

vinchin

VINCHIN BACKUP & RECOVERY V4.0

Quick Installation Guide

Install on RHV/Ovirt Virtual Server

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成都云祺科技有限公司
Chengdu Vinchin Technology Co.,Ltd.



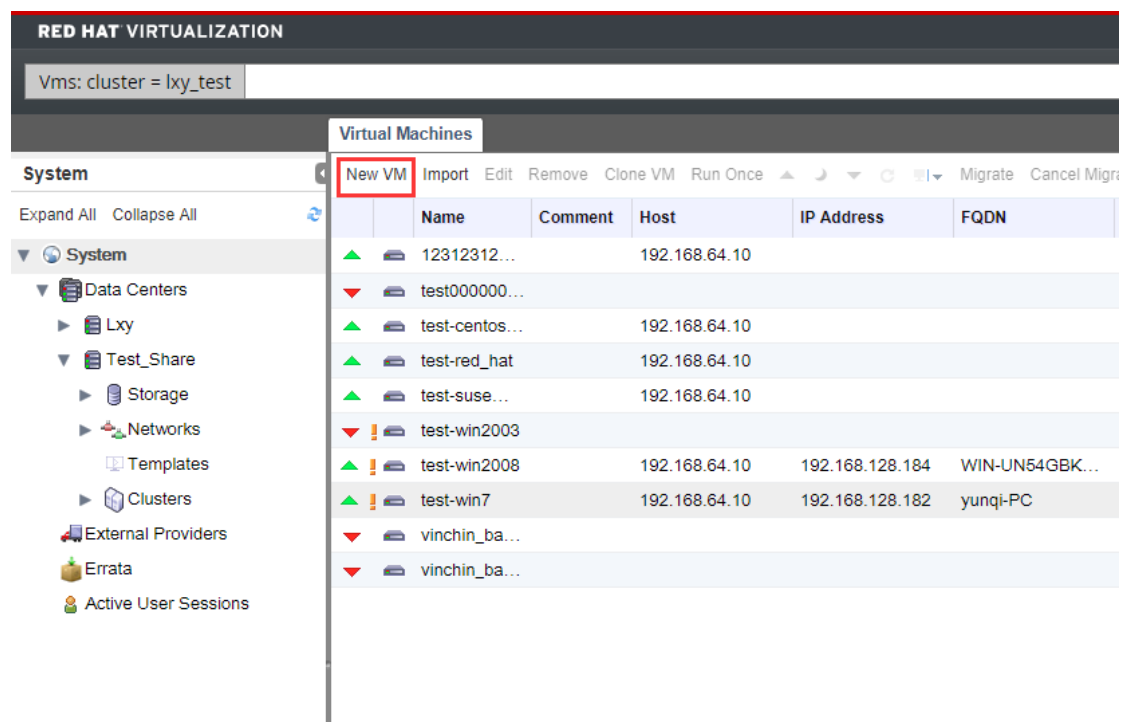
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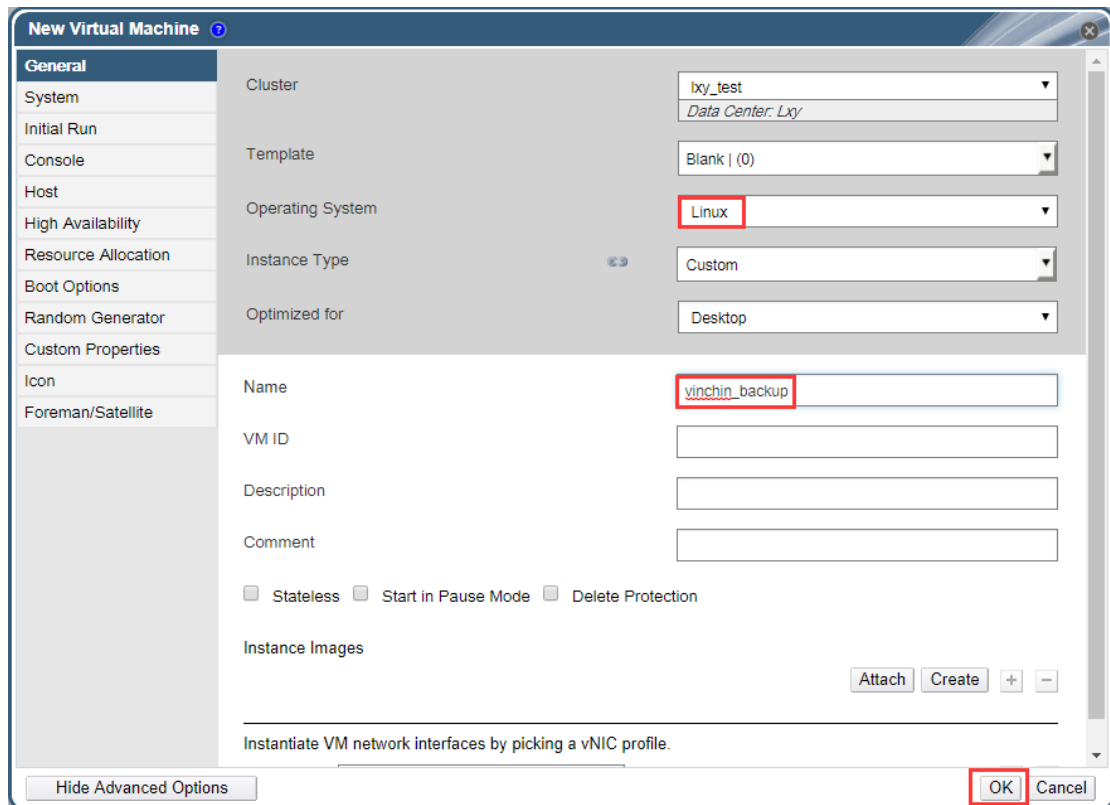
Create New Virtual Machine

