this backup job, you can click **【Options】** → **【Enable Schedule】** to backup as scheduled if necessary or Activate, edit, delete the backup job according to your demands.

Current Job

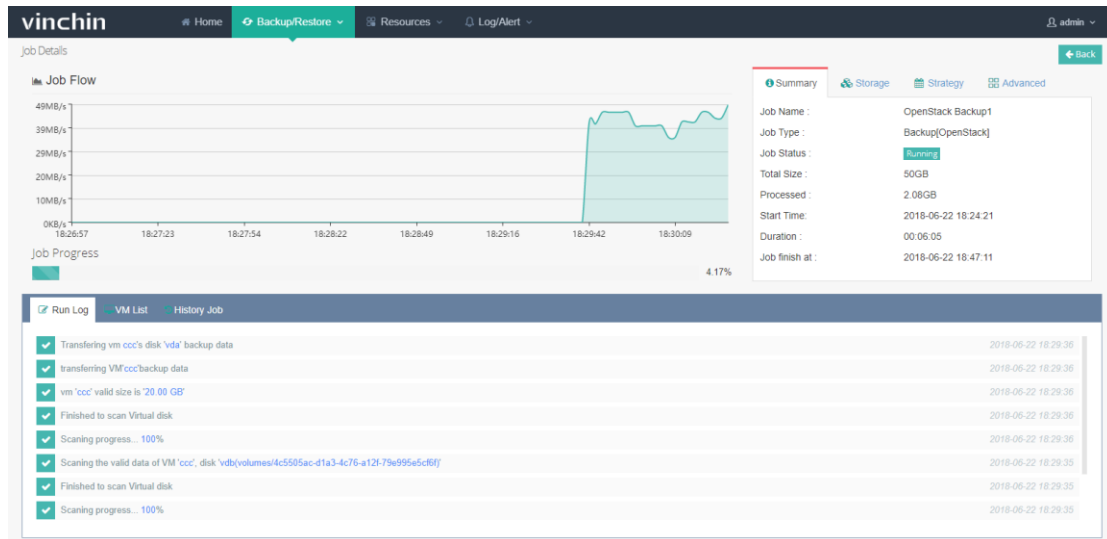
Job List

Page 1 of 1 | View 10 records | Total 6 records

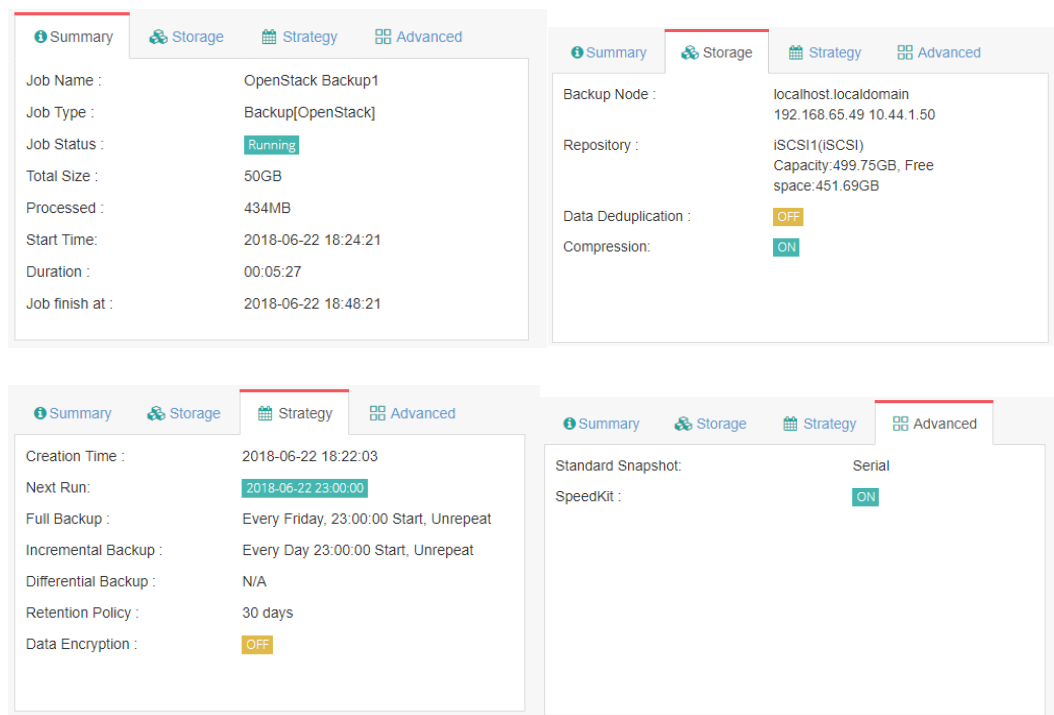
Job Name	Platform	Job Type	Creation Time	Status	Speed	Creator	Operation
OpenStack Backup1	OpenStack	Backup	2018-06-22 18:22:03	Stopped	--	admin	Options
Redhat RHV/Ovirt Backup3	Redhat RHV/Ovirt	Backup	2018-06-22 15:18:22	Pending	--	admin	Options
Redhat RHV/Ovirt Instant Recovery1	Redhat RHV/Ovirt	Instant Recovery	2018-06-22 15:14:46	Stopped	--	admin	Options
Redhat RHV/Ovirt Backup2	Redhat RHV/Ovirt	Backup	2018-06-22 14:33:21	Stopped	--	admin	Options
Redhat RHV/Ovirt Backup1	Redhat RHV/Ovirt	Backup	2018-06-22 12:16:15	Pending	--	admin	Options
H3C CAS Instant Recovery1	H3C CAS	Instant Recovery	2018-06-21 16:31:53	Stopped	--	admin	Options

Tip: Click job name you can view the job details.

When the job in a running status, click the job name, you will see the job running details page as below:



On the top right are 3 main columns showing the job configuration info as below:



On the bottom left are another 3 main columns showing Run Log, VM List and history Job.

Run Log	VM List	History Job
✓	Transferring vm 'ccc's disk 'vda' backup data	2018-06-22 18:29:36
✓	transferring VM'ccc'backup data	2018-06-22 18:29:36
✓	vm 'ccc' valid size is '20.00 GB'	2018-06-22 18:29:36
✓	Finished to scan Virtual disk	2018-06-22 18:29:36
✓	Scanning progress... 100%	2018-06-22 18:29:36
✓	Scanning the valid data of VM 'ccc', disk 'vdb'(volumes4c5505ac-d1a3-4c76-a12f-79e995e5c5fj)	2018-06-22 18:29:35
✓	Finished to scan Virtual disk	2018-06-22 18:29:35
✓	Scanning progress... 100%	2018-06-22 18:29:35

Job Logs: Records the current backup job running logs.

No.	VM Name	Job Type	VM Size	Data Size	Transfer Size	Written	Speed	Progress	Status	Description
1	ccc	Full Backup	50GB	20GB	2.77GB	375.24MB	47.2MB/s	5.54%	Running	

VM List: Shows all the virtual machines under the current backup job. Details include VM Name, Backup Type (Full Backup/Incremental Backup/Differential Backup), VM Size (VM valid data size), Processed Size (The size that Vinchin Backup & Recovery system has processed), Backup Size (The real size that has been stored to the backup repository), Processing Rate, Progress, Status etc.

No.	Job Type	Status	VM Size	Data Size	Transfer Size	Written	Start Time	End Time
1	Incremental Backup	Success	50GB	86MB	86MB	11.46MB	2018-06-24 23:00:00	2018-06-24 23:00:14
2	Incremental Backup	Success	50GB	86MB	86MB	11.23MB	2018-06-23 23:00:00	2018-06-23 23:00:15
3	Full Backup	Success	50GB	19.99GB	19.99GB	1.12GB	2018-06-22 23:00:00	2018-06-22 23:12:36
4	Incremental Backup	Success	50GB	0B	0B	0B	2018-06-22 18:37:09	2018-06-22 18:37:21
5	Full Backup	Success	50GB	20GB	20GB	1.12GB	2018-06-22 18:24:21	2018-06-22 18:36:38

History Job: Reviews all the history operations of this backup job, details including backup type, status, backed up size, backup start time & end time etc.

Note:

- If the backup job has been set as "Backup at once", after job running finished, you

can find it in the History Job list.

- If the backup job has been set as "Backup as scheduled", the job will remain in the Current Job list and continue backup job as scheduled.
- Once enable "Deduplication & Compression" when creating backup job, the "Backed up" size will be smaller.

3.1.3. VM Restore

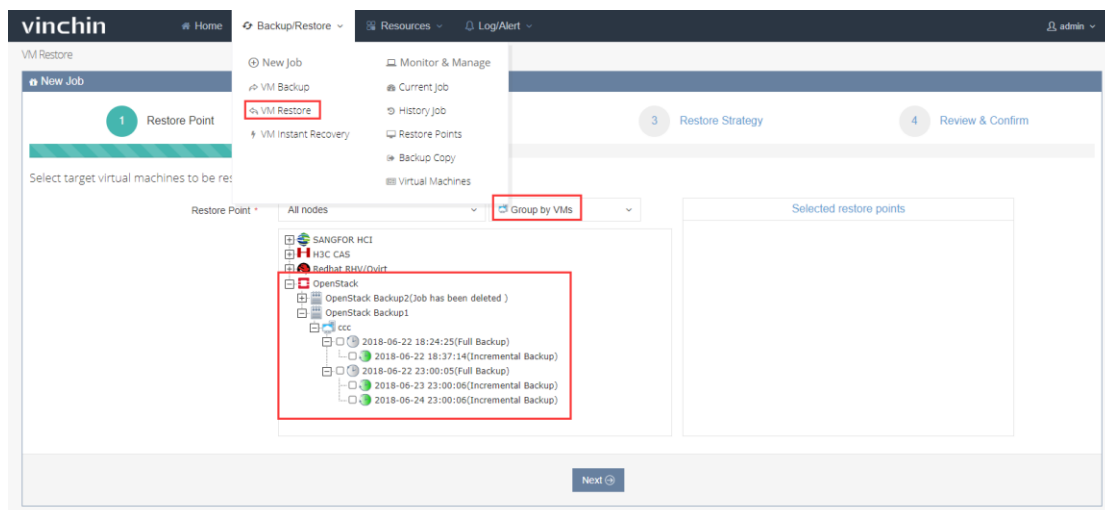
3.1.3.1. Create Restore Job

3.1.3.1.1. Restore Point

Click **【Backup/Restore】 - 【VM Restore】**, you are coming to the restore job creating page.

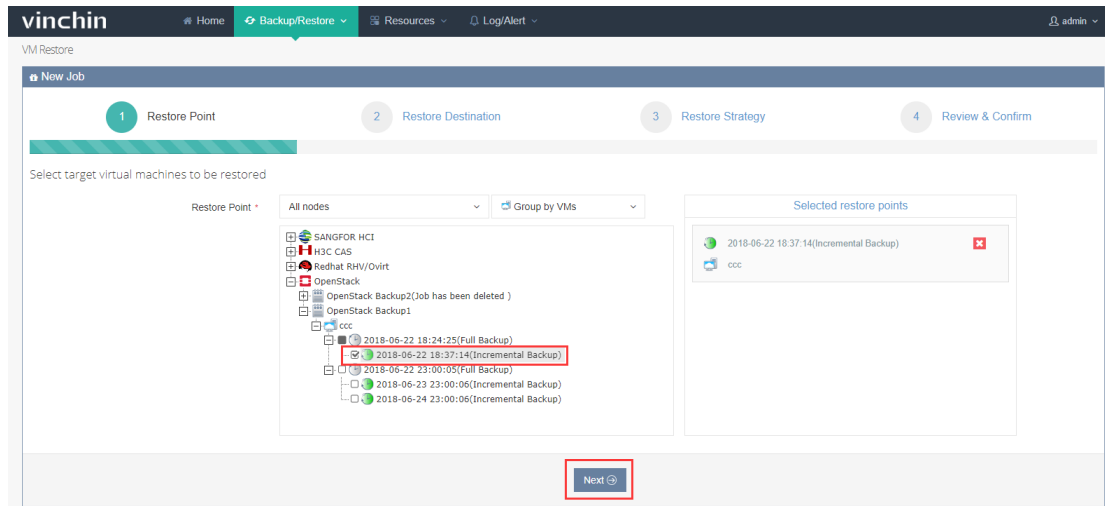
Select a target VM restore point under the OpenStack which you want to restore as below.

You can quickly find the target restore point by specifying backup node and selecting “Group by VMs” or “Group by Restore Points” accordingly.



A Restore Point has been marked with the name of a backup job. Each backup job name has displayed the restore point and backup type (full backup/incremental backup/differential backup) for users to recognize and select.

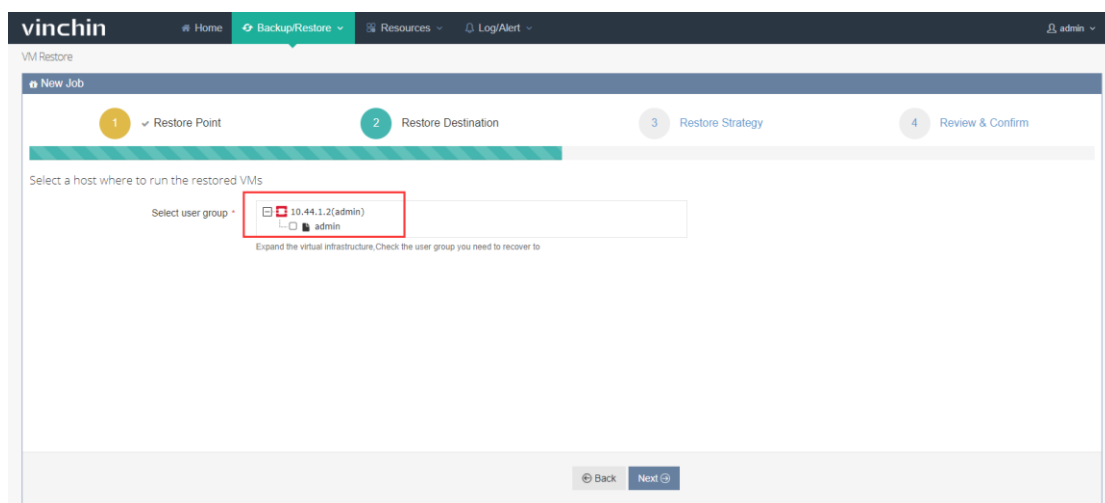
Choose one restore point under each virtual machine, click **【Next】**



Note: You can choose multiple virtual machines to restore at the same time. If one virtual machine has multiple restore points, you can only choose one point to restore at once.

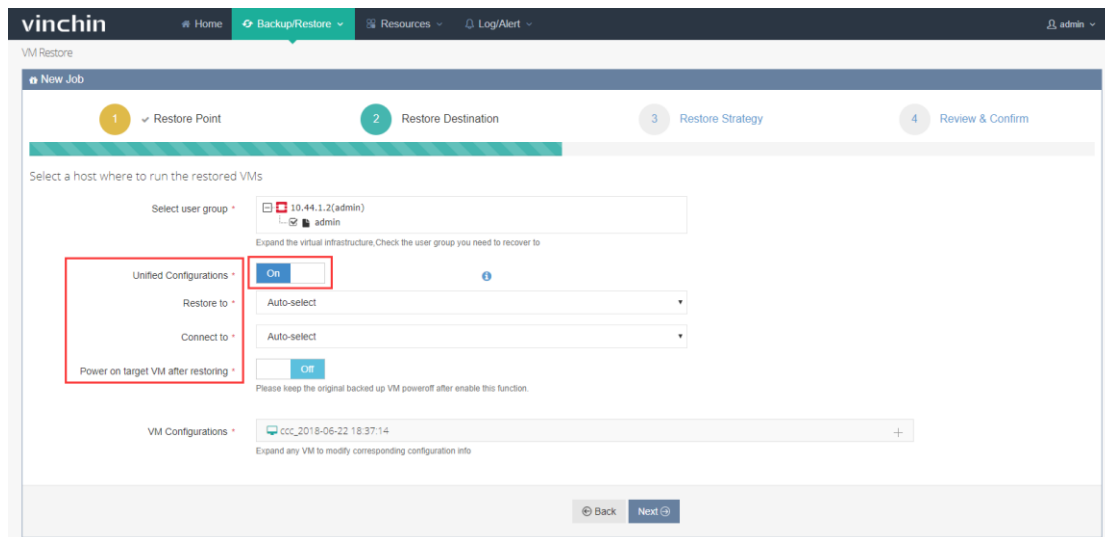
3.1.3.1.2. Restore Destination

- 1) Select User Group: Select a user group where you want to run the restored VMs as below:



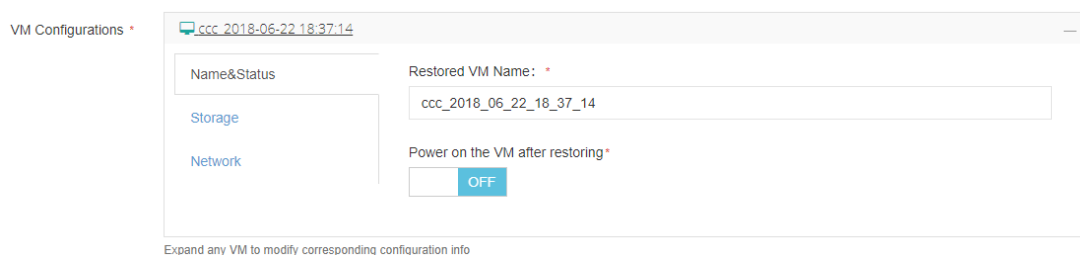
After restored, the VMs will run on the selected user group.

