vinchin

VINCHIN BACKUP & RECOVERY V4.0

Quick Installation Guide

Install on VMware Virtual Server

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Partner Independent Software Vendor

CONTENTS

Create New Virtual Machine	2
Install Backup Server	7
Install Backup Node (Optional)	15

Create New Virtual Machine

To install the Vinchin Backup & Recovery on a VMware vSphere ESXi host, first you need to connect the vSphere Client with the host or vCenter. Then create a new virtual machine via the vSphere Client. After that, you can install the Vinchin backup server iSO file.

Right click a target host, then click [New Virtual Machine...] to create a new VM.



Select "Typical"	by default in the VM creating page	e, and click [Next] to the next page.

🕝 Create New Virtual Machir	e	-		×
Configuration Select the configuration fo	r the virtual machine	Virtual M	lachine Vei	rsion: 11
Configuration Name and Location Storage Guest Operating System Network Create a Disk Ready to Complete	Configuration Typical Create a new virtual machine with the most common devices and confi C Custom Create a virtual machine with additional devices or specific configuration	guration optio	ns,	
	≤Back	Next ≥	Car	ncel

Type a name for the new VM and click [Next].

🕝 Create New Virtual Machin	e	_		×
Name and Location Specify a name and locatio	n for this virtual machine	Virtual M	achine Ver	sion: 11
Configuration Name and Location Storage Guest Operating System Network Create a Disk Ready to Complete	Name: Virtual machine (VM) names may contain up to 80 characters and they must be vCenter Server VM folder. VM folders are not viewable when connected directly to a host. To view VM for for this VM, connect to the vCenter Server.	e unique within	n each	ion
	Back	Next ≥	Can	cel

Create New Virtual Machi	ne					_	
Select a destination stora	age for the virtual mach	nine files			V	irtual Mach	nine Version:
Configuration	Select a destination	storage for the virtu	ual machine files	s:			
Name and Location Storage	Name	Drive Type	Capacit	y Provisioned	Free	Туре	Thin Pr
uest Operating System	datastore1	Non-SSD	271.00 G	B 973.00 MB	270.05 GB	VMFS5	Suppo
Create a Disk Ready to Complete							
	< Disable Storage	ge DRS for this virtual	machine				:
	C Disable Storag	e DRS for this virtual	machine				:
	C Disable Storag Select a datastore	pe DRS for this virtual :: Drive Type	machine Capacity	Provisioned	Free	Туре	Thin Pr
	C Disable Storag Select a datastore	ge DRS for this virtual :: Drive Type	Capacity 1	Provisioned	Free	Туре	Thin Pro
	C Disable Storag	ge DRS for this virtual :: Drive Type	Capacity	Provisioned	Free	Туре	Thin Pro

Select a destination storage for the new VM and click [Next].

Choose "Linux" as guest OS and correspoding version please choose "CentOS 4/5/6/7 (64-bit)", then click [Next].

🕜 Create New Virtual Machin	e		-		×
Guest Operating System Specify the guest operating	g system to use with this virtual machine	Vir	rtual Ma	achine Ver	sion: 11
Configuration Name and Location Storage Guest Operating System Network Create a Disk Ready to Complete	Guest Operating System:	vide the appro	priate c	defaults fo	r
	<u>≤</u> Back	Next	≥	Can	cel

Configure network connections for the new VM as below, then click [Next]. (Note: please connect at least one NIC.)

🕝 Create New Virtual Machin	e	_		х
Network Which network connection	s will be used by the virtual machine?	Virtual M	lachine Versio	on: 11
Configuration Name and Location Storage Guest Operating System Network Create a Disk Ready to Complete	Create Network Connections How many NICs do you want to connect? Network NIC 1: VM Network If supported by this virtual machine version, more than 4 NICs can be a virtual machine is created, via its Edit Settings dialog. Adapter choice can affect both networking performance and migration co the VMware KnowledgeBase for more information on choosing among th supported for various guest operating systems and hosts.	vidded afte mpatibilit e network	Connect at Power On] I	
	≤Back	lext ≥	Cance	

Specify a size for the virtual disk to use as system disk. Then click [Next]. (100+GB is recommended.)

🕝 Create New Virtual Machir	ne			-		×
Create a Disk Specify the virtual disk size	e and provisioning policy			Virtual Ma	chine Ver	sion: 11
Configuration Name and Location Storage Guest Operating System Network Create a Disk Ready to Complete	Datastore: Available space (GB): Virtual disk size: © Thick Provision Lazy 7 © Thick Provision Eager © Thin Provision	local disk 1712.0 ↓ 10(→ GB ▼ Zeroed Zeroed				
			≤Back	$Next \geq$	Can	cel

Then tick "Edit the virtual machine settings before completion" and click [Continue] to the next page.

