

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

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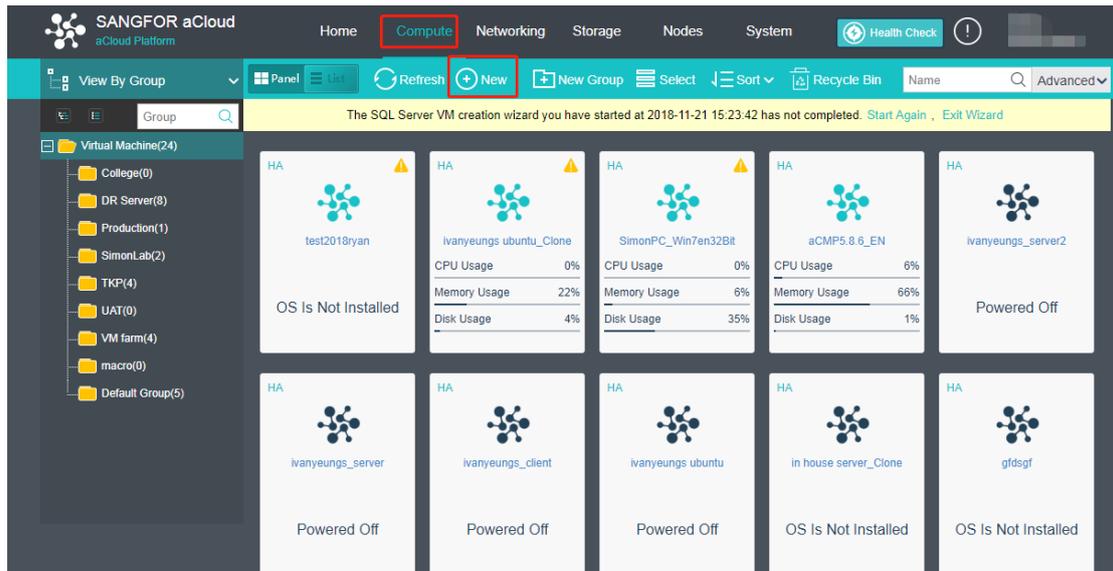
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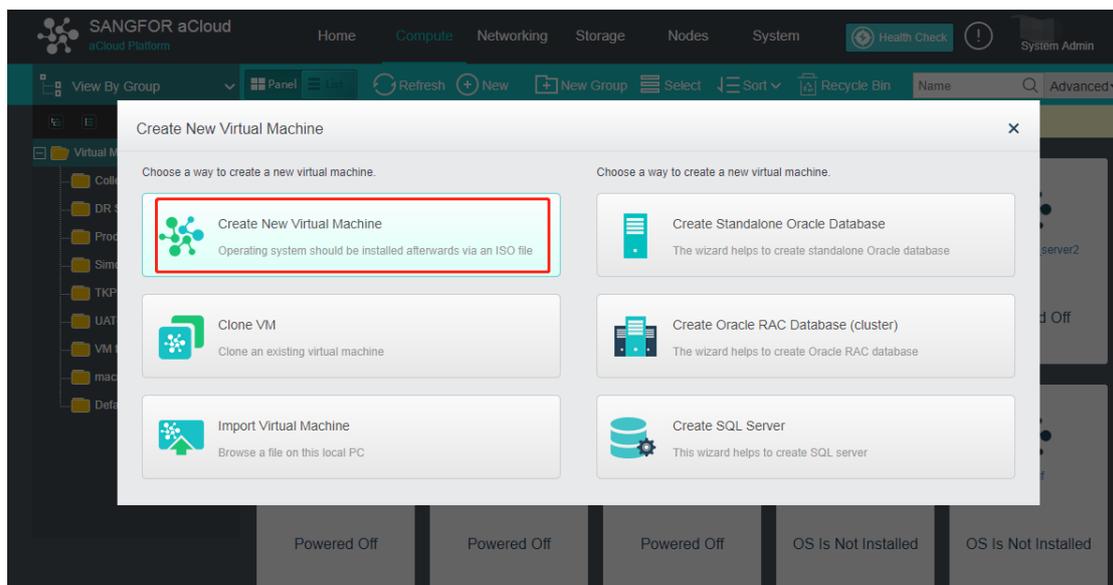
Create New Virtual Machine

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:

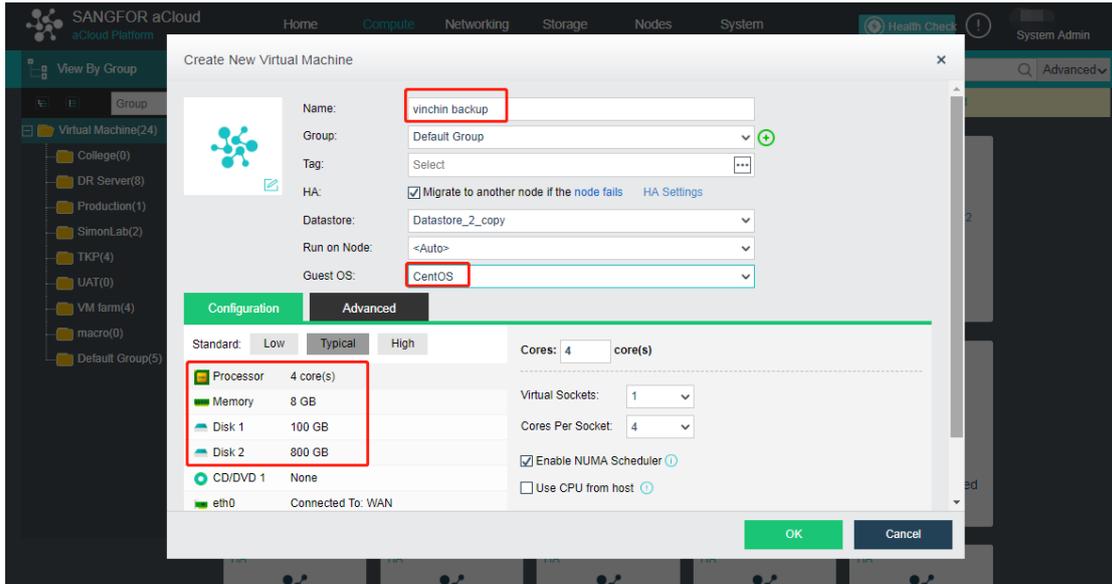
Click **“Compute”**, then click **“New”** to create a new virtual machine.