- 2) Unified Configurations: Enable this function you can set multiple VMs' storage, network information, and choose whether to power on the target VM(s) after restoring as below:



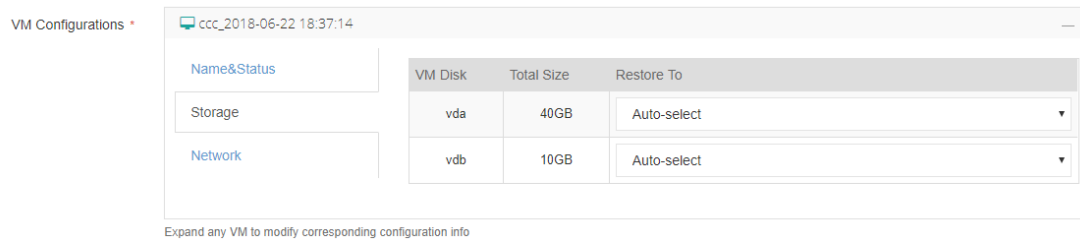
The screenshot shows the 'VM Restore' interface in the Vinchin management console. The 'Backup/Restore' menu is active. The 'New Job' wizard is in the 'Restore Destination' step (Step 2). The 'Unified Configurations' checkbox is checked and highlighted with a red box. Below it, the 'Power on target VM after restoring' checkbox is also checked. The 'VM Configurations' section shows a single VM configuration with the name 'ccc_2018-06-22 18:37:14'.

- 3) Single VM Configurations: Select a target VM, you can rename it and pre-set its storage, network information details as below:



The screenshot shows the 'VM Configurations' dialog box for a VM with ID 'ccc_2018-06-22 18:37:14'. The 'Name&Status' tab is selected. The 'Restored VM Name' field is set to 'ccc_2018_06_22_18_37_14'. The 'Power on the VM after restoring' checkbox is checked.

Note: When renaming the VM, make sure there's no special characters. Any combination of letters, numbers and underscore characters are recommended.



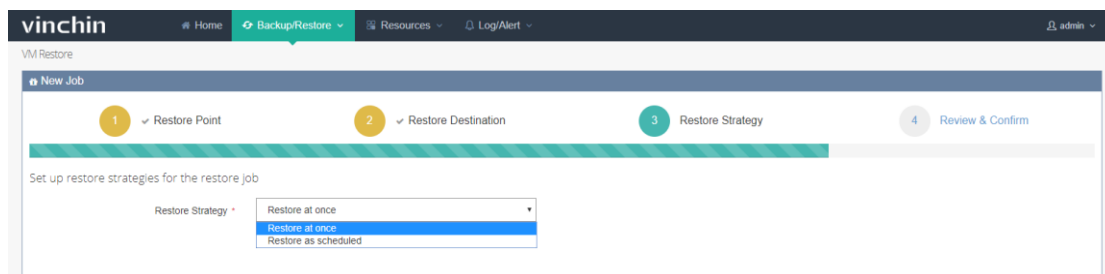
Note: If choose Auto-select in the “Storage”, the system will automatically choose the biggest storage space. If all the storages are out of free space, the restore job will fail, and system will remind insufficient space.

You can also choose where to connect the VM network interface to after restoring.



3.1.3.1.3. Restore Strategy

Choose “Restore at once” or Restore as scheduled” as below:



If choosing “Restore at once”, the restore job will start running after created.

If choosing “Restore as scheduled”, you need to set restore schedules as below. After

done, the job will run as scheduled.

The screenshot shows the 'New Job' configuration page in the Vinchin interface, specifically the 'Restore Strategy' step. The progress bar indicates four steps: 1. Restore Point, 2. Restore Destination, 3. Restore Strategy (current), and 4. Review & Confirm. The 'Restore Strategy' dropdown is set to 'Restore as scheduled'. Below it, the 'Schedule' section is expanded, showing a selected strategy of 'Restore Strategy/Every Friday, 23:00:00 Start, Unrepeat'. The 'Every Week' radio button is selected, and the 'Friday' checkbox is checked. The 'Start Time' is set to '23:00:00'.

Note: Restore as schedule is not recommended if no special circumstances, because restoring too many VMs will occupy productive resources.

3.1.3.1.4. Review & Confirm

After finish, you are able to review and confirm the settings. Click **【Submit】** if correct, the restore job creation will be completed.

The screenshot shows the 'Review & Confirm' step of the 'New Job' configuration. The progress bar now highlights step 4. The page prompts the user to 'Please review and confirm your configurations.' The 'Job Name' is 'OpenStack Restore1'. The 'Restore Point' is 'OpenStackRestore 10.44.1.2(admin)ccc(2018-06-22 18:37:14)'. The 'Restore Destination' is 'Restore to 10.44.1.2(admin) -> admin'. The 'Restore Strategy' is 'Restore as scheduled : Restore Strategy (Every Friday, 23:00:00 Start, Unrepeat)'. At the bottom, there are 'Back' and 'Submit' buttons.

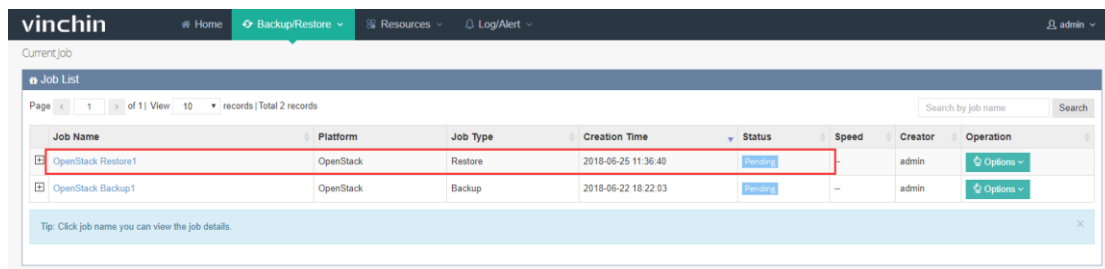
Note:

- You can rename the restore job.

- Make sure all the settings are correct before submitting.
- If you have chosen "Restore at once", the restore job will start running once you submit the job.

3.1.3.2. Perform Restore Job

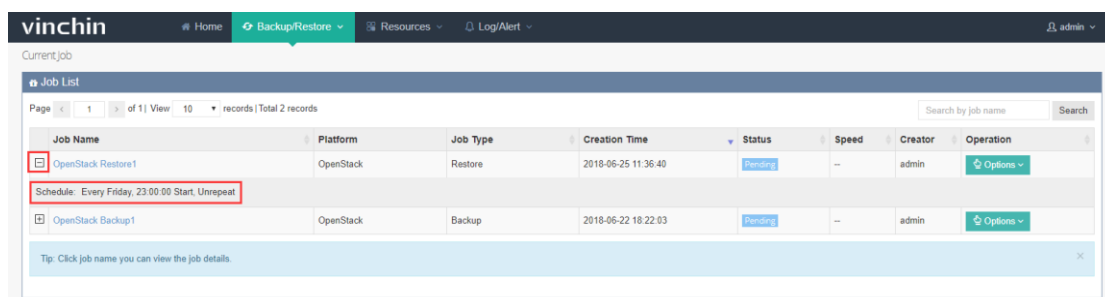
After creating a new restore job, you will see this job in the "Current Job List" as below:



The screenshot shows the Vinchin web interface with the 'Current Job List' section. A table lists two jobs. The first job, 'OpenStack Restore1', is highlighted with a red box. The table has columns for Job Name, Platform, Job Type, Creation Time, Status, Speed, Creator, and Operation. The status for the highlighted job is 'Pending'.

Job Name	Platform	Job Type	Creation Time	Status	Speed	Creator	Operation
OpenStack Restore1	OpenStack	Restore	2018-06-25 11:36:40	Pending		admin	Options
OpenStack Backup1	OpenStack	Backup	2018-06-22 18:22:03	Pending	--	admin	Options

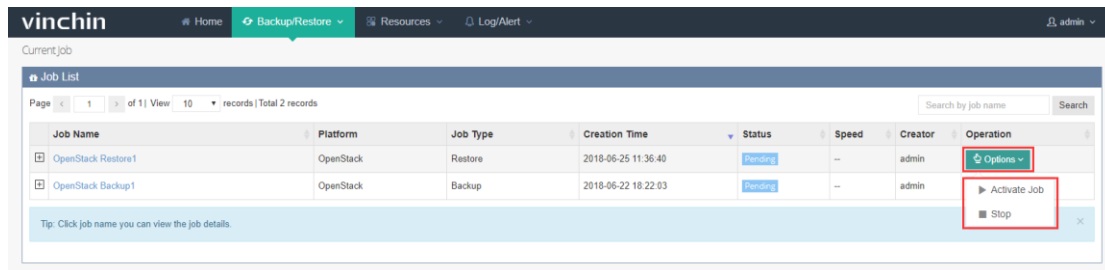
Click " + ", you can review the restore schedules of this job as below (if you have set "Restore as scheduled") :



The screenshot shows the Vinchin web interface with the 'Current Job List' section. The 'OpenStack Restore1' job is selected, and its schedule is displayed below the job name. The schedule is 'Every Friday, 23:00:00 Start. Unrepeat'.

Job Name	Platform	Job Type	Creation Time	Status	Speed	Creator	Operation
OpenStack Restore1	OpenStack	Restore	2018-06-25 11:36:40	Pending	--	admin	Options
Schedule: Every Friday, 23:00:00 Start. Unrepeat							
OpenStack Backup1	OpenStack	Backup	2018-06-22 18:22:03	Pending	--	admin	Options

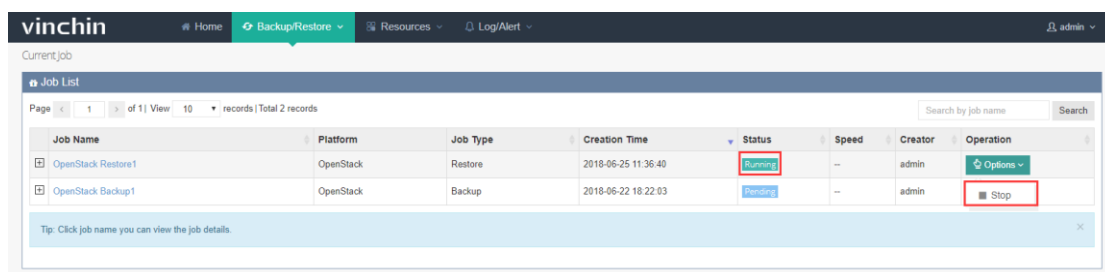
Click **Options** - **Activate job** to start the restore job.



The screenshot shows the 'vinchin' Backup/Restore interface. The 'Job List' table has the following data:

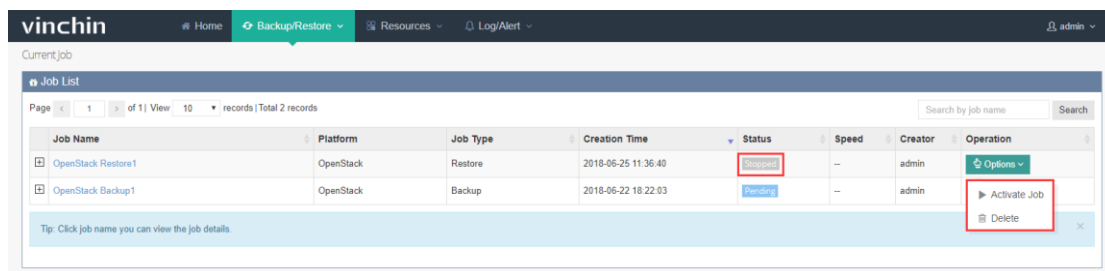
Job Name	Platform	Job Type	Creation Time	Status	Speed	Creator	Operation
OpenStack Restore1	OpenStack	Restore	2018-06-25 11:36:40	Pending	--	admin	Options
OpenStack Backup1	OpenStack	Backup	2018-06-22 18:22:03	Pending	--	admin	Activate Job, Stop

If you want to stop this restore job, click **Stop** button. Click **Options** again, you can activate or delete this job as you want.



The screenshot shows the 'vinchin' Backup/Restore interface. The 'Job List' table has the following data:

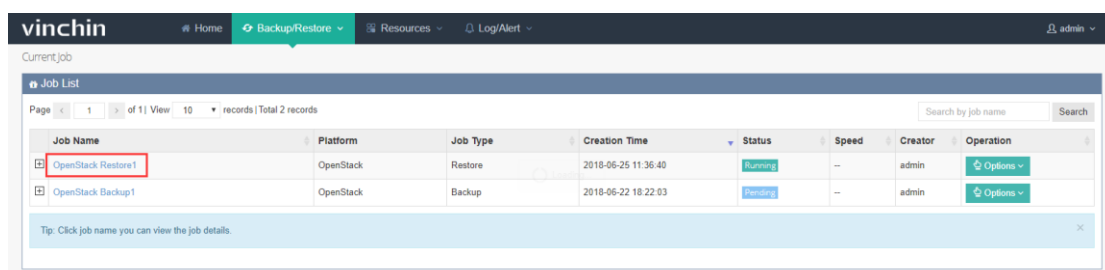
Job Name	Platform	Job Type	Creation Time	Status	Speed	Creator	Operation
OpenStack Restore1	OpenStack	Restore	2018-06-25 11:36:40	Running	--	admin	Options
OpenStack Backup1	OpenStack	Backup	2018-06-22 18:22:03	Pending	--	admin	Stop



The screenshot shows the 'vinchin' Backup/Restore interface. The 'Job List' table has the following data:

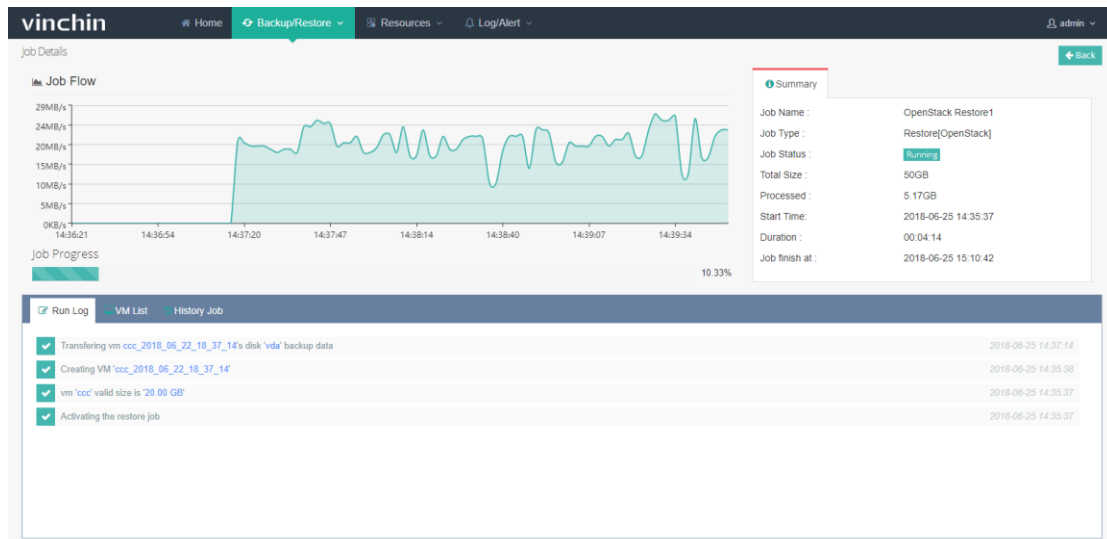
Job Name	Platform	Job Type	Creation Time	Status	Speed	Creator	Operation
OpenStack Restore1	OpenStack	Restore	2018-06-25 11:36:40	Stopped	--	admin	Options
OpenStack Backup1	OpenStack	Backup	2018-06-22 18:22:03	Pending	--	admin	Activate Job, Delete

When the job is in a running status, click the job name, you will see the job details page as below:



The screenshot shows the 'vinchin' Backup/Restore interface. The 'Job List' table has the following data:

Job Name	Platform	Job Type	Creation Time	Status	Speed	Creator	Operation
OpenStack Restore1	OpenStack	Restore	2018-06-25 11:36:40	Running	--	admin	Options
OpenStack Backup1	OpenStack	Backup	2018-06-22 18:22:03	Pending	--	admin	Options



Run Log: Records the current restore job running progress.