To install the Vinchin backup server on a RedHat RHV/Ovirt host, first you need to connect the RedHat Virtualization 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:

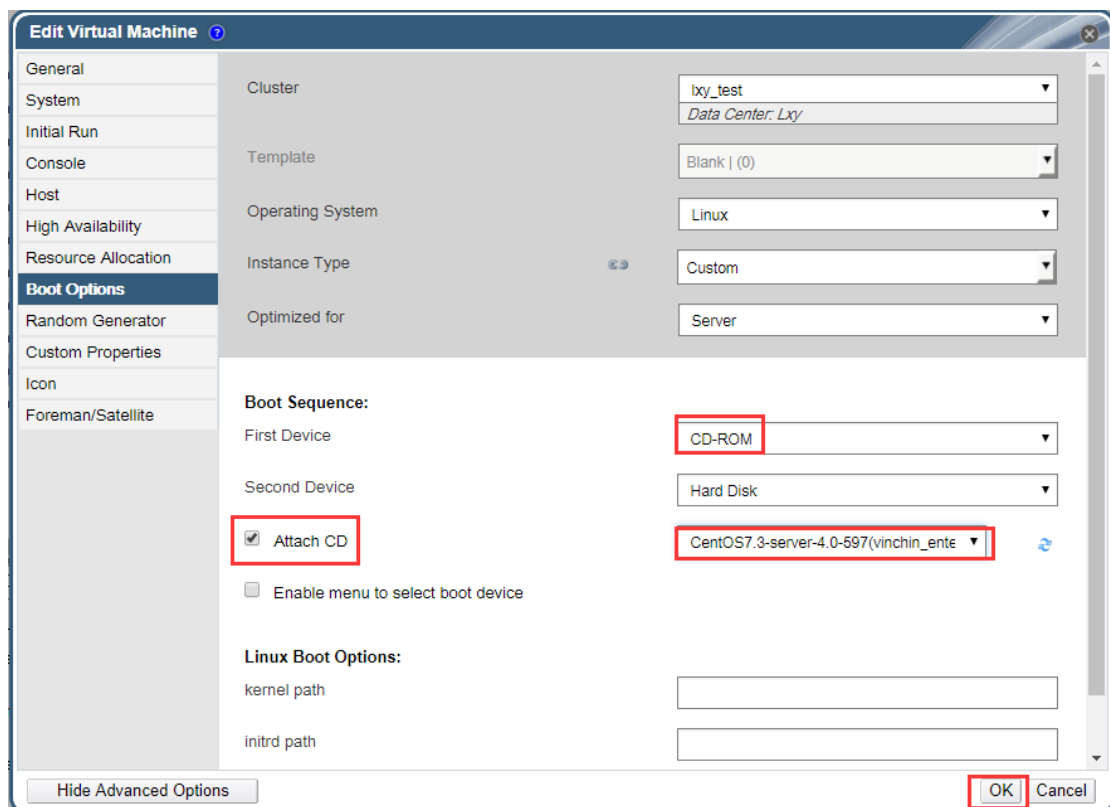
Click **“System”**, then click **“New VM”** to create a new virtual machine.



In the **“General”** page, choose **“Linux”** in the **“Operation System”** line, choose **“Desktop”** in the **“Optimized for”** line, type a name for the new VM in the **“Name”** line. Then Click **[OK]** to the next page.



Click “**Boot Options**” to enter boot options page, under the “**Boot Sequence**” options choose “**CD-ROM**” in the “**First Device**” line, enable “**Attach CD**” and choose VINCHIN Backup & Recovery ISO file from the ISO library. Then click [OK] to the next page.



Set two storage disks for the VM, one as system disk, the other as backup repository. System disk capacity 100+ GB is recommended, backup repository capacity can be set according to your actual demands.

Alias	Virtual Size	Attached To	Interface	Alignment	Status	Type	Description
vinchin_backup_...	100 GB	vinchin_backup	IDE	Unknown	OK	Image	
vinchin_backup_...	800 GB	vinchin_backup	IDE	Unknown	OK	Image	

Add at least one network interface for the new VM.

