vinchin

VINCHIN BACKUP & RECOVERY V4.0

Quick Installation Guide

Install on Sangfor HCI Virtual Server

2018/11

INNOVATIVE VM BACKUP PROVIDER VMware Backup | XenServer Backup | KVM Backup







Partner Independent Software Vendor

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Create New Virtual Machine

To install the Vinchin backup server on a SANGFOR HCI host, first you need to connect the SANGFOR HCI management platform with the host. Then create a new virtual machine via the management platform. Before creating new virtual machine, you need to upload Vinchin Backup & Recovery ISO file to ISO library. Steps are as follows:

Click "Compute", then click " New" to create a new virtual machine.



Click "Create New Virtual Machine"

aCloud Platform	aCloud								
View By Group	✓ Pane		esh 🕂 New 📑	New Group	∎ Select 1	Sort 🗸 🔝 R	Recycle Bin Name	C	λ Advanced γ
Crea	te New Virtual Mac	hine						×	
Choo	se a way to create a new	virtual machine.		Choose a	way to create a ne	w virtual machine			
DR \$ Prod Sime	Create New Operating system	Virtual Machine em should be installed afte	wards via an ISO file		Create Stan	Idalone Oracle	Database Idalone Oracle database		server2
	Clone VM Clone an existi	ng virtual machine			Create Orac The wizard he	cle RAC Databa	ase (cluster) cle RAC database		d Off
Defa	Browse a file or	I Machine n this local PC			Create SQL This wizard he	. Server elps to create SQI	L server		
		Powered Off	Powered Off	F	Powered Off	OS Is	Not Installed	OS Is Not	Installed

Type a name for the new virtual machine, select "CentOS" as Guest OS. Make sure processor at least 4 cores, memory 8GB. Add two disk, one disk at least 100GB as system disk, another disk as data backup repository (allocate a space according to your needs).

SANGFOR aC aCloud Platform	Cloud Ho	ome Comput	e Networking	Storage Nodes	s System	() Health Check	(!) System Admin
View By Group	Create New Virtual	Machine				×	Q Advanced~
E E Group		Name:	vinchin backup				
College(0)		Group:	Default Group		<u></u> ●		
DR Server(8)		Tag:	Select				
Production(1)		HA:	Migrate to another	r node if the node fails HA S	ettings		
SimonLab(2)		Datastore:	Datastore_2_copy		~		2
TKP(4)		Run on Node:	<auto></auto>		~		
(UAT(0)		Guest OS:	CentOS		~		
VM farm(4)	Configuration	Advanced					
macro(0)	Standard: Low	Typical Hig	h	Cores: 4 core(s)			
	Processor 4	core(s)					
	Memory 8	GB		Virtual Sockets: 1	~		
	- Disk 1 1	00 GB		Cores Per Socket: 4	~		
	Disk 2 8	00 GB		Enable NUMA Scheduler			
	O CD/DVD 1 N	lone		Use CPU from host 🕕			ed
	💼 eth0 C	connected To: WAN					
					ок	Cancel	
	•	2	9.4	110 P.C.	92.	•2-	

Then click "CD/DVD 1" to load the vinchin ISO image file, then click "OK".

SANGFOR aC aCloud Platform	loud	Home Compu	e Networking	Storage	Nodes S	System	Health Check	(!)	
Uiew By Group	Create New Virtu	al Machine					×		Q Advanced~
Group	•••	Tag:	Select			•••	· · · · · · · · · · · · · · · · · · ·		
🖃 📄 Virtual Machine(24)	2	HA:	Migrate to another	node if the node fails	HA Settings				
College(0)		Datastore:	Datastore_2_copy			~			
DR Server(8)		Run on Node:	<auto></auto>			~			
···· Production(1)		Guest OS:	CentOS			~		2	
SimonLab(2)	Configuration	Advanced						2	
(TKP(4)	Standard: Low	Typical Hid	th	CD/DVD Drive					
(UAT(0)		i) prodi							
···· 💼 VM farm(4)	Processor	4 core(s)		Load ISO image f	ile				
macro(0)	Memory	8 GB				Browse			
Default Group(5)	Disk 1	100 GB					-		
	- Disk 2	800 GB		Upload from this	Local PC				
	O CD/DVD 1	None							
	💼 eth0	Connected To: WAN							
	👹 Other Hardwa	ares							
	🕣 Add Hardwa	re ▼						ed	
						ок	Cancel		
	100		9.4			94	•		

Install Backup Server

After new VM created, power on the VM and start installing the Vinchin Backup & Recovery iSO file. Choose "Install CentOS 7" and press [Enter] button on the keyboard. Then a few seconds later, you will be entering the **"INSTALLATION SUMMARY"** page.