No.	VM Name	Job Type	VM Size	Data Size	Transfer Size	Written	Speed	Progress	Status	Description
1	ccc	Restore	50GB	20GB	6.2GB	6.2GB	20.8MB/s	12.39%	Running	

VM List: Shows the current job details including VM Name, Job Type (Restore), Total (VM total size), Processed (Processed size), Recovered (The real size that has been restored), Speed(Data transfer speed), Progress(Job running progress), Status etc.

No.	Job Type	Status	VM Size	Data Size	Transfer Size	Written	Start Time	End Time
1	Restore	Success	50GB	20GB	20GB	50GB	2018-06-25 14:35:37	2018-06-25 14:46:28

History Job: If you've set "Restore at once" for this restore job, this job will be auto-deleted after completing restoring and shows no data. If you've set " Restore as scheduled", you can review all the history operations of this restore job.

Warning: During a restore process, do not power on the VM before the restore job is completed, otherwise the VM data will be damaged or lost.

3.1.4. VM Instant Recovery

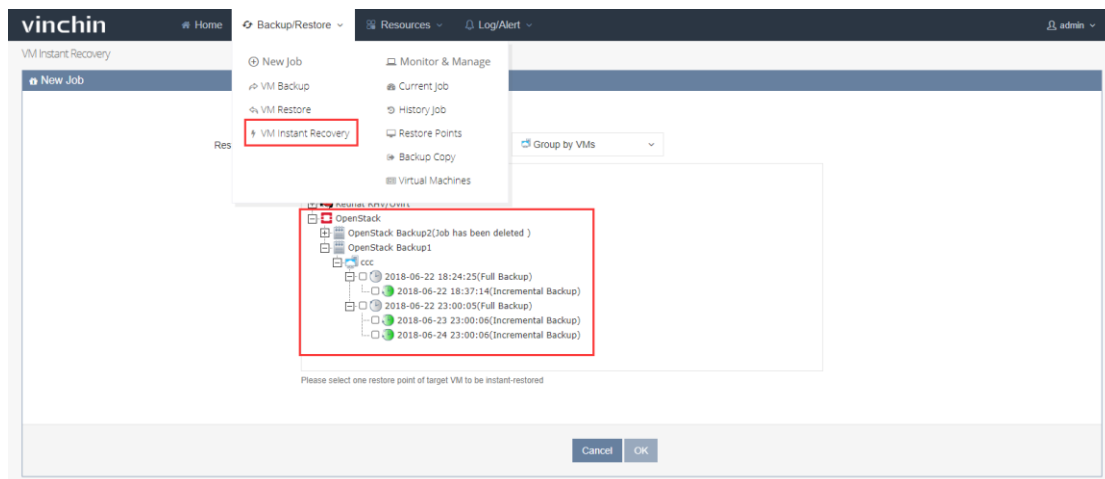
VM Instant Recovery helps to recover TB sized VMs in 15 secs, all business recovery in 1 min, minimized the break-off time of critical businesses.

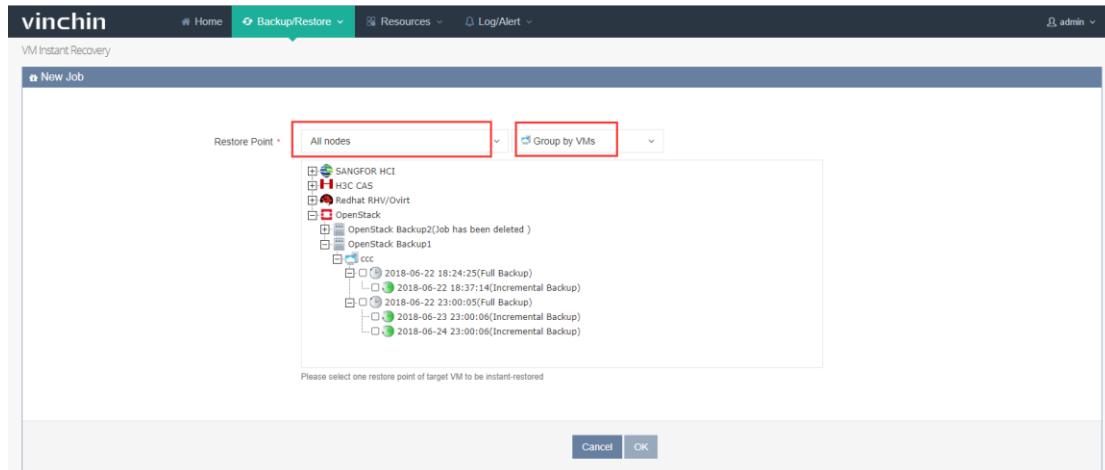
When creating a VM Instant Recovery job, make sure there's available restore point. If no, please backup target VM(s) with Vinchin Backup & Recovery system first.

3.1.4.1. Create Instant Recovery Job

Click **【VM Instant Recovery】** you are coming to the instant recovery new job adding page.

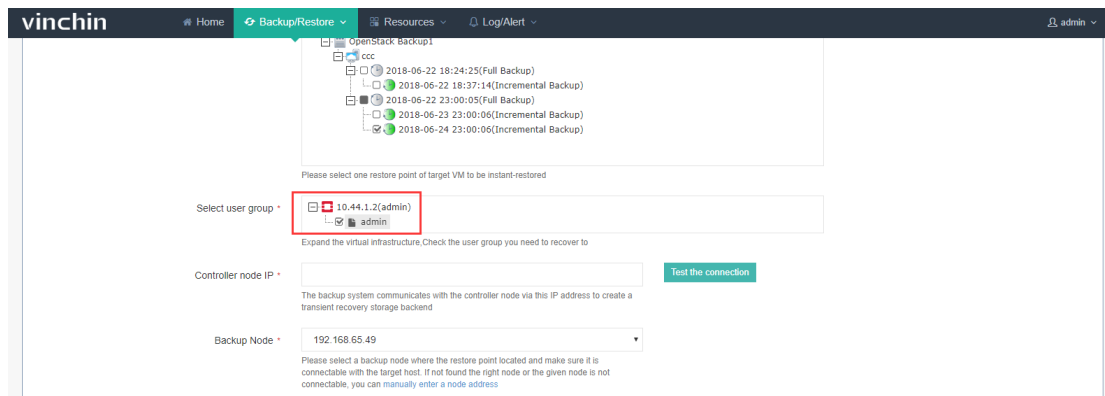
Select a target VM restore point under the OpenStack which you want to instantly recover as below. You can quickly find the target restore point by specifying backup node and selecting "Group by VMs" or "Group by Restore Points" accordingly.

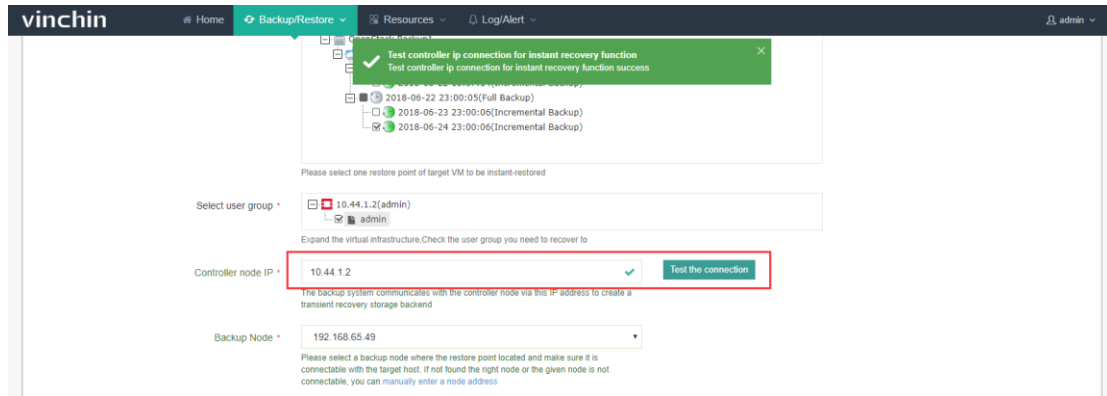




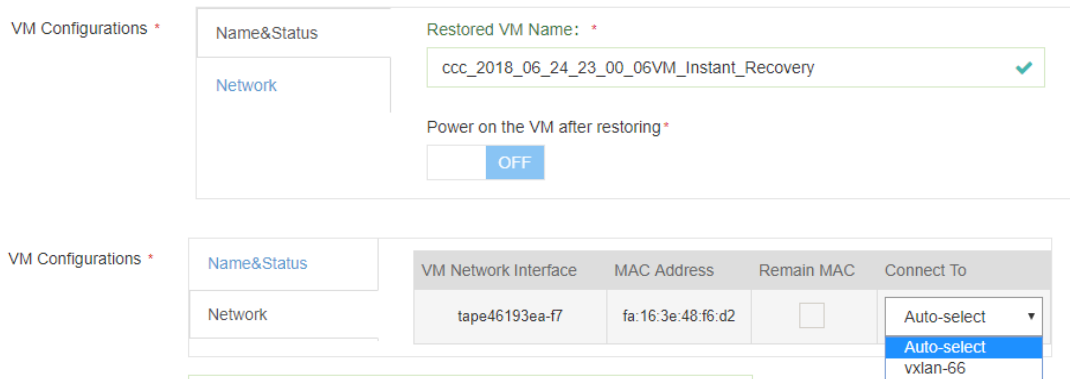
Note: You can only select one VM restore point for each instant recovery job.

Select a target user group as the restore destination where you want to run the instantly recovered VMs, and enter the controller node IP and click [Test the connection]. If test is success, then select the backup node IP/domain where the backup repository was mounted.

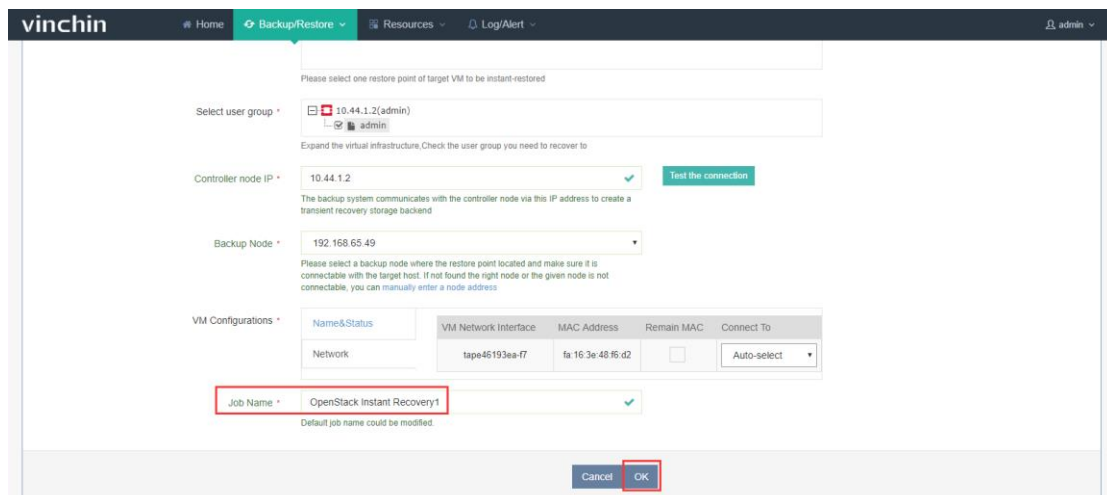




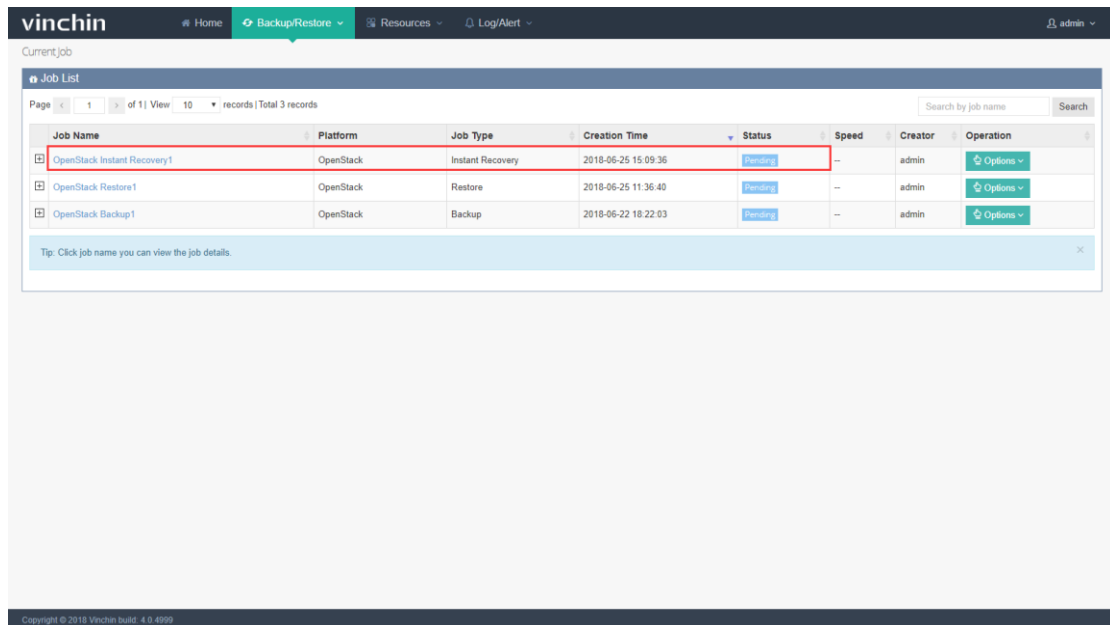
You can also preset the restored VMs' name, network connection and whether to power on the VM after restoring.



You can modify the job name as below:



Click **【OK】** you are coming to the Current Job List as below:



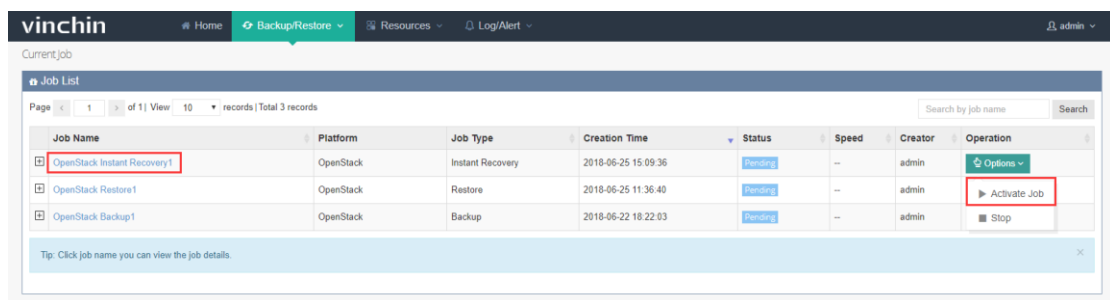
The screenshot shows the Vinchin Backup/Restore interface. The top navigation bar includes Home, Backup/Restore, Resources, and Log/Alert. The main content area displays a 'Job List' table with the following columns: Job Name, Platform, Job Type, Creation Time, Status, Speed, Creator, and Operation. The table contains three rows of jobs, all with a 'Pending' status. The first row, 'OpenStack Instant Recovery1', is highlighted with a red border. The 'Operation' column for each row contains an 'Options' button. A tip at the bottom of the table reads: 'Tip: Click job name you can view the job details.'

Job Name	Platform	Job Type	Creation Time	Status	Speed	Creator	Operation
OpenStack Instant Recovery1	OpenStack	Instant Recovery	2018-06-25 15:09:36	Pending	--	admin	Options
OpenStack Restore1	OpenStack	Restore	2018-06-25 11:36:40	Pending	--	admin	Options
OpenStack Backup1	OpenStack	Backup	2018-06-22 18:22:03	Pending	--	admin	Options

Operation details please refer to "chapter 3.1.3.VM Restore".