Name	Plugged	Network Name	Profile Name	QoS Name	Rx Rate (Mbps)	Tx Rate (Mbps)	Total Rx (Bytes)	Total Tx (Bytes)	Drops (Pkts)
nic1	<input checked="" type="checkbox"/>	ovirtmgmt	ovirtmgmt		< 1	< 1	50,091,922,298	10,441,538,679	0

Install Backup Server

After new VM created, power on the VM and start installing the VINCHIN Backup & Recovery iSO file.

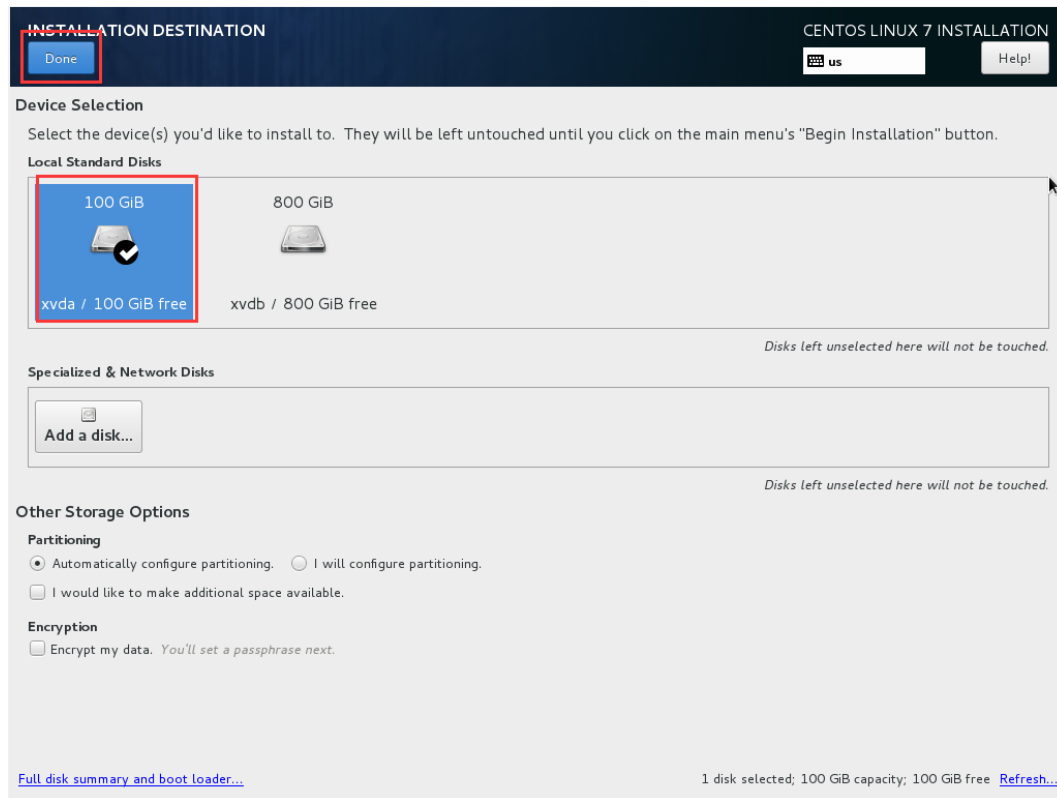
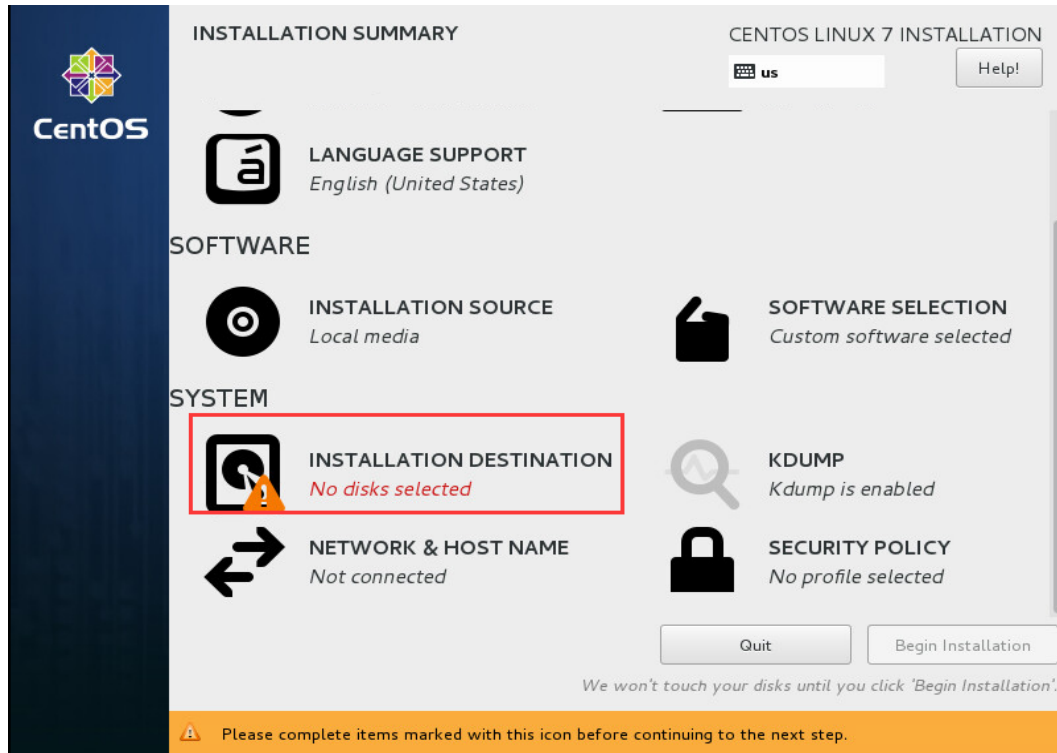
Choose “Install CentOS 7” and press [Enter] button on the keyboard. Then a few seconds later, you will be entering the “INSTALLATION SUMMARY” page.