🕜 Create New Virtual Machir	ne		-		×
Ready to Complete Click Finish to start a task	that will create the new virtual mac	hine	Virtual M	lachine Ve	rsion: 11
Configuration Name and Location Storage Guest Operating System Network Create a Disk Ready to Complete	Settings for the new virtual max Name: Host/Cluster: Datastore: Guest OS: NICS: NIC 1 Network: NIC 1 Type: Disk provisioning: Virtual Disk Size: Virtual Disk Size:	thine: vinchin backup localhost. local disk CentOS 4/5/6/7 (64-bit) 1 VM Network VMXNET 3 Thick Provision Lazy Zeroed 100 GB tings before completion thine (VM) does not include automatic installa on the VM after creating the VM.	tion of the gue	est operati	ng
		<u>≤</u> Back	Continue	Car	ncel

In this page, you can specify Memory size, CPU number and add New Hard Disk for the VM. 2CPU cores and 4GB RAM are minimum required. We recommend at least 4CPU cores and 8GB RAM, and better to add a hard disk as backup repository (disk capacity can be set according to your actual demands), then click [**Finish**] to complete the new VM creation.

🕝 vinchin backup - Virtual Machin	e Properties	– 🗆 X
Hardware Options Resources		
Show All Devices	Add Remove	Disk File
Hardware	Summary	
📠 Memory (adding)	8192 MB	Disk Provisioning Type: This Provision
CPUs (adding)	4	
📃 Video card (adding)	Video card	Provisioned Size: 800 - GB -
VMCI device (adding)	Deprecated	Maximum Size (GB): N/A
New CD/DVD (adding)	Client Device	
New Floppy (adding)	Client Device	Virtual Device Node
New SCSI Controller (add	LSI Logic Parallel	SCSI (0:1)
New Hard Disk (adding)	Virtual Disk	·
New Hard Disk (adding)	Virtual Disk	Mode
		Independent disks are not affected by snapshots. C Persistent Changes are immediately and permanently written to the disk. C Nonpersistent Changes to this disk are discarded when you power off or revert to the snapshot.
		Finish Cancel

Install Backup Server

After new VM is created, power on the VM and start installing the Vinchin backup server iSO file.

Right click the new created VM and click [Open Console].



Click "CD/DVD drive 1" and choose "Connect to ISO image on local disk..."



Choose the valid iSO file which you've downloaded from Vinchin website, e.g. choose "vinchin-server_enterprise-4.0.4003.iso" and click [Open].

🕜 Open			×
← → × ↑ 🕹 > This	PC > Downloads	✓ O Search Downloads	; , р
Organize 🔻 New folder			- 🔳 🕐
A Quick access	Name	Date modified T	Гуре
	💿 vinchin-node_enterprise-4.0.4003.iso	10/12/2017 3:33 PM	Disc Image File
Desktop	vinchin-server_enterprise-4.0.4003.iso	10/12/2017 3:33 PM	Disc Image File
File <u>n</u> ar	ne: vinchin-server_enterprise-4.0.4003.iso	✓ ISO Image files (*	.iso) V

After iSO is mounted, click **[VM]** \rightarrow **[Guest]** \rightarrow **[Send Ctrl+Alt+Del**"] as below, then reboot the VM.



After rebooting, click **[Open Console]**, then you are entering the installation page. Choose **"Install CentOS 7"** and press **[Enter]** button on the keyboard. Then a few seconds later, you will be entering the **"INSTALLATION SUMMARY"** page.

CentOS 7
Install CentOS 7 Boot from local drive
Pross Tab for full configuration ontions on nonu itoms
Tress fue for fair configuration operans on nona reas.

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



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



INSTALLATION DESTINATION	CENTOS LINUX 7 INSTALLATION 🖽 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 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" and Click [Configure...] on the right bottom.



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.

IETWORK & HOS				CENTOS LIN	UX 7 INSTALLATION Help!
		Editing e	ens160		
nnection name: e	ns160				
General I	Ethernet	802.1X Security	DCB	IPv4 Settings	IPv6 Settings
Method: Manual					•
Addresses					
Address		Netmask	G	ateway	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 ad	Idressing for this	s connection to complete	9		
					Routes

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 LINUX 7 INSTALLATIO	NC !
Ethernet (ens160) VMware VMXNET3 Ethernet Controller	Ethernet (ens160) Connected Hardware Address 00:50:56:87:64:99 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	Configure Apply Current host name: localhost.localdom	ain

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



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



After VM rebooted, you can login to the web console of Vinchin backup server. Enter the IP address of Vinchin backup server to access the web login page. (Google Chrome browser is recommended.)

Web login username: admin Password: 123456 Backup server OS username: root Password: 12345678

vinchin	
Vinchin Backup & Recovery	
La Username	
Password	
■ Remember password Download Backup Plug-in Login ④	
Forgot password? You can contact the administrator to reset you password	
Copyright © 2017 Vinchin build: 4.0.4345	

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**".

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.

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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