3.1.4.2.Perform Instant Recovery Job

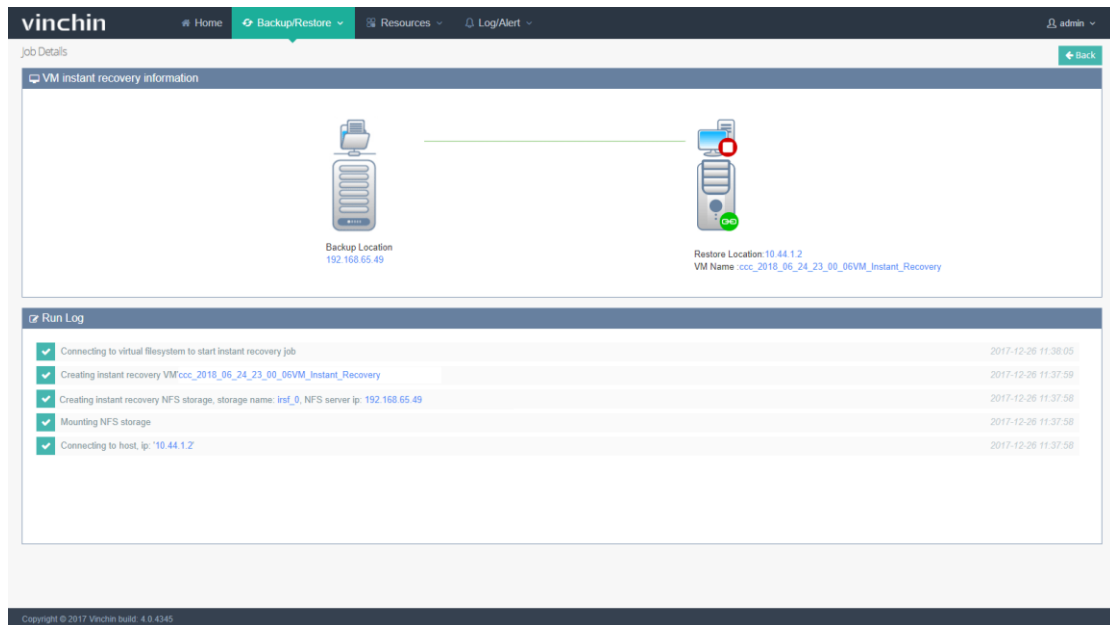
Click **【Activate】** to activate the Instant Recovery job and click job name to view the job running details as below:



The screenshot shows the Vinchin Backup/Restore interface. The top navigation bar includes Home, Backup/Restore, Resources, and Log/Alert. The main content area displays a 'Job List' table with the following columns: Job Name, Platform, Job Type, Creation Time, Status, Speed, Creator, and Operation. The table contains three rows of jobs, all with a 'Pending' status. The first row, 'OpenStack Instant Recovery1', is highlighted with a red border. The 'Operation' column for each row contains an 'Options' button. The 'Activate Job' button is highlighted with a red border. A tip at the bottom of the table reads: 'Tip: Click job name you can view the job details.'

Job Name	Platform	Job Type	Creation Time	Status	Speed	Creator	Operation
OpenStack Instant Recovery1	OpenStack	Instant Recovery	2018-06-25 15:09:36	Pending	--	admin	Options
OpenStack Restore1	OpenStack	Restore	2018-06-25 11:36:40	Pending	--	admin	Options
OpenStack Backup1	OpenStack	Backup	2018-06-22 18:22:03	Pending	--	admin	Options

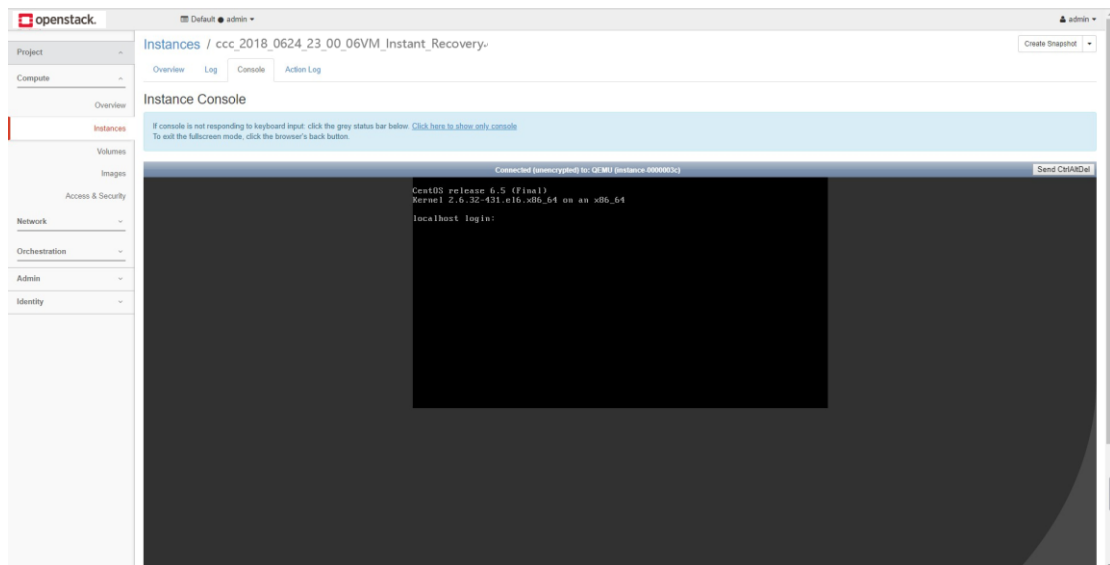
The logs will display the instant recovery job progress.



After the job is completed successfully, you can power on the recovered VMs.

If you have preset “power on the VM after restoring”, the VM will be powered on automatically once you activate the job in 15 seconds.

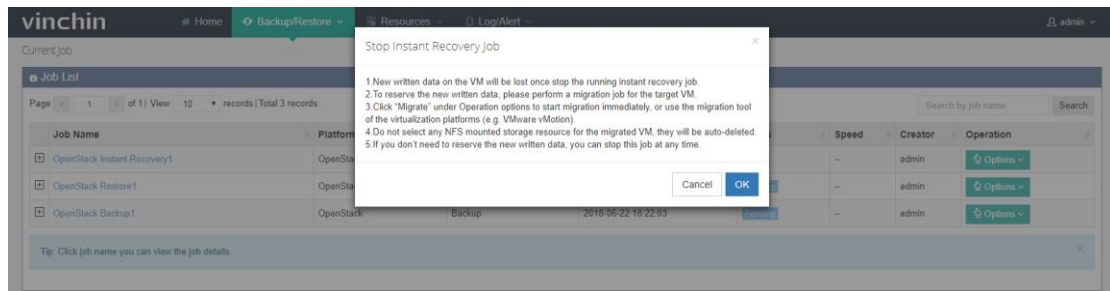
Log in to OpenStack management platform, you can see the instantly recovered VM is created in second level, and is workable :



Warning: Do not create snapshot on the instantly recovered VM, or change any disk

information. Otherwise error will occur to the VM or it will crash.

If you stop the job when it's still running, the restored VM will be deleted. System will remind you as below:

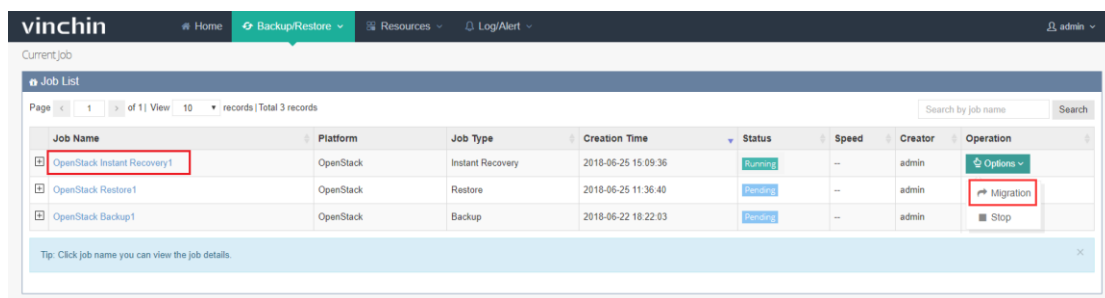


Warning: If you stop the instant recovery job, all the recovered VM information will be deleted (Including newly increased data during the instant recovery). If you need to reserve the recovered VM and its newly increased data, do not stop the job until you have migrated them to a safe place.

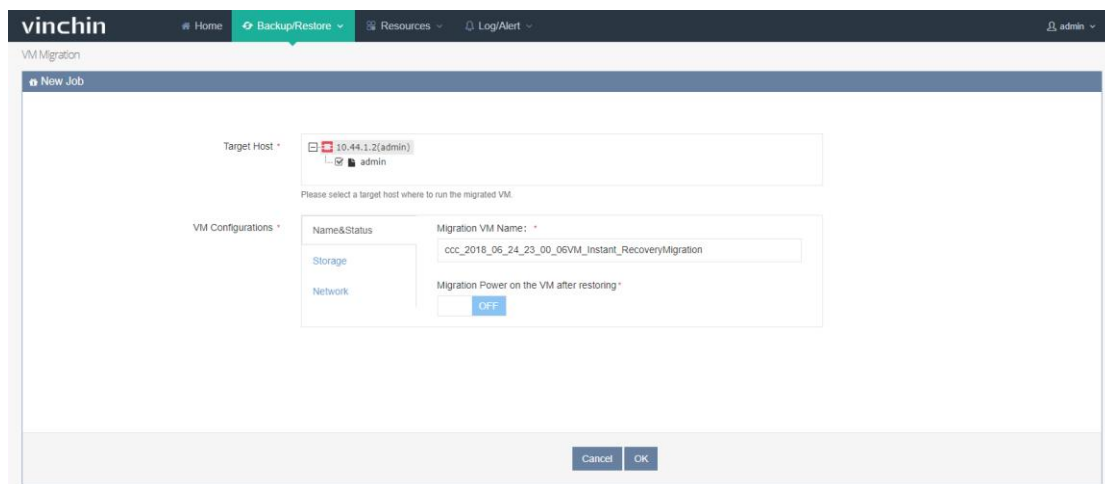
3.1.5. VM Migration

When performing instant recovery job, the VM and newly increased data can be synchronously migrated to the production area via Vinchin Backup & Recovery live-migration function without effecting the normal operation of your business.

Select a normally running instant recovery job and click **【Migration】** as below:



You are coming to the “Create VM Migration Job” page, Select a tenant where you want to migrate the VM to.



VM Configurations:

(1) “Name & Status” allows you to preset the migrated VM name and whether to power on it after migrating as below:

VM Configurations *

Name&Status	Migration VM Name: *
Storage	ccc_2018_06_24_23_00_06VM_Instant_RecoveryMigration
Network	Migration Power on the VM after restoring *
	<input type="checkbox"/> OFF

Note: Make sure there's no special characters, no more than 60 characters. Any combination of letters, numbers and underscore characters are recommended.

(2) If choose Auto-select in the "Storage", the system will automatically choose the biggest storage space. If all the storages are out of free space, the restore job will fail, and system will remind insufficient space.

VM Configurations *

VM Disk	Total Size	Restore To
vda	20GB	Auto-select

Auto-select
nfs_vm(netfs, Capacity :499GB, Free Space:486GB)

(3) The "VM network interface" belongs to the backed up VM. This setup is to band it to a destination host's network interface.

VM Configurations *

VM Network Interface	MAC Address	Remain MAC	Connect To
tape46193ea-f7	fa:16:3e:48:f6:d2	<input type="checkbox"/>	Auto-select

Auto-select
vxlan-66

Note: If tick "Remain MAC", system will remain the MAC of original backed up VM, not the MAC of instant-recovered VM.

Click **【OK】** to start the migration job. You can view the migration job running details in the previous instant recovery job:

The screenshot displays the Vinchin Backup/Restore web interface. At the top, there is a navigation bar with 'Home', 'Backup/Restore', 'Resources', and 'Log/Alert' menus, and a user profile 'admin'. The main content area shows a diagram of data transfer between a 'Backup Location' (IP: 192.168.65.49) and a 'Restore Location' (IP: 10.44.1.2). Below the diagram, the 'Job Progress' bar indicates 35.24% completion. A 'Run Log' section is visible, showing the following steps:

Step	Timestamp
Transferring disk data	2018-06-25 17:11:45
Current disk transfer mode is 'lan'	2018-06-25 17:11:45
Opening remote disk '[sca]Datastore[centos_2018_06_25_16_41_53VM_Instant_RecoveryMigration/centos_2018_06_25_16_41_53VM_Instant_RecoveryMigration_0 vmdk'	2018-06-25 17:11:44
Rebuilding VM'[ccc_2018_06_24_23_00_06VM_Instant_RecoveryMigration	2018-06-25 17:11:40
Starting restoring VM'[centos'	2018-06-25 17:11:40
Restore VM backup timepoint data	2018-06-25 17:11:40

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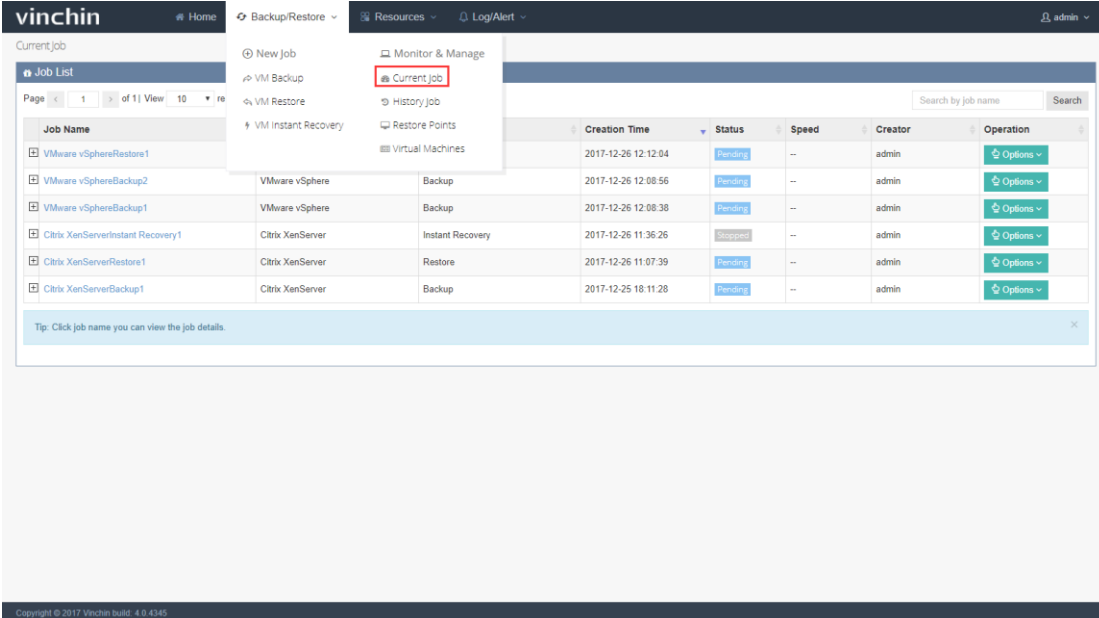
After migration completed, the migration job will automatically change back to **Instant Recovery Job** and this job is still in a running status. But the VM in this job is powered off and the business will be taken over by the migrated VM.

Warning: Do not power on the VM when it is being migrated, otherwise the VM will be damaged.