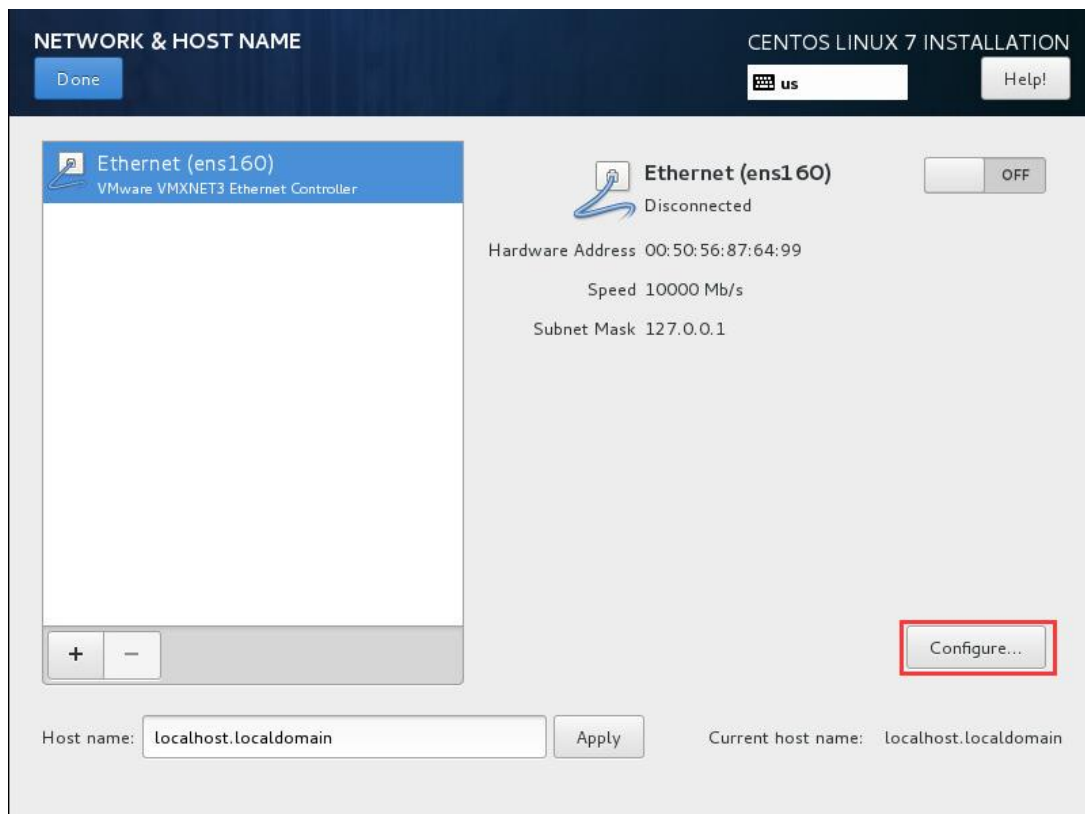
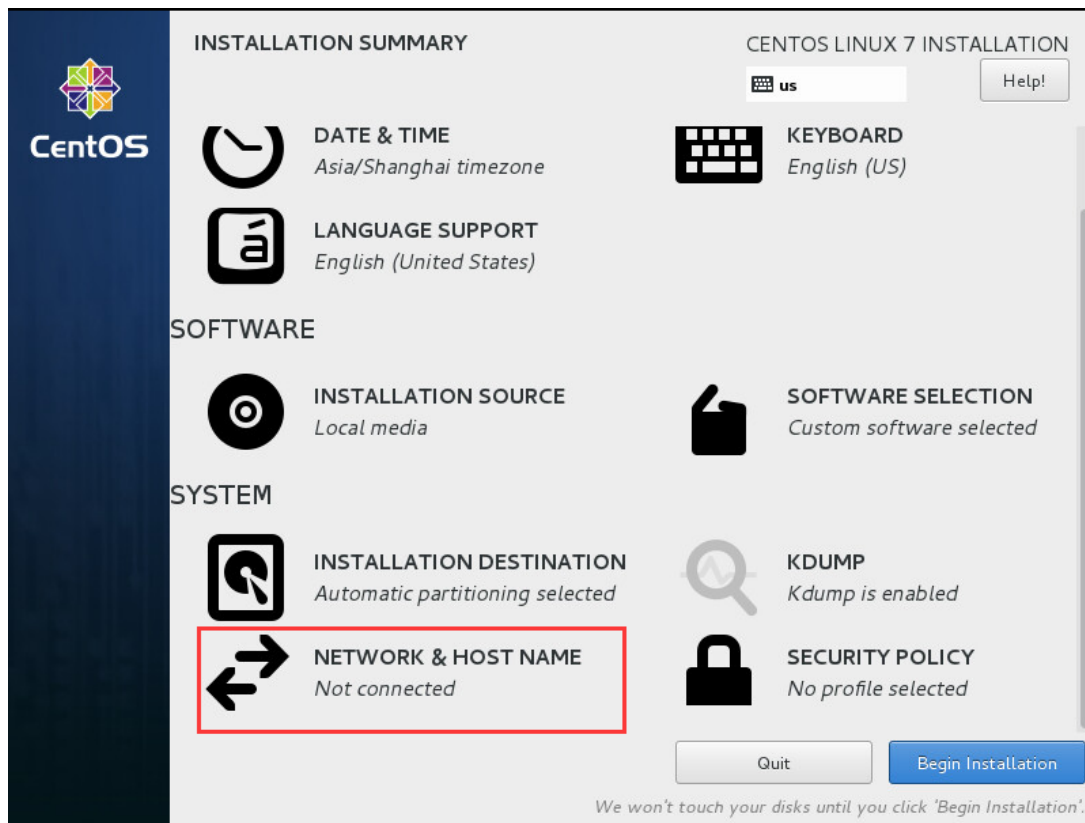
Click "DATE & TIME" to set up time for your Vinchin backup server.