	ContOS 7
Install CentOS 7 Boot from local dri	ve
Press Tab for full	configuration options on menu items.

Click "DATE & TIME" to set up time for your Vinchin backup server.





Click the **"INSTALLATION DESTINATION"** and choose the 100GB hard disk as system disk and click **[Done]**.



	CENTOS LINUX 7 INSTALLATION I us Help!
Device Selection	
Select the device(s) you'd like to install to. They will be left untouched until you click on th	e main menu's "Begin Installation" button.
Local Standard Disks	
100 GIB 800 GIB	
xvda / 100 GiB free xvdb / 800 GiB free	
	Disks left unselected here will not be touched.
Specialized & Network Disks	
Add a disk	
	Disks left unselected here will not be touched.
Other Storage Options	
Partitioning	
Automatically configure partitioning. I will configure partitioning.	
I would like to make additional space available.	
Encryption Encrypt my data. You'll set a passphrase next.	
Full disk summary and boot loader	1 disk selected; 100 GiB capacity; 100 GiB free <u>Refresh</u>

Click "NETWORK&HOST NAME", then Click 【Configure...】.



NETWORK & HOST NAME	CENTOS LINUX 7 INSTALLATION E us Help!
Ethernet (ens160) VMware VMXNET3 Ethernet Controller	Ethernet (ens160) Disconnected Hardware Address 00:50:56:87:64:99 Speed 10000 Mb/s Subnet Mask 127.0.0.1
+ - Host name: localhost.localdomain	Configure Apply Current host name: localhost.localdomain

Click "IPv4 Settings" \rightarrow Choose "Manual" in the "Method" selection \rightarrow Click [Add] to enter your network IP address information, example as below. Then click [Save] to save your configuration data.

NETWORK & HO	OST NAME			CENTOS LIN us	IUX 7 INST	Help!
		Editing e	ens160			
Connection name:	ens160				_	
General	Ethernet	802.1X Security	DCB	IPv4 Settings	IPv6 S	Settings
Method: Manua	il				-	•
Addresses					_	
Address		Netmask	G	iateway		Add
192.168.65.5		255.255.192.0	19	92.168.64.1		Delete
DNS servers:	192.168.128.2					
Search domains	:					
DHCP client ID:						
Require IPv4	addressing for this	connection to complete	3			
						Routes
					Cancel	Save

Click the red marked button in below to enable the Ethernet connection, you will see the configured network information. Click [**Done**] on the left top to return back to home page.

NETWORK & HOST NAME		CENTOS LIN us	UX 7 INSTALLATION
Ethernet (ens160) VMware VMXNET3 Ethernet Controller	Hardwara Address	Ethernet (ens160) Connected	ON
	Speed	10000 Mb/s	
	IP Address	192.168.65.5	
	Subnet Mask	255.255.192.0	
	Default Route	192.168.64.1	
	DNS	192.168.128.2	
+ - Host name: localhost.localdomain	Apply	Current host name:	Configure

Other options are defaultly configured, directly click [Begin installation] to install.



	I				
	CONFIGUI	RATION		CENTOS LINUX 7 INS	STALLATION Help!
CentOS	USER SET	TINGS			
	C7	ROOT PASSWORD Root password is set		USER CREATION No user will be cr	eated
	Complete!				
			CentOS Linux is now suc	cessfully installed and rea Go ahead and reboo	dy for you to use at to start using it Reboot
	🛆 Use of th	is product is subject to the li	cense agreement found at	/usr/share/centos-release/	/EULA

After installation completed, click [**Reboot**] to reboot the VM.

After VM rebooted, you can login to the Web UI of Vinchin Backup & Recovery to start backup and recovery jobs. Enter the IP address of Vinchin Backup& Recovery to access the web login page. **(Google Chrome browser is recommended.)**

Default login username: admin Password: 123456

vinchin	
Vinchin Backup & Recovery	
Lusername	
Password	
Remember password Download Backup Plug-in	
Login ⊚ Forgot password?	
You can contact the administrator to reset your password	
Copyright © 2017 Vinchin build: 4.0.4345	

IMPORTANT:

Before backing up VMs under SANGFOR HCI environments, you need to install a "Backup Plugin" in each host where runs your business systems.

Install Backup Plug-in

Download the "backup plug-in" from the Vinchin web login page. Click [**Download Backup Plug-in**] \rightarrow select SANGFOR HCI and corresponding version, then click [**Download**]. Copy the downloaded plugin to your SANGFOR HCI host root directory for installation.