4. Monitor & Manage

4.1. Current Job

After creating a new job (backup/restore), you can view and manage the new created job in the current job page. All the basic information and status of the job will be shown in the current job list. You can activate, stop or delete the job accordingly. Click [Backup/Restore] – [Current Job] as below:



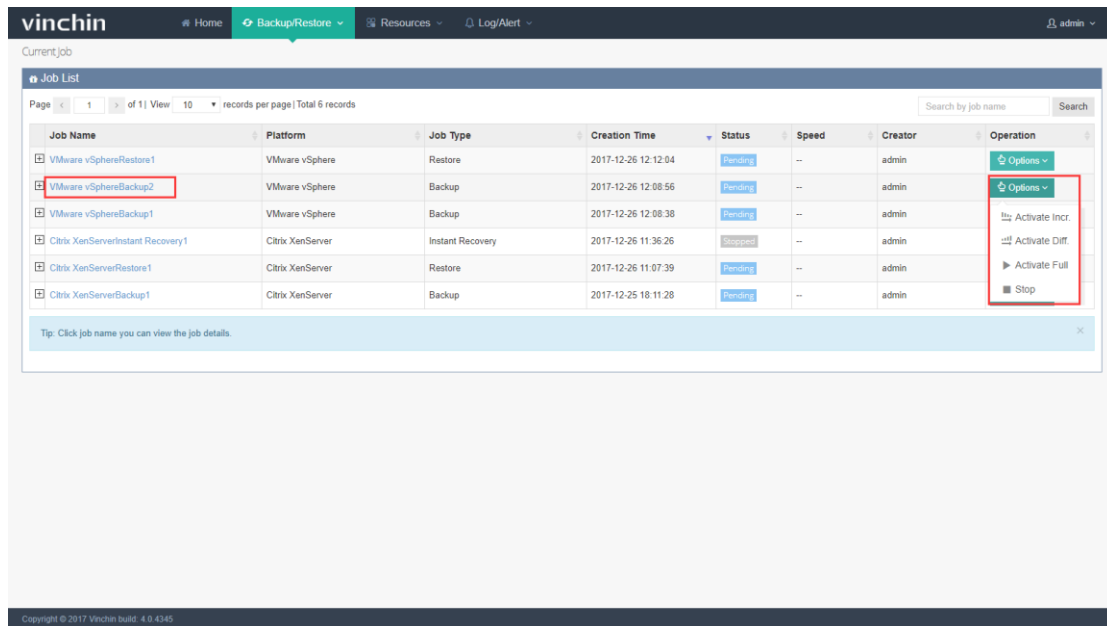
The screenshot shows the Vinchin web interface. The top navigation bar includes 'Home', 'Backup/Restore', 'Resources', and 'Log/Alert'. The 'Current Job' page is active, showing a 'Job List' table. The table has columns for Job Name, Creation Time, Status, Speed, Creator, and Operation. A search bar is located at the top right of the table. The 'Current Job' menu item is highlighted in the navigation menu.

Job Name	Creation Time	Status	Speed	Creator	Operation
VMware vSphereRestore1	2017-12-26 12:12:04	Pending	--	admin	Options
VMware vSphereBackup2	2017-12-26 12:08:56	Pending	--	admin	Options
VMware vSphereBackup1	2017-12-26 12:08:38	Pending	--	admin	Options
Citrix XenServerInstant Recovery1	2017-12-26 11:36:26	Stopped	--	admin	Options
Citrix XenServerRestore1	2017-12-26 11:07:39	Pending	--	admin	Options
Citrix XenServerBackup1	2017-12-25 18:11:28	Pending	--	admin	Options

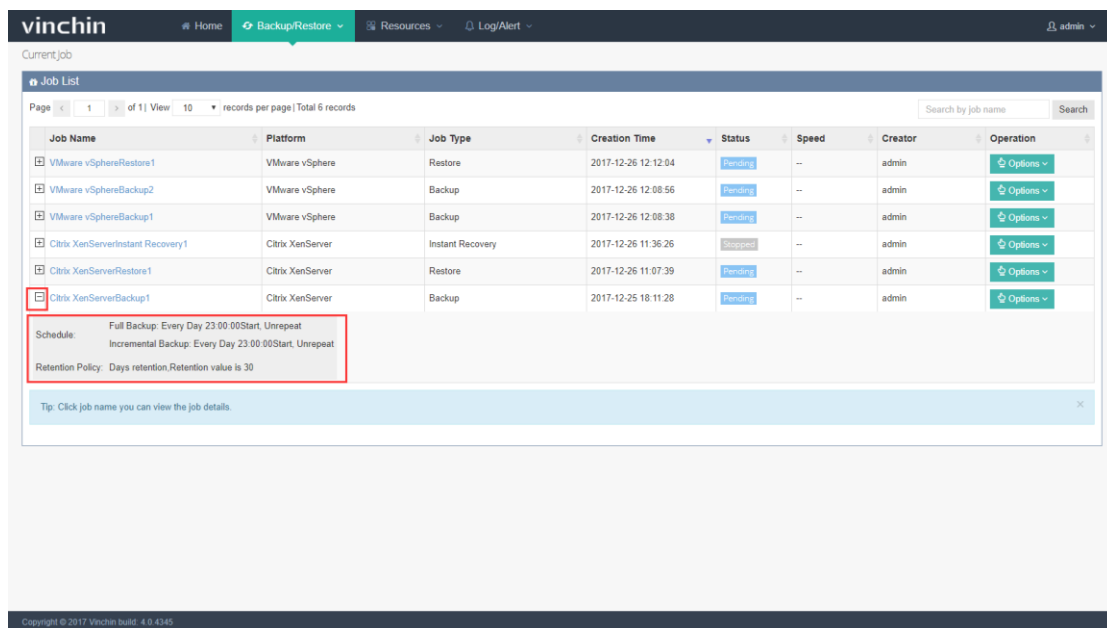
Tip: Click job name you can view the job details.

You can search the certain job by entering job name in the right top search bar.

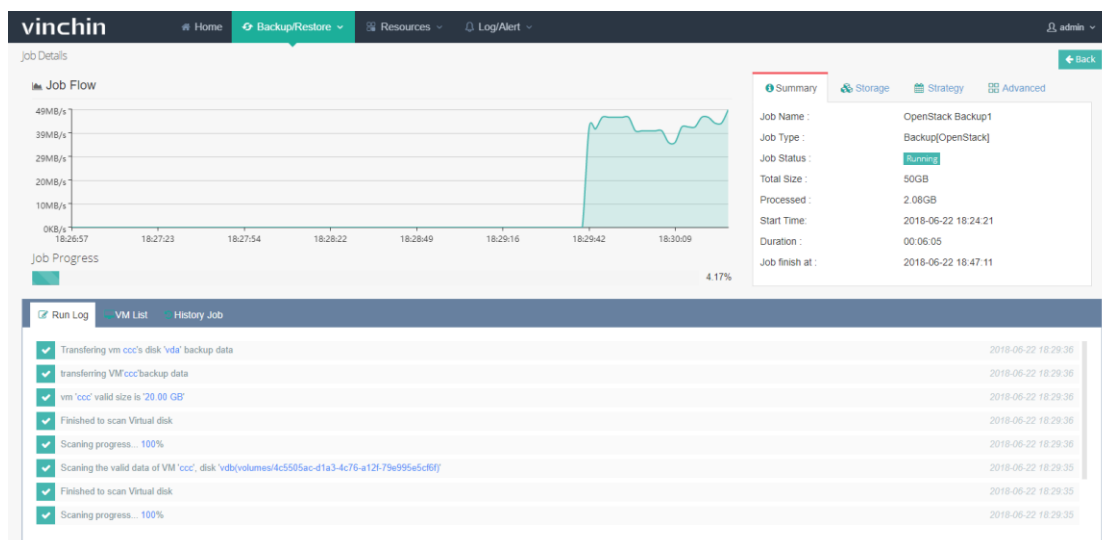
Click [Options] to activate or stop the certain job.



Click " + ", you can review the backup schedules of this job as below:



Click the job name, you will see the job running details page as below:



In the job running page, you can check the job current running details, as well as job history running details.

Click the top right [Back], you can go back to the current job list.

If you preset the job as run at once, it will disappear from the current job list and system will remind you the job has been finished. You can find it from the History Job page.

If you preset the job as run as scheduled, it will stay in the current job list when first time job finished, and waiting for next run automatically.

4.2. History Job

Click [Backup/Restore] – [History Job], you are coming to the history job page. All the performed jobs will be listed here for you to review the history job running details and

status. You can also delete any of the history jobs when necessary.

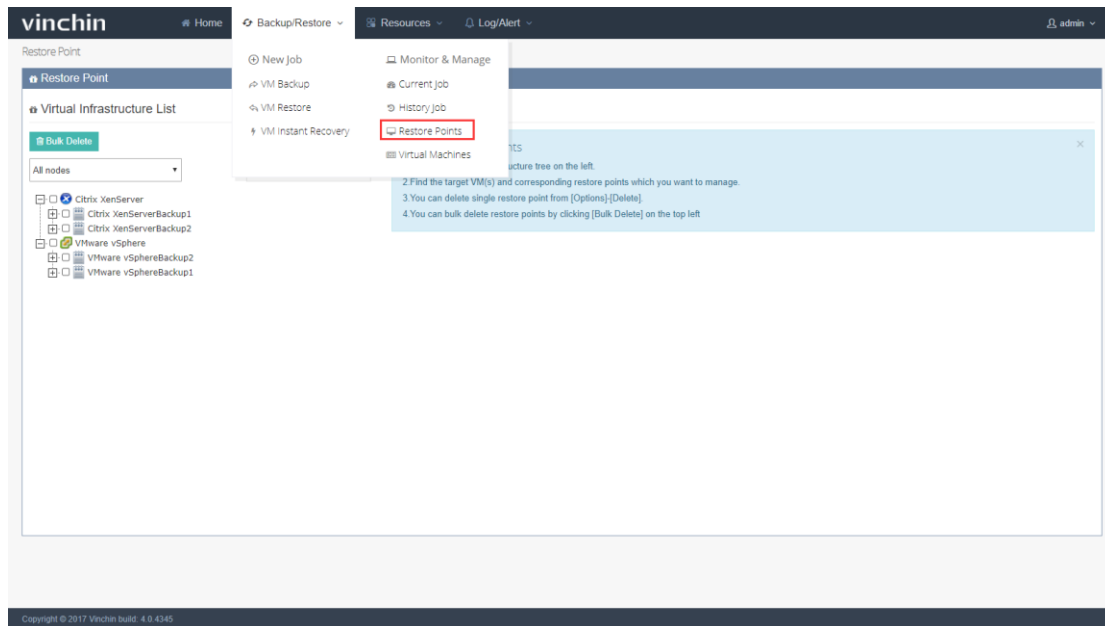
The screenshot shows the Vinchin Backup/Restore interface. The 'History Job' page is active, displaying a table of backup and restore jobs. The table has the following columns: No., Job Name, VMware vSphere, Citrix XenServer, FullBackup, Migration, IncrementalBackup, Restored, Total, Processed, Written, Start Time, End Time, and Status. The 'Status' column shows 'success' for all jobs. A 'Delete' button is visible in the top left corner of the job list area.

No.	Job Name	VMware vSphere	Citrix XenServer	FullBackup	Migration	IncrementalBackup	Restored	Total	Processed	Written	Start Time	End Time	Status
1	VMware vSphereBackup1	VMware vSphere		FullBackup				1.33GB	1.33GB	724.31MB	2017-12-26 12:09:17	2017-12-26 12:11:08	success
2	Citrix XenServerInstant Recovery1		Citrix XenServer		Migration			1.29GB	1.29GB	1.29GB	2017-12-26 11:46:33	2017-12-26 11:47:32	success
3	Citrix XenServerRestore1		Citrix XenServer			Restore		1.29GB	1.29GB	1.29GB	2017-12-26 11:23:43	2017-12-26 11:25:04	success
4	Citrix XenServerBackup1		Citrix XenServer			IncrementalBackup		2MB	2MB	532.56KB	2017-12-26 10:54:46	2017-12-26 10:55:10	success
5	Citrix XenServerBackup1		Citrix XenServer			IncrementalBackup		4MB	4MB	1.13MB	2017-12-26 10:54:09	2017-12-26 10:54:33	success
6	Citrix XenServerBackup1		Citrix XenServer			FullBackup		8.05GB	8.05GB	4.39GB	2017-12-26 10:45:55	2017-12-26 10:53:57	success
7	Citrix XenServerBackup1		Citrix XenServer			FullBackup		1.29GB	1.29GB	699.03MB	2017-12-25 17:49:37	2017-12-25 17:50:27	success
8	VMware vSphereInstant Recovery1	VMware vSphere			Migration			12.61GB	12.61GB	12.61GB	2017-12-25 17:16:30	2017-12-25 17:21:18	success
9	VMware vSphereRestore1		VMware vSphere			Restore		12.61GB	12.61GB	12.61GB	2017-12-25 16:57:50	2017-12-25 17:02:51	success
10	VMware vSphereBackup1		VMware vSphere			IncrementalBackup		896KB	896KB	232.17KB	2017-12-25 16:36:20	2017-12-25 16:36:32	success

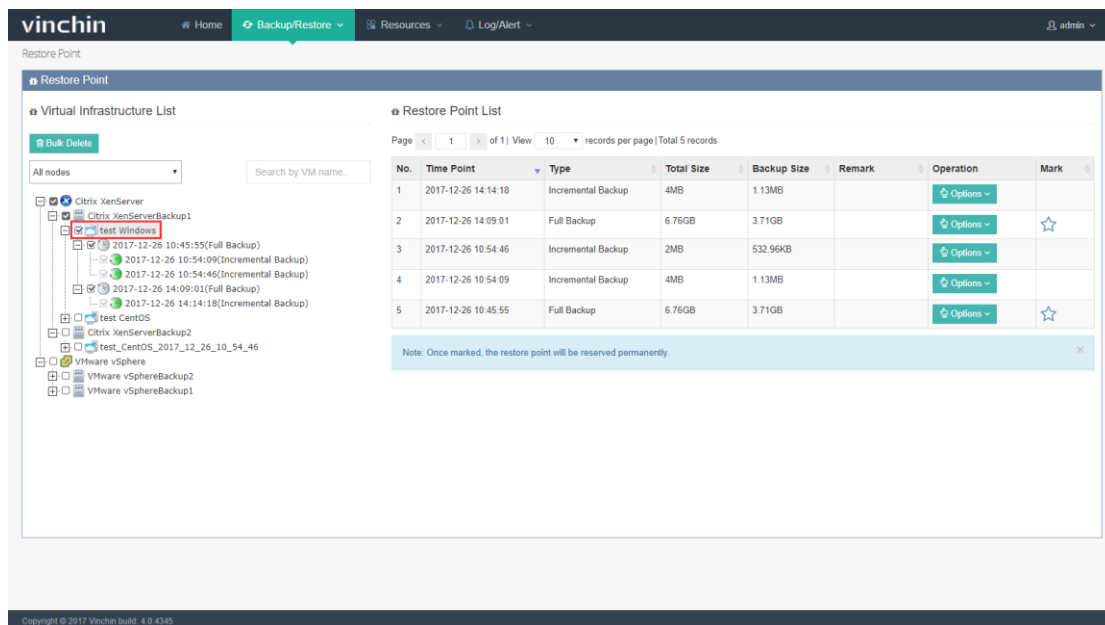
Note: If you delete any history job from the history job page, it will also be deleted from home page history job list.

4.3. Restore Points

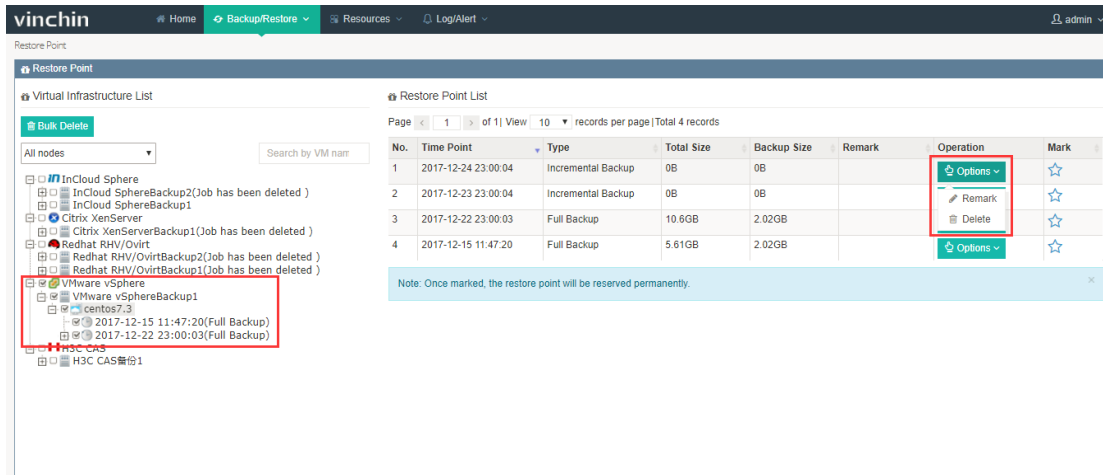
After finishing a backup job successfully, you can view and manage the corresponding restore point from [Backup/Restore]-[Restore Points] as below:



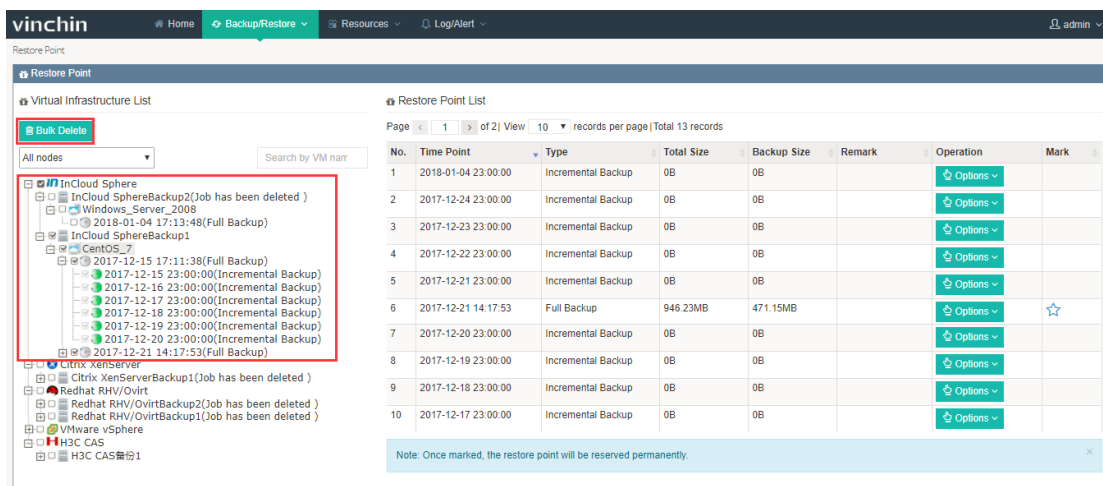
Expand the virtual infrastructure tree, find the target VM you have backed up and click on it, you will see all the restore points of this VM are listed in the right side of the page.