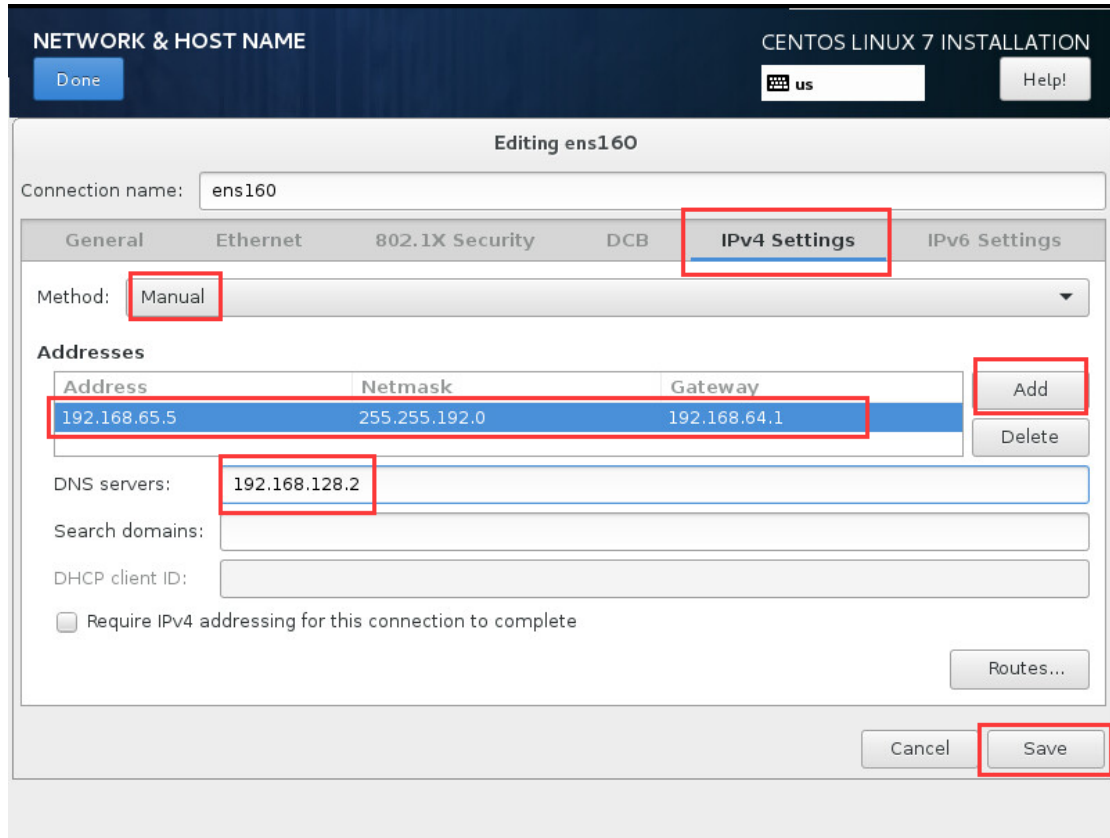
Click the "INSTALLATION DESTINATION" and choose the 100GB hard disk as system disk and click [Done].