Vinchin Vinchin Backup & Recovery	V	inchin
👗 Username	Down	lload Backup Plug-in
Password	Platform	SANGFOR HCI
Remember password	Version	Citrix XenServer H3C CAS
Download Backup Plug-in Login ⊙ Forgot password? You can contact the administrator to reset your		SANGFOR HCT InCloud Sphere OpenStack Compute OpenStack Controller Redhat RHV/Ovirt
password	Copyrig	ht © 2018 Vinchin build: 4.0.5151
Copyright © 2017 Vinchin build: 4.0.4345		

Install the SANGFOR HCI backup plug-in on each SANGFOR HCI host /root directory, you need to log in sangfor host backend, if you don't know the sangfor host backend username and password, please contact sangfor support team.

Installation/Uninstallation of **SANGFOR HCI** backup plugin: Unzip the plugin file command: tar –zxvf vinchin-kvm-backup-xxxx.tar Unzip directory enter command: cd vinchin-kvm-backup-xxxx Install command: ./kvm_backup_patch_install Uninstall command: ./kvm_backup_patch_uninstall

[root@rhev3 ~]# ls
anaconda-ks.cfg_ <u>vinchin_kym-backup-patch-4_A_1145-RHFL_7-x86_64_tar_gz</u>
[root@rhev3 ~]# tar -zxvf vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64.tar.gz
vinchin-kvm-backup-patcn-4.0.4145-KHEL./-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-bac <u>kup-patch-4-0-4145-RHFL 7-x86_64/kvm_backup_patch_uni</u> nstall
[root@rhev3 ~]# cd vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64
[root@rhev3 vin chin-kvm-backap-patch-4.0.4145-N/EL.7-x00_04]# 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 <u>kvm_backup_service service م</u> اط kvm_backup_watch_dog.sh
[root@rhev3 vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64] //kvm_backup_patch_install
check the installation environmentdone

Install Backup Node (Optional)

A backup node is an individual backup server without web console, it is managed by the web console of vinchin backup server.

In large virtualization environment with large volume of data, computing resources and network resources are limited. How to effectively backup the VMs and occupy the minimal resources, Vinchin adopts "multiple backup nodes" method.

Deploying multiple backup nodes in large environment can split the overall computing and storage resources in backup server to realize a horizontal expansion of the resources. Also doing backup concurrently from multiple backup nodes can increase the network transmission bandwidth exponentially and make your backup much faster.

Record Vinchin backup node iSO file vinchin-node_enterprise-4.0.xxxx.iso to USB disk or CD, detailed installation steps please follow chapter "**Record iSO File**".

Note: There is no web console on backup node, all backup nodes are managed by the web console of backup server.

The backup node's IP address shall be different from the backup server, but make sure they are connected with each other.

After the backup node is installed successfully, you can login the backup node's OS to modify config files.

Backup node OS username: root Password: 12345678

CentOS Linux 7 (Core) Kernel 3.10.0-514.6.2.el7.x86_64 on an x86_64 localhost login: root Password: [root@localhost ~]# _

Edit config file: vi /etc/common_server.conf.xml

[root@localhost ~]# vi /etc/common_server.conf.xml

Modify the server_ip and database_ip to Backup Server's IP address.

xml version="1.0" encoding="UTF-8" ?
<common-server-conf></common-server-conf>
<install_path><opt< install_path="" vinchin<=""></opt<></install_path>
<server_ip>0.0.0.0</server_ip>
<pre><server_port>zzzzlu</server_port></pre>
<database_ip>0.0.0.0</database_ip>
<database_port>3306</database_port>
<database_name>vinchin_db</database_name>
<database_user>vinchin</database_user>
<pre><database_passwd>yunqi123456</database_passwd></pre>
<storage_pref ix="">/backup_storage/</storage_pref>
<pre><control_message_timeout>900</control_message_timeout></pre>
<pre><server_key_name>/etc/vinchin/pt_server.key</server_key_name></pre>
<pre><client_key_name>/etc/vinchin/pt_client.key</client_key_name></pre>
<pre><certificate_pem>/etc/vinchin/certificate.pem</certificate_pem></pre>
<private_key_pem>/etc/vinchin/private_key.pem</private_key_pem>
<log_dir>/var/log/vinchin</log_dir>
<conf ig_dir="">/etc/vinchin</conf>
<pid_dir>/var/run/vinchin</pid_dir>

Enclose: vi editor often-used command

- i Insert
- esc Exit the editor
- : wq Save & exit

Please reboot the backup node OS after you modify its config files: reboot

[root@localhost ~]# reboot

After rebooting the backup node OS, log in the backup server's web console with default **username : admin , password: 123456**. You can view the installed backup node information in the [Resources] \rightarrow [Backup Node].



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