Click [Options] under Operation, you will be able to remark or delete the point.



If you want to bulk delete multiple points, you can first select target points from the left tree, and click [Bulk Delete].



Note:

- Once deleted, the restore point is not recoverable.
- If you want to reserve the restore point, you can mark it, it will not be auto-deleted due to retention policy.

a) For XenServer、RedHat RHV/Ovrit、InCloud and H3C CAS, only full backup restore point can be marked.

b) For VMware, you can mark full backup, incremental backup and

differential backup restore point.

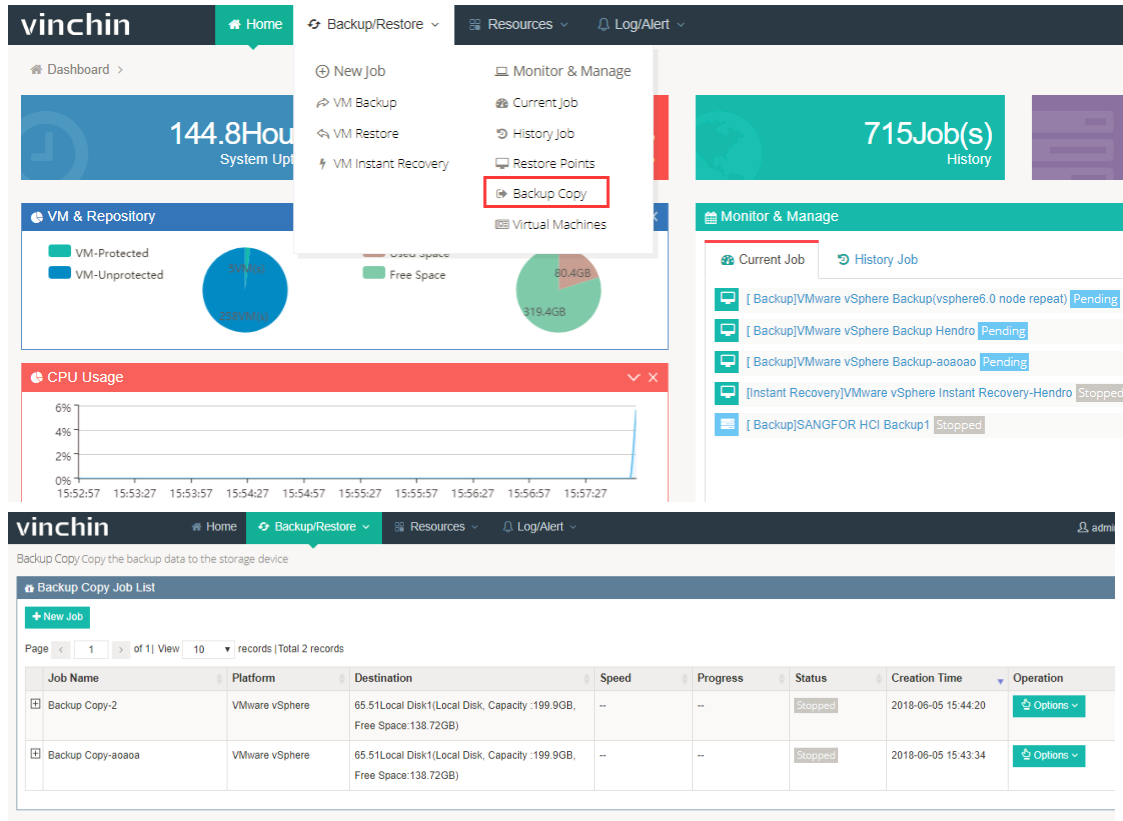
- To delete a restore point:
 - a) For VMware, to delete a full backup restore point, you need to delete corresponding incremental backup or differential backup restore point.
 - b) For XenServer, InCloud, RedHat RHVOvirt and H3C CAS when deleting full backup restore point, corresponding incremental backup or differential backup restore point will be deleted together with full backup restore point.
- Retention Policy for restore points:
 - a) For VMware, when activating retention policy, the incremental restore points will be merged first, after the incremental points are merged or deleted, the full backup point will be auto-deleted due to retention policy.
 - b) For XenServer, InCloud, RedHat RHVOvirt, H3C CAS, retention policy will delete full backup restore points accordingly, when deleting full backup restore points, corresponding incremental and differential backup restore points will be deleted together.

4.4. Backup Copy (For VMware Only)

Backup copy allows you to copy the restore points to another storage (either in the same

host or a different host locally).To further improve the security of backup data.

Click [Backup Copy] as below, you are coming to the Backup Copy Job List page.



Click [New Job] to create a Backup Copy job:

vinchin Home Backup/Restore Resources Log/Alert

Backup Copy/Copy the VM backup data to the specified storage

New Job

Restore Point * localhost.localdomain(192.168.65.51 2) Group by VMs

- VMware vSphere
 - VMware vSphere Backup(vsphere6.7 lan-free)(Job has been deleted)
 - VMware vSphere Backup- hendro(Job has been deleted)
 - Backup Copy-2

Select the target restore points to do copy

Copy to destination storage * 65.51Local Disk1(Local Disk, Capacity :199.9GB, Free Space:138.72GI)

Job Name * Backup Copy1

Default job name could be modified.

Cancel OK

Select the target restore points which you want to copy.

vinchin Home Backup/Restore Resources Log/Alert

Backup Copy/Copy the VM backup data to the specified storage

New Job

Restore Point * localhost.localdomain(192.168.65.51 2) Group by VMs

- VMware vSphere
 - VMware vSphere Backup(vsphere6.7 lan-free)(Job has been deleted)
 - VMware vSphere Backup- hendro(Job has been deleted)
 - Backup Copy-2
- centos
 - 2018-06-05 15:35:37(Full Backup point)
 - 2018-06-05 15:35:37(Full Backup point)
 - 2018-06-05 15:35:37(Full Backup point)
 - 2018-06-05 15:35:37(Full Backup point)

Select the target restore points to do copy

Copy to destination storage * 65.51Local Disk1(Local Disk, Capacity :199.9GB, Free Space:138.72GI)

Job Name * Backup Copy1

Default job name could be modified.

Cancel OK

Select a destination storage where you want to store the backup copy.

Backup Copy Copy the VM backup data to the specified storage

New Job

Restore Point * localhost.localdomain(192.168.65.51 2) Group by VMs

- VMware vSphere
 - VMware vSphere Backup(vsphere6.7 lan-free)(Job has been deleted)
 - VMware vSphere Backup- hendro(Job has been deleted)
 - Backup Copy-2
 - centos
 - 2018-06-05 15:35:37(Full Backup point)
 - 2018-06-05 15:35:37(Full Backup point)
 - 2018-06-05 15:35:37(Full Backup point)
 - 2018-06-05 15:35:37(Full Backup point)

Select the target restore points to do copy

Copy to destination storage * 65.51Local Disk1(Local Disk, Capacity :199.9GB, Free Space:138.72GI)
 65.51Local Disk1(Local Disk, Capacity :199.9GB, Free Space:138.72GB)

Job Name * Backup Copy1

Default job name could be modified.

Cancel OK

And you can rename the job.

After job is created, click [Activate Job] to start copy.

vinchin Home Backup/Restore Resources Log/Alert admin

Backup Copy Copy the backup data to the storage device

Backup Copy Job List

[+ New Job](#)

Page < 1 > of 1 | View 10 records | Total 3 records

Job Name	Platform	Destination	Speed	Progress	Status	Creation Time	Operation
Backup Copy-test	VMware vSphere	65.51Local Disk1(Local Disk, Capacity :199.9GB, Free Space:138.72GB)	--	--	Stopped	2018-06-11 16:04:37	Options Activate Job
Backup Copy-2	VMware vSphere	65.51Local Disk1(Local Disk, Capacity :199.9GB, Free Space:138.72GB)	--	--	Stopped	2018-06-05 15:44:20	Options Delete
Backup Copy-aoaoa	VMware vSphere	65.51Local Disk1(Local Disk, Capacity :199.9GB, Free Space:138.72GB)	--	--	Stopped	2018-06-05 15:43:34	Options

vinchin Home Backup/Restore Resources Log/Alert admin

Backup Copy Copy the backup data to the storage device

Backup Copy Job List

[+ New Job](#)

Page < 1 > of 1 | View 10 records | Total 3 records

Job Name	Platform	Destination	Speed	Progress	Status	Creation Time	Operation
Backup Copy-test	VMware vSphere	65.51Local Disk1(Local Disk, Capacity :199.9GB, Free Space:138.72GB)	--	0.00%	Running	2018-06-11 16:04:37	Options
Backup Copy-2	VMware vSphere	65.51Local Disk1(Local Disk, Capacity :199.9GB, Free Space:138.72GB)	--	--	Stopped	2018-06-05 15:44:20	Options
Backup Copy-aoaoa	VMware vSphere	65.51Local Disk1(Local Disk, Capacity :199.9GB, Free Space:138.72GB)	--	--	Stopped	2018-06-05 15:43:34	Options

Activate backup export task
Activate backup export task success

The backup data will be copied to the destination storage in 1-2 seconds. After finish, you can find the copy data from the storage.

4.5. Virtual Machines

In the Virtual Machines page, you can view all the VMs status you added into Vinchin Backup& Recovery system from [Virtual Infrastructure]. Click [Backup/Restore]-[Virtual Machines] you are coming to the VM page as below:

The screenshot shows the Vinchin interface for Virtual Machines. A dropdown menu is open, highlighting 'Virtual Machines'. The main table lists VMs with columns for No., VM Name, Status, Latest Backup, Job Name, Restore Points, Backup Size, and Operation. The 'Operation' column for unprotected VMs has a green 'Options' button.

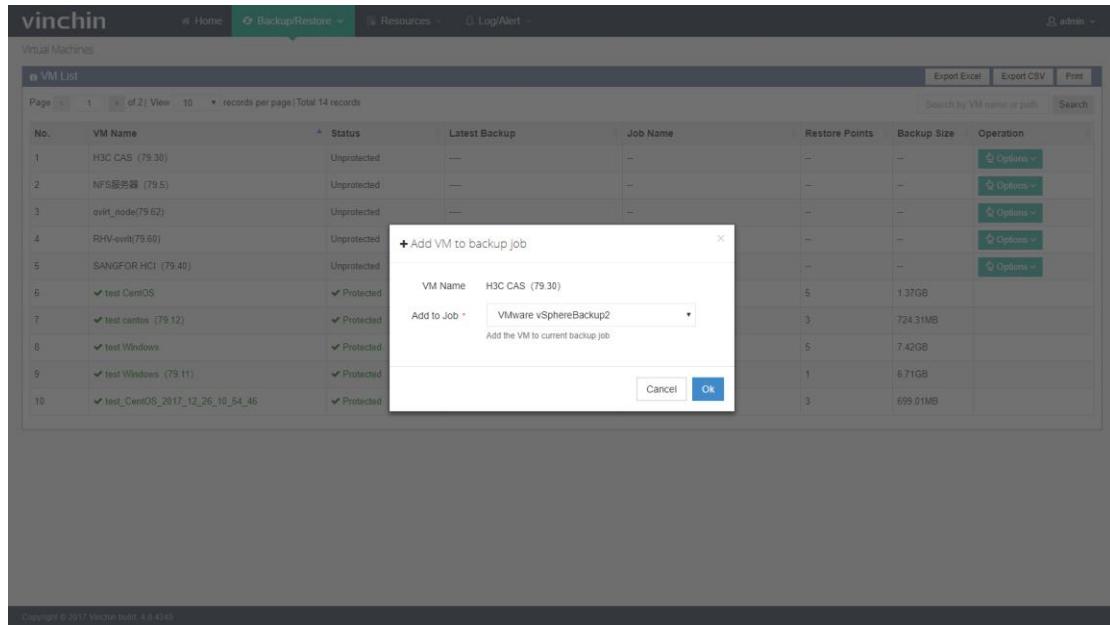
No.	VM Name	Status	Latest Backup	Job Name	Restore Points	Backup Size	Operation
1	H3C CAS (79.30)	Unprotected	----	--	--	--	Options
2	NFS服务器 (79.5)	Unprotected	----	--	--	--	Options
3	ovirt_node(79.62)	Unprotected	----	--	--	--	Options
4	RHV-ovirt(79.60)	Unprotected	----	--	--	--	Options
5	SANGFOR HCI (79.40)	Unprotected	----	--	--	--	Options
6	test CentOS	Protected	2017-12-26 14:14:18	Citrix XenServerBackup1	5	1.37GB	
7	test centos (79.12)	Protected	2017-12-26 12:19:04	VMware vSphereBackup1	3	724.31MB	
8	test Windows	Protected	2017-12-26 14:14:18	Citrix XenServerBackup1	5	7.42GB	
9	test Windows (79.11)	Protected	2017-12-26 12:17:39	VMware vSphereBackup2	1	6.71GB	
10	test_CentOS_2017_12_26_10_54_46	Protected	2017-12-26 12:23:15	Citrix XenServerBackup2	3	699.01MB	

You can manage the unprotected VMs, click [Options] under Operation, you can choose to add the VM to a current running backup job, or choose to create a new backup job for this VM as below:

The screenshot shows the same VM list as the previous image. The 'Options' button for the first VM is highlighted, and a dropdown menu is open showing 'Add to current job' and 'Create new job' options.

No.	VM Name	Status	Latest Backup	Job Name	Restore Points	Backup Size	Operation
1	H3C CAS (79.30)	Unprotected	----	--	--	--	Options + Add to current job + Create new job
2	NFS服务器 (79.5)	Unprotected	----	--	--	--	Options
3	ovirt_node(79.62)	Unprotected	----	--	--	--	Options
4	RHV-ovirt(79.60)	Unprotected	----	--	--	--	Options
5	SANGFOR HCI (79.40)	Unprotected	----	--	--	--	Options
6	test CentOS	Protected	2017-12-26 14:14:18	Citrix XenServerBackup1	5	1.37GB	
7	test centos (79.12)	Protected	2017-12-26 12:19:04	VMware vSphereBackup1	3	724.31MB	
8	test Windows	Protected	2017-12-26 14:14:18	Citrix XenServerBackup1	5	7.42GB	
9	test Windows (79.11)	Protected	2017-12-26 12:17:39	VMware vSphereBackup2	1	6.71GB	
10	test_CentOS_2017_12_26_10_54_46	Protected	2017-12-26 12:23:15	Citrix XenServerBackup2	3	699.01MB	

Click [Add to current job], you can choose a current backup job to add the target VM in as below:



Click [Create new job] you can create a new backup job for the target VM, details please refer to "Chapter 3.1.2. Create Backup Job".

5. Log/Alert

5.1. Job Log

Click [Log/Alert] – [Job Log], you are coming to the job log page, here has listed all the job logs details including job running status, time and description etc. as below:

The screenshot shows the Vinchin Job Log page. The navigation menu at the top includes 'Home', 'Backup/Restore', 'Resources', and 'Log/Alert'. The 'Log/Alert' menu is open, showing 'Job Log' as the selected option. Below the menu, there is a 'Log List' section with a 'Delete' button and a search bar. The main content is a table with columns: No., Job Name, Platform, Job Type, User, Time, Status, and Description. The table contains 10 rows of job logs, all with a 'Normal' status.