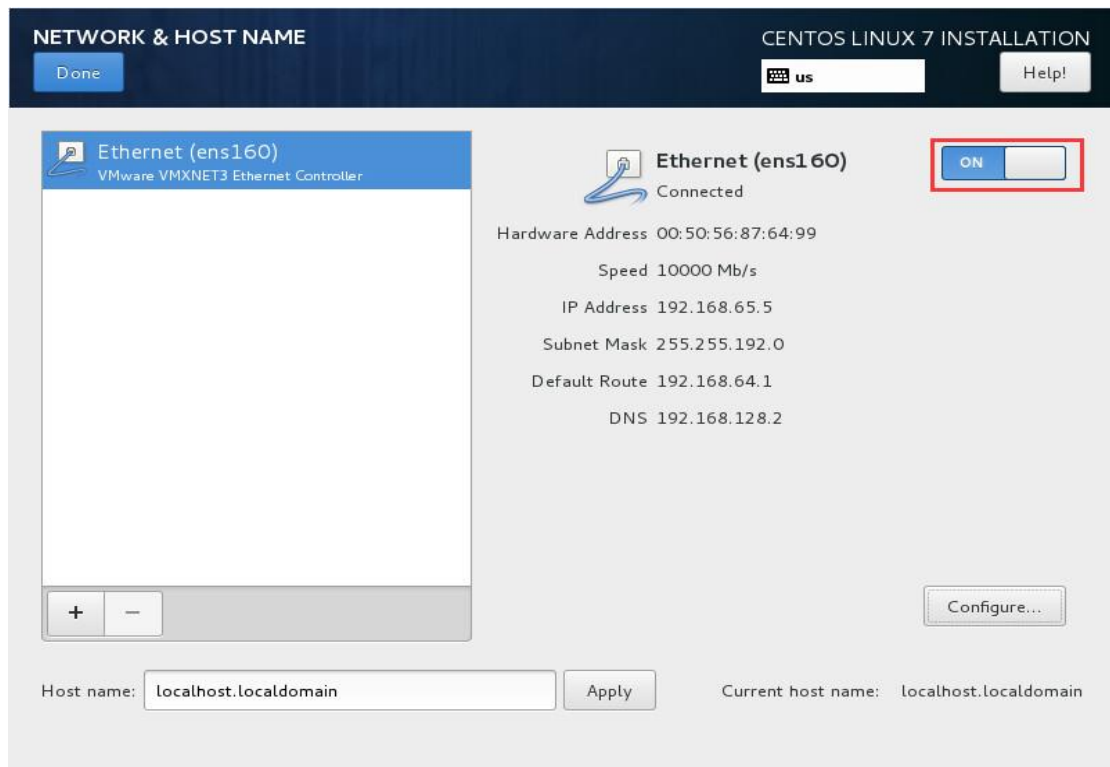
Click "NETWORK&HOST NAME" , then Click **【Configure...】** .



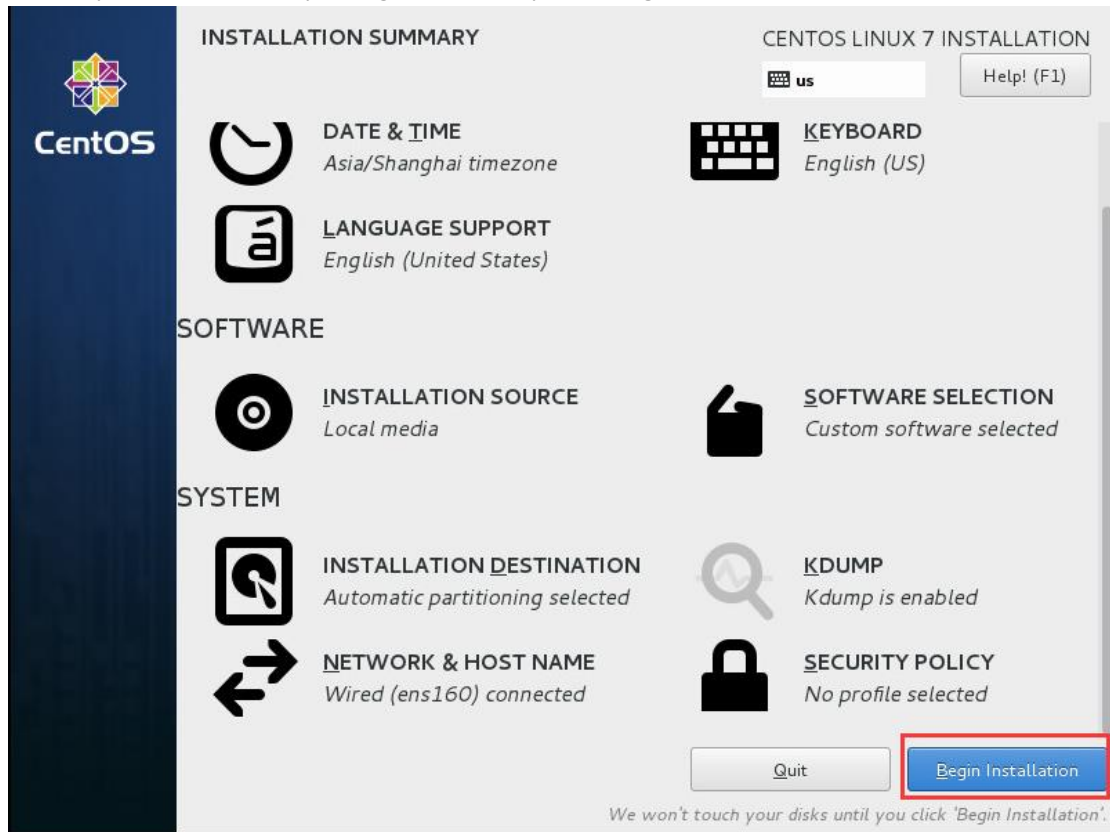
Click “IPv4 Settings” → Choose “Manual” in the “Method” selection → Click [Add] to enter your network IP address information, example as below. Then click [Save] to save your configuration data.