No.	Job Name	Platform	Job Type	User	Time	Status	Description
1	Citrix XenServerBackup2	Citrix XenServer	Backup	admin	2017-12-26 12:18:49	Normal	Job 'Citrix XenServerBackup2' has been created
2	VMware vSphereRestore1	VMware vSphere	Restore	admin	2017-12-26 12:12:04	Normal	Job 'VMware vSphereRestore1' has been created
3	VMware vSphereBackup2	VMware vSphere	Backup	admin	2017-12-26 12:08:56	Normal	Job 'VMware vSphereBackup2' has been created
4	VMware vSphereBackup1	VMware vSphere	Backup	admin	2017-12-26 12:08:38	Normal	Job 'VMware vSphereBackup1' has been created
5	Citrix XenServerInstant Recovery1	Citrix XenServer	Instant Recovery	admin	2017-12-26 11:36:26	Normal	Job 'Citrix XenServerInstant Recovery1' has been created
6	Citrix XenServerRestore1	Citrix XenServer	Restore	admin	2017-12-26 11:22:54	Normal	Job 'Citrix XenServerRestore1' has been stopped
7	Citrix XenServerRestore1	Citrix XenServer	Restore	admin	2017-12-26 11:07:39	Normal	Job 'Citrix XenServerRestore1' has been created
8	Citrix XenServerBackup1	Citrix XenServer	Backup	admin	2017-12-26 10:44:20	Normal	Job 'Backup as scheduled has been enabled
9	Citrix XenServerBackup1	Citrix XenServer	Backup	admin	2017-12-26 10:43:16	Normal	Job 'Citrix XenServerBackup1' has been stopped
10	Citrix XenServerBackup1	Citrix XenServer	Backup	admin	2017-12-26 10:40:04	Normal	Job 'Backup as scheduled has been enabled

You can search a certain job to delete by entering the job name via the top right search bar as below:

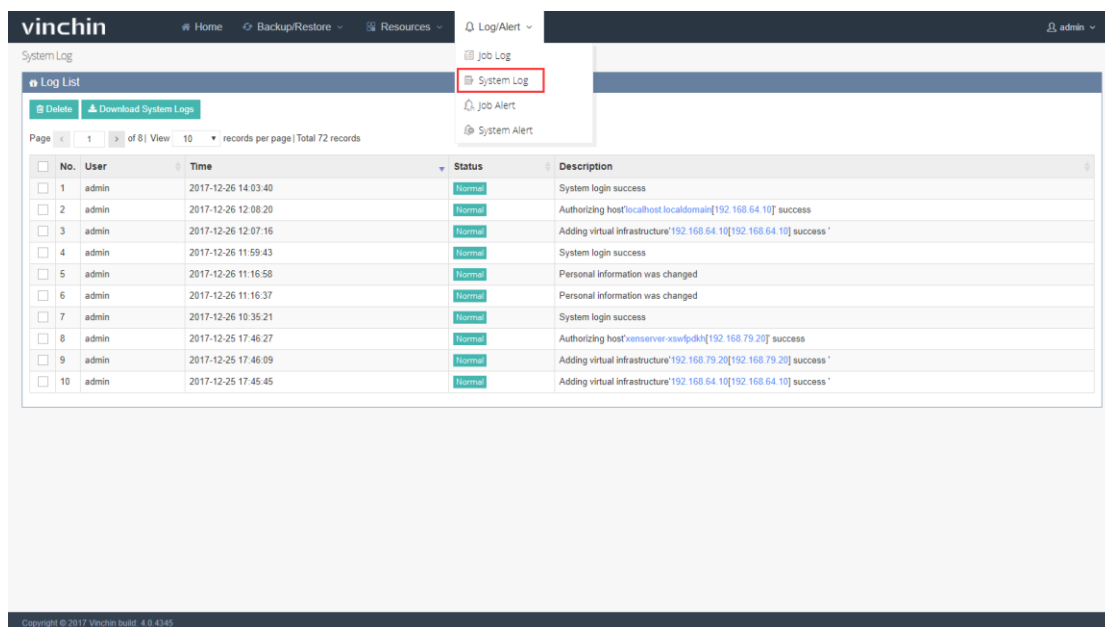
The screenshot shows the Vinchin Job Log page with a search bar at the top right. The search bar is highlighted with a red box. The table below shows the same 10 rows of job logs, but with checkboxes in the first column. The first three rows (1, 2, and 3) have their checkboxes checked, indicating they are selected for deletion.

No.	Job Name	Platform	Job Type	User	Time	Status	Description	
<input checked="" type="checkbox"/>	1	Citrix XenServerBackup2	Citrix XenServer	Backup	admin	2017-12-26 12:18:49	Normal	Job 'Citrix XenServerBackup2' has been created
<input checked="" type="checkbox"/>	2	VMware vSphereRestore1	VMware vSphere	Restore	admin	2017-12-26 12:12:04	Normal	Job 'VMware vSphereRestore1' has been created
<input checked="" type="checkbox"/>	3	VMware vSphereBackup2	VMware vSphere	Backup	admin	2017-12-26 12:08:56	Normal	Job 'VMware vSphereBackup2' has been created
<input type="checkbox"/>	4	VMware vSphereBackup1	VMware vSphere	Backup	admin	2017-12-26 12:08:38	Normal	Job 'VMware vSphereBackup1' has been created
<input type="checkbox"/>	5	Citrix XenServerInstant Recovery1	Citrix XenServer	Instant Recovery	admin	2017-12-26 11:36:26	Normal	Job 'Citrix XenServerInstant Recovery1' has been created
<input type="checkbox"/>	6	Citrix XenServerRestors 1	Citrix XenServer	Restore	admin	2017-12-26 11:22:54	Normal	Job 'Citrix XenServerRestore1' has been stopped
<input type="checkbox"/>	7	Citrix XenServerRestore1	Citrix XenServer	Restore	admin	2017-12-26 11:07:39	Normal	Job 'Citrix XenServerRestore1' has been created
<input type="checkbox"/>	8	Citrix XenServerBackup1	Citrix XenServer	Backup	admin	2017-12-26 10:44:20	Normal	Job 'Backup as scheduled has been enabled
<input type="checkbox"/>	9	Citrix XenServerBackup1	Citrix XenServer	Backup	admin	2017-12-26 10:43:16	Normal	Job 'Citrix XenServerBackup1' has been stopped
<input type="checkbox"/>	10	Citrix XenServerBackup1	Citrix XenServer	Backup	admin	2017-12-26 10:40:04	Normal	Job 'Backup as scheduled has been enabled

Note: Once deleted, the job log is not recoverable.

5.2. System Log

Click [Log/Alert] – [System Log], you are coming to the system log page, here has listed all the system logs details including status, time and description etc. as below:



System Log

Log List

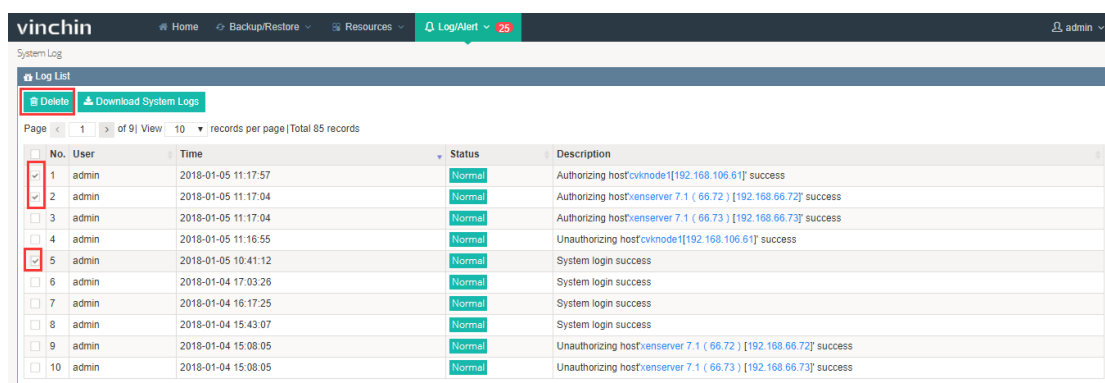
Delete Download System Logs

Page 1 of 8 | View 10 records per page | Total 72 records

No.	User	Time	Status	Description
1	admin	2017-12-26 14:03:40	Normal	System login success
2	admin	2017-12-26 12:08:20	Normal	Authorizing host[localhost.localdomain][192.168.64.10] success
3	admin	2017-12-26 12:07:16	Normal	Adding virtual infrastructure'192.168.64.10[192.168.64.10] success'
4	admin	2017-12-26 11:59:43	Normal	System login success
5	admin	2017-12-26 11:16:58	Normal	Personal information was changed
6	admin	2017-12-26 11:16:37	Normal	Personal information was changed
7	admin	2017-12-26 10:35:21	Normal	System login success
8	admin	2017-12-25 17:46:27	Normal	Authorizing host[xenserver-xowpdkh][192.168.79.20] success
9	admin	2017-12-25 17:46:09	Normal	Adding virtual infrastructure'192.168.79.20[192.168.79.20] success'
10	admin	2017-12-25 17:45:45	Normal	Adding virtual infrastructure'192.168.64.10[192.168.64.10] success'

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You can choose target system logs to delete as below:



System Log

Log List

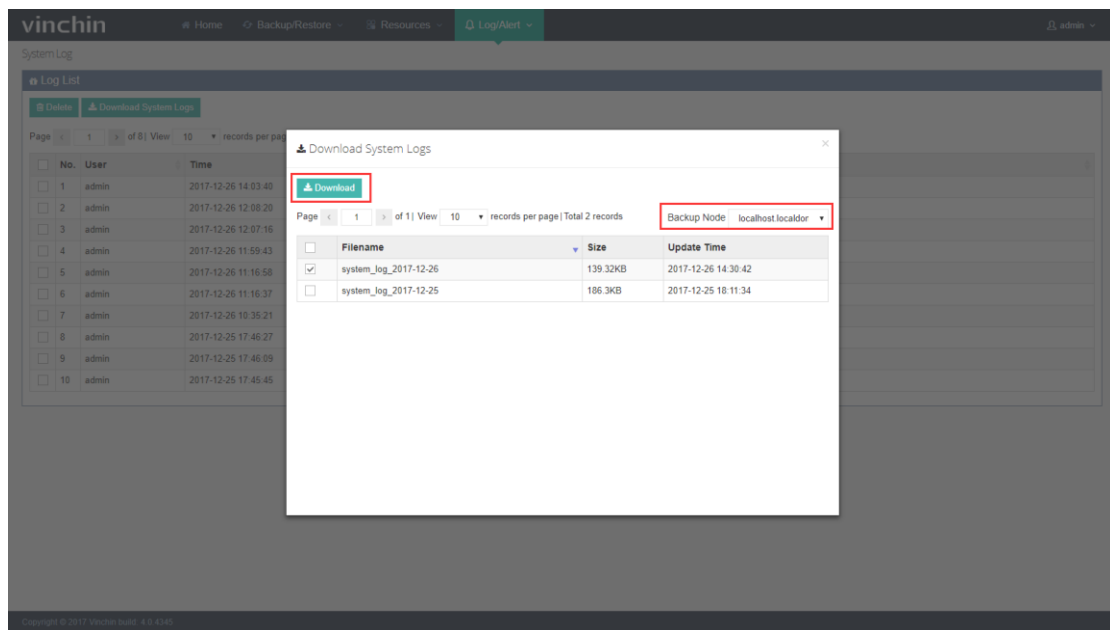
Delete Download System Logs

Page 1 of 9 | View 10 records per page | Total 85 records

No.	User	Time	Status	Description
1	admin	2018-01-05 11:17:57	Normal	Authorizing host[cvnode][192.168.106.61] success
2	admin	2018-01-05 11:17:04	Normal	Authorizing host[xenserver 7.1 (66.72) [192.168.66.72]] success
3	admin	2018-01-05 11:17:04	Normal	Authorizing host[xenserver 7.1 (66.73) [192.168.66.73]] success
4	admin	2018-01-05 11:16:55	Normal	Unauthorized host[cvnode][192.168.106.61] success
5	admin	2018-01-05 10:41:12	Normal	System login success
6	admin	2018-01-04 17:03:26	Normal	System login success
7	admin	2018-01-04 16:17:25	Normal	System login success
8	admin	2018-01-04 15:43:07	Normal	System login success
9	admin	2018-01-04 15:08:05	Normal	Unauthorized host[xenserver 7.1 (66.72) [192.168.66.72]] success
10	admin	2018-01-04 15:08:05	Normal	Unauthorized host[xenserver 7.1 (66.73) [192.168.66.73]] success

Note: Once deleted, the system log is not recoverable.

If you want to download the system logs, you can click [Download System Logs], then select backup node and choose a system log file in a certain day to download as below:



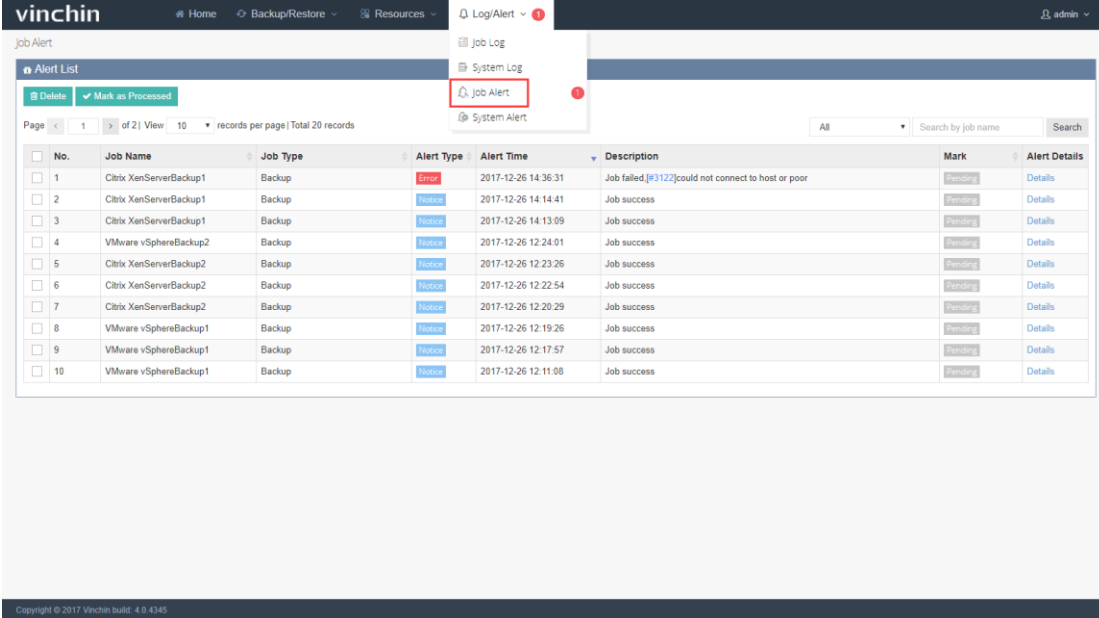
The downloaded log file name is "system_log.zip", includes:

名称	修改日期	类型	大小
node_server-2017-12-26.log	2017/12/26 14:31	文本文档	2 KB
pt_server-2017-12-26.log	2017/12/26 14:31	文本文档	3 KB
rt_server-2017-12-26.log	2017/12/26 14:31	文本文档	93 KB
vm_server-2017-12-26.log	2017/12/26 14:31	文本文档	44 KB
vxefs-2017-12-26.log	2017/12/26 14:31	文本文档	3 KB

5.3. Job Alert

Click [Log/Alert]-[Job Alert], you are coming to the job alert page. In this page you are

able to view each job running alert including "Notice" "Warning" "Error", you can also delete them as below:

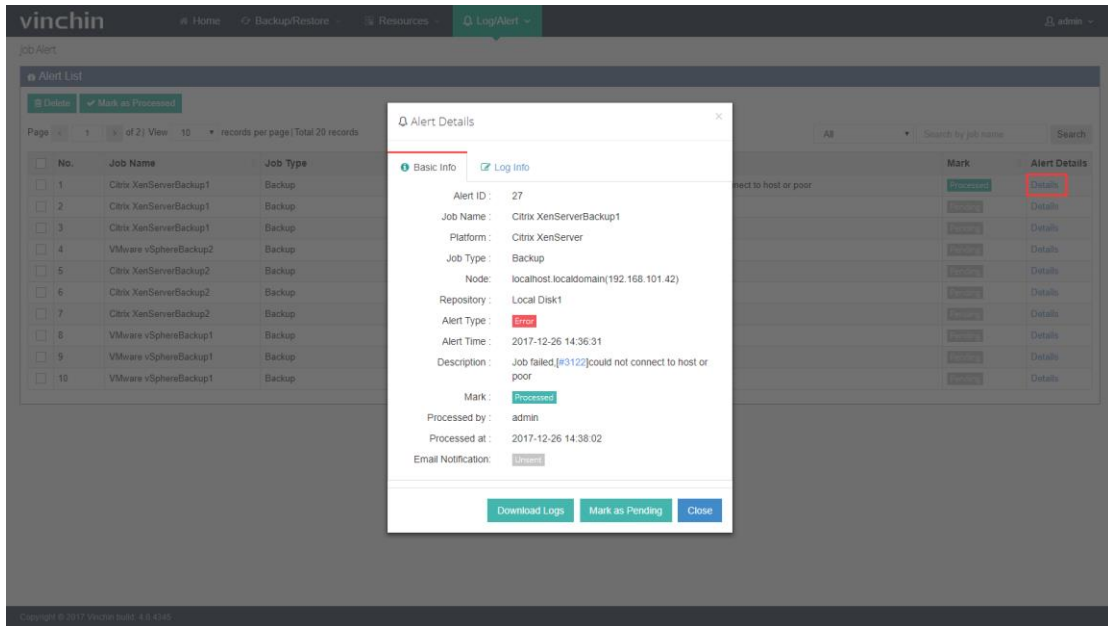


The screenshot displays the Vinchin Job Alert management interface. At the top, there is a navigation bar with 'Home', 'Backup/Restore', and 'Resources' menus, and a search bar for 'Log/Alert'. Below this, a 'Job Alert' section contains an 'Alert List' table and a dropdown menu. The dropdown menu, which is highlighted with a red box, includes options for 'Job Log', 'System Log', 'Job Alert', and 'System Alert'. The 'Alert List' table has columns for 'No.', 'Job Name', 'Job Type', 'Alert Type', 'Alert Time', 'Description', 'Mark', and 'Alert Details'. The table contains 10 rows of data, with the first row showing an 'Error' alert for 'Citrix XenServerBackup1' at 2017-12-26 14:36:31, with a description 'Job failed [IP:122] could not connect to host or poor'. The other rows show 'Notice' alerts for various backup jobs, all with a 'Mark' of 'Pending' and a 'Details' link.