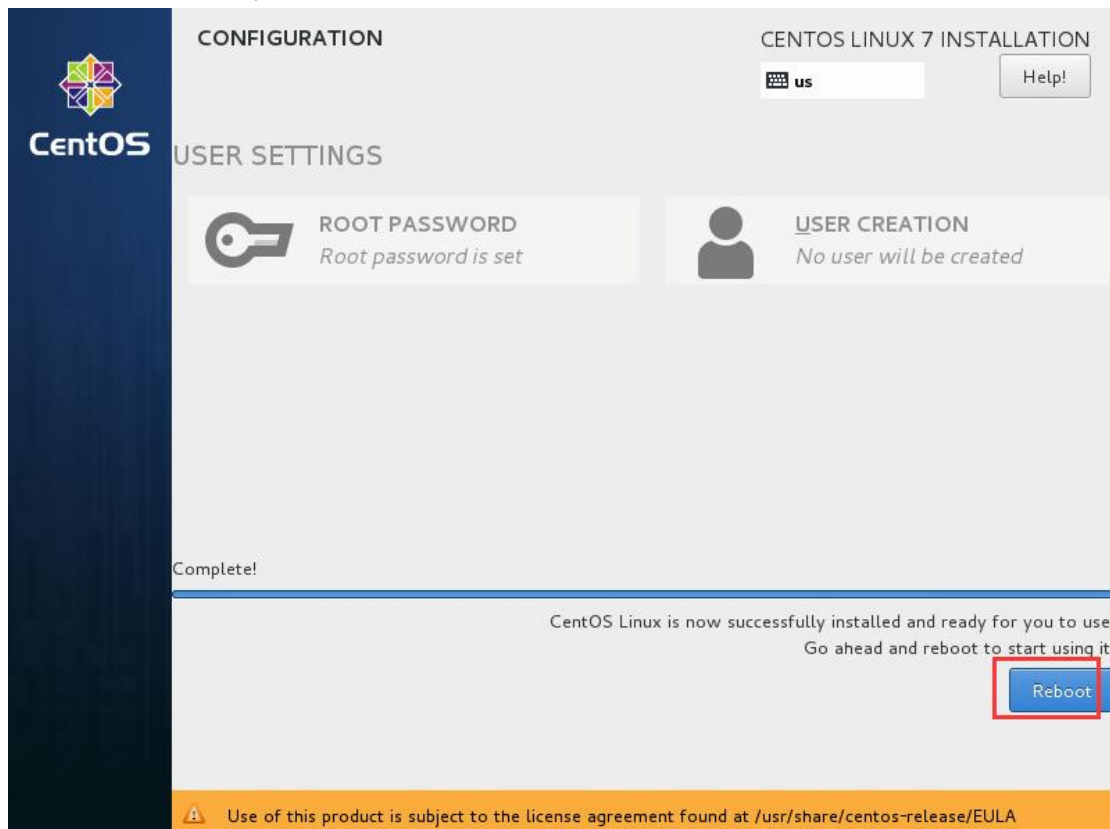
Click the red marked button in below to enable the Ethernet connection, you will see the configured network information. Click **[Done]** on the left top to return back to home page.



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 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

Backup server OS username: root

Password: 12345678

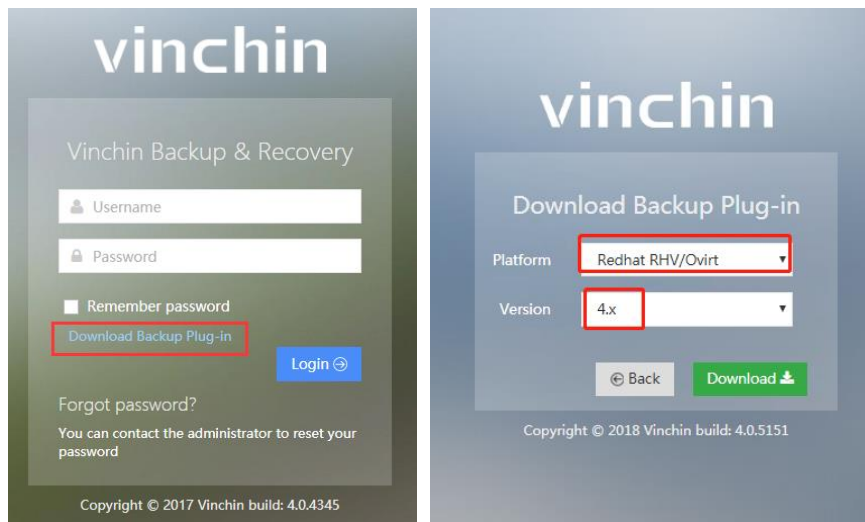


IMPORTANT:

Before backing up VMs under RHV/Ovirt environments, you need to install a “Backup Plug-in” 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**] → select RHV/Ovirt and corresponding version, then click [**Download**]. Copy the downloaded plugin to your RHV/Ovirt host root directory for installation.



Installation/Uninstallation of **RHV/Ovirt** 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  vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64.tar.gz
[root@rhev3 ~]# 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@rhev3 ~]# cd vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64
[root@rhev3 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@rhev3 vinchin-kvm-backup-patch-4.0.4145-RHEL.7-x86_64]# ./kvm_backup_patch_install
check the installation environment ...done
```

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>
  <install_path>/opt/vinchin</install_path>
  <server_ip>0.0.0.0</server_ip>
  <server_port>22710</server_port>
  <database_ip>0.0.0.0</database_ip>
  <database_port>3306</database_port>
  <database_name>vinchin_db</database_name>
  <database_user>vinchin</database_user>
  <database_passwd>yunqi123456</database_passwd>
  <storage_prefix>/backup_storage/</storage_prefix>
  <control_message_timeout>900</control_message_timeout>
  <server_key_name>/etc/vinchin/pt_server.key</server_key_name>
  <client_key_name>/etc/vinchin/pt_client.key</client_key_name>
  <certificate_pem>/etc/vinchin/certificate.pem</certificate_pem>
  <private_key_pem>/etc/vinchin/private_key.pem</private_key_pem>
  <log_dir>/var/log/vinchin</log_dir>
  <config_dir>/etc/vinchin</config_dir>
  <pid_dir>/var/run/vinchin</pid_dir>
</common-server-conf>
```

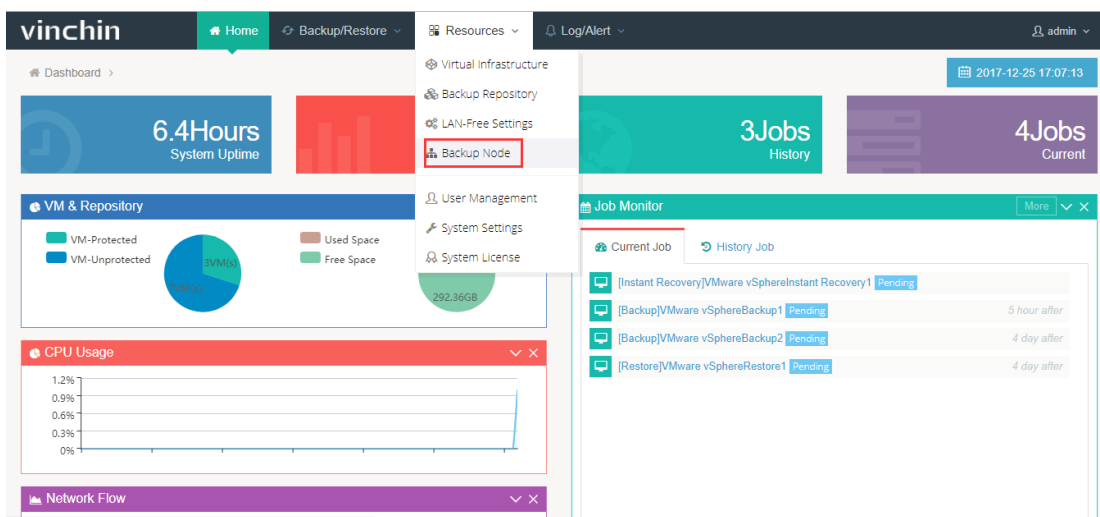
Enclose: vi editor often-used command

- 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] → [Backup Node].



vinchin Home Backup/Restore Resources Log/Alert admin

Backup Node

Node List

Edit Delete

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

No.	Node Name	IP Address	Add Time	Remote Deploy	Deploy Status	Node Status
1	localhost.localdomain	192.168.101.42	2017-12-25 10:27:59	Unsupported	Deployed	Normal

Note: Please download the backup node installation package from the login page, follow the corresponding user guide to complete the installation. After install success, new backup node information will auto-add to the Node List. If you need support during the installation, please contact our technical support.



Contact Information

Head Office

F14, No. 19, 3rd Tianfu Street,
Hi-Tech Zone, Chengdu, China.
P.C. 610041

Sales

Tel: +86-28-85530156
Email: sales@vinchin.com

Support

Tel: +86-400-9955-698
Email: support@vinchin.com

Website

www.vinchin.com/en