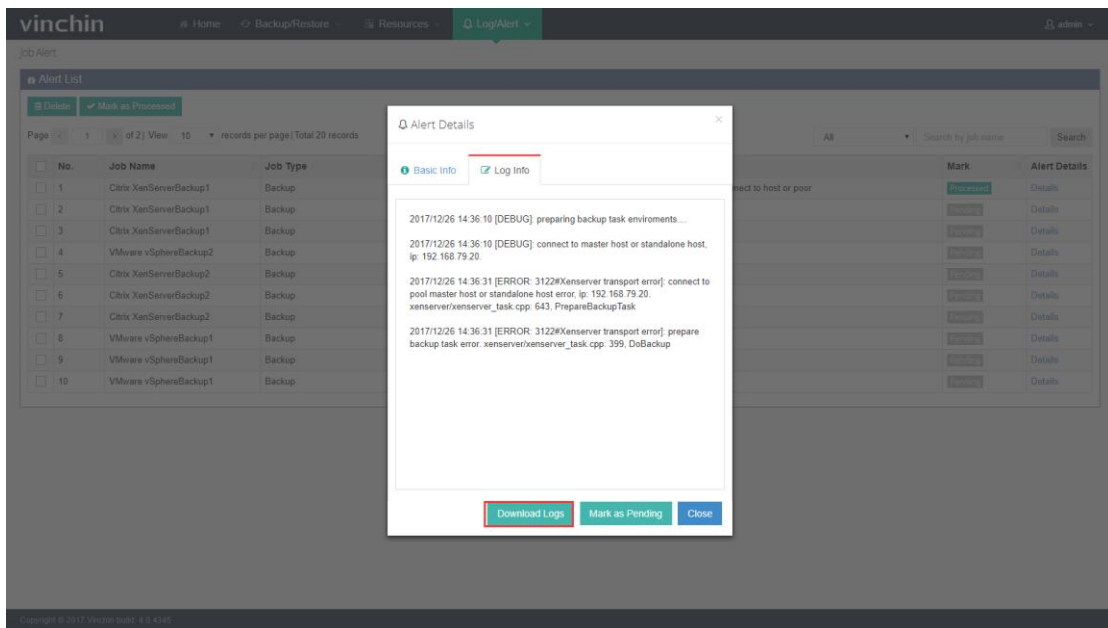
No.	Job Name	Job Type	Alert Type	Alert Time	Description	Mark	Alert Details
1	Citrix XenServerBackup1	Backup	Error	2017-12-26 14:36:31	Job failed [IP:122] could not connect to host or poor	Pending	Details
2	Citrix XenServerBackup1	Backup	Notice	2017-12-26 14:14:41	Job success	Pending	Details
3	Citrix XenServerBackup1	Backup	Notice	2017-12-26 14:13:09	Job success	Pending	Details
4	VMware vSphereBackup2	Backup	Notice	2017-12-26 12:24:01	Job success	Pending	Details
5	Citrix XenServerBackup2	Backup	Notice	2017-12-26 12:23:26	Job success	Pending	Details
6	Citrix XenServerBackup2	Backup	Notice	2017-12-26 12:22:54	Job success	Pending	Details
7	Citrix XenServerBackup2	Backup	Notice	2017-12-26 12:20:29	Job success	Pending	Details
8	VMware vSphereBackup1	Backup	Notice	2017-12-26 12:19:26	Job success	Pending	Details
9	VMware vSphereBackup1	Backup	Notice	2017-12-26 12:17:57	Job success	Pending	Details
10	VMware vSphereBackup1	Backup	Notice	2017-12-26 12:11:08	Job success	Pending	Details

Note: Once deleted, the job alert is not recoverable.

New job alert is default marked as pending, if you have checked this alert and processed accordingly, you can mark it as processed by clicking [Mark as Processed]. Click Details you can see the job alert details as below:

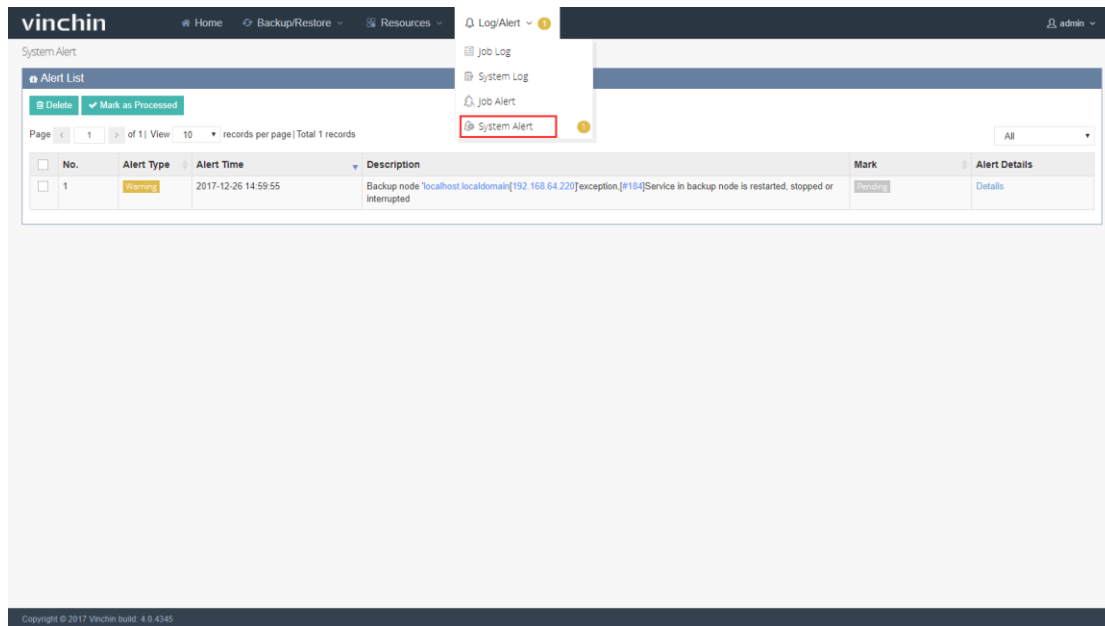


If it is an error alert, you can check the error info from “Log Info” page as below, and you can download the log details.



5.4. System Alert

Click [Log/Alert]-[System Alert], you are coming to the system alert page. In this page you are able to view system running alert including "Notice" "Warning" "Error", you can also delete them as below:



The screenshot displays the 'System Alert' page in the Vinchin interface. At the top, there is a navigation bar with 'Home', 'Backup/Restore', and 'Resources'. The 'Log/Alert' menu is open, showing options for 'Job Log', 'System Log', 'Job Alert', and 'System Alert' (which is highlighted with a red box). Below the navigation, the 'Alert List' section includes a 'Delete' button and a 'Mark as Processed' button. The main content area features a table with the following data:

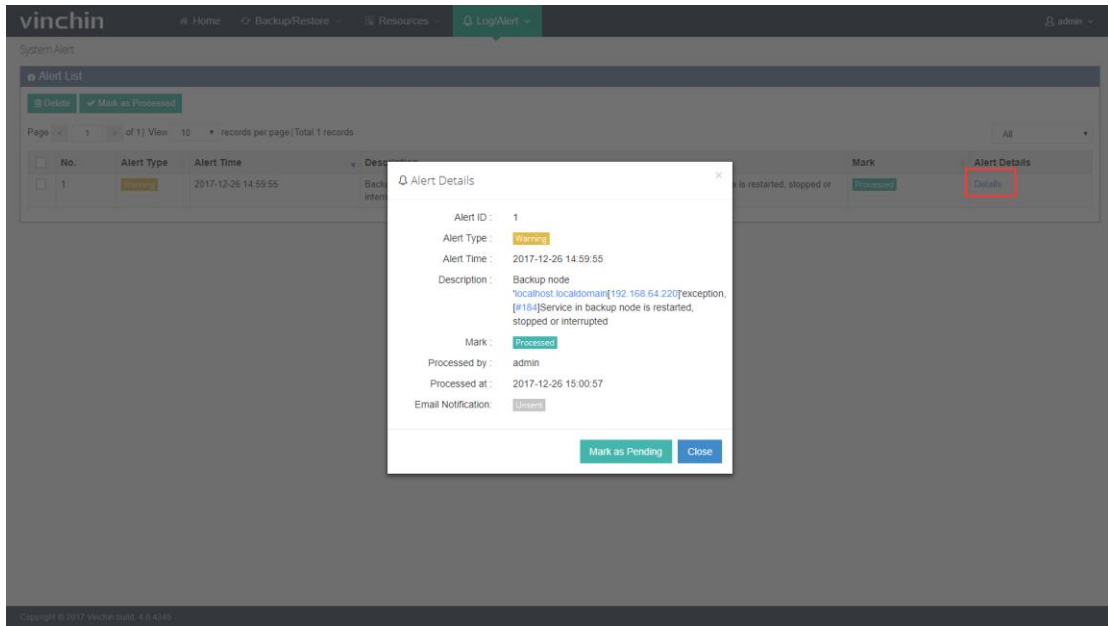
No.	Alert Type	Alert Time	Description	Mark	Alert Details
1	Warning	2017-12-26 14:59:55	Backup node 'localhost.localdomain'[192.168.64.220]exception[#184]Service in backup node is restarted, stopped or interrupted	PENDING	Details

At the bottom of the page, the footer reads 'Copyright © 2017 Vinchin build: 4.0-6345'.

Note: Once deleted, the system alert is not recoverable.

New system alert is default marked as pending, if you have checked this alert and processed accordingly, you can mark it as processed by clicking [Mark as Processed].

Click Details you can see the system alert details as below:



6. Admin

Click [Admin] on the top right, you will see several basic settings as below:

The screenshot displays the Vinchin dashboard interface. At the top, there is a navigation bar with the Vinchin logo, a 'Home' button, and several menu items: 'Backup/Restore', 'Resources', and 'Log/Alert'. On the far right of the navigation bar, the user's name 'admin' is displayed, and a red box highlights the 'Admin' dropdown menu. This menu includes the following options: 'My Information', 'Change Password', 'Lock Screen', 'About Us', 'Help', and 'Logout'. The main dashboard area contains several widgets: 'System Uptime' (27.6Hours), 'Total Backup' (46.55GB), and '17Jobs History'. Below these are charts for 'VM & Repository' (showing VM-Protected and VM-Unprotected counts), 'CPU Usage' (a line graph showing usage over time), and 'Network Flow' (a line graph showing network activity). On the right side, there is a 'Job Monitor' section with tabs for 'Current Job' and 'History Job'. The 'History Job' tab is active, showing a list of backup and restore jobs with their status (e.g., Pending, Succeeded) and completion times.

6.1. My Information

Click [My Information] you can edit email address, phone number and change language (currently support English, Chinese simple, Chinese Traditional) .

The screenshot shows the 'User Information' page in the Vinchin interface. The page title is 'User Information' and the sub-section is 'My Information'. The user's details are as follows:

Username	admin
Email Address	<input type="text" value="123456@qq.com"/>
Phone Number	<input type="text" value="12345678900"/>
Language	<input type="text" value="English"/>

At the bottom right of the form, there are two buttons: 'Back' and 'Save'. The footer of the page reads 'Copyright © 2017 Vinchin build: 4.0.4345'.

6.2. Change Password

Here you can change system login password as below:

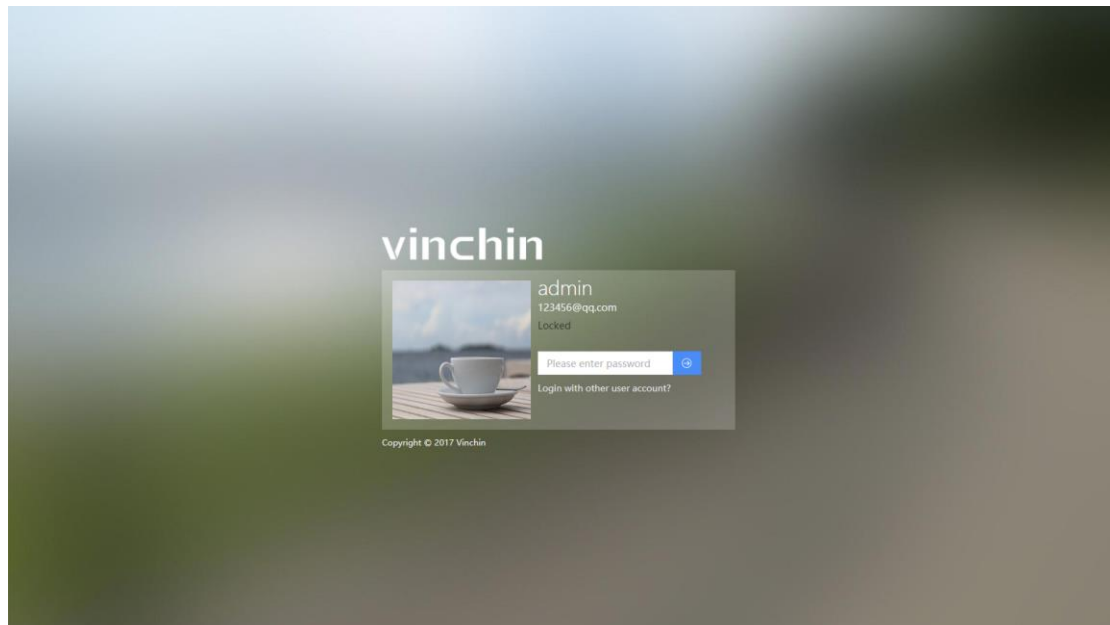
The screenshot shows the 'Change Password' page in the Vinchin interface. The page title is 'Change Password' and the sub-section is 'Change Password'. The form contains three input fields:

- Original password *
- New password *
- Confirm new password *

At the bottom right of the form, there are two buttons: 'Back' and 'Save'. The footer of the page reads 'Copyright © 2017 Vinchin build: 4.0.4345'.

6.3. Lock Screen

Here you can manually lock the system as below:



6.4. About us

Here is the link to Vinchin Official Website.

6.5. Help

If you need any support during using Vinchin Backup & Recovery system, you can contact us via [Help].

6.6. Logout

Click[Logout] to manually log out Vinchin Backup& Recovery system as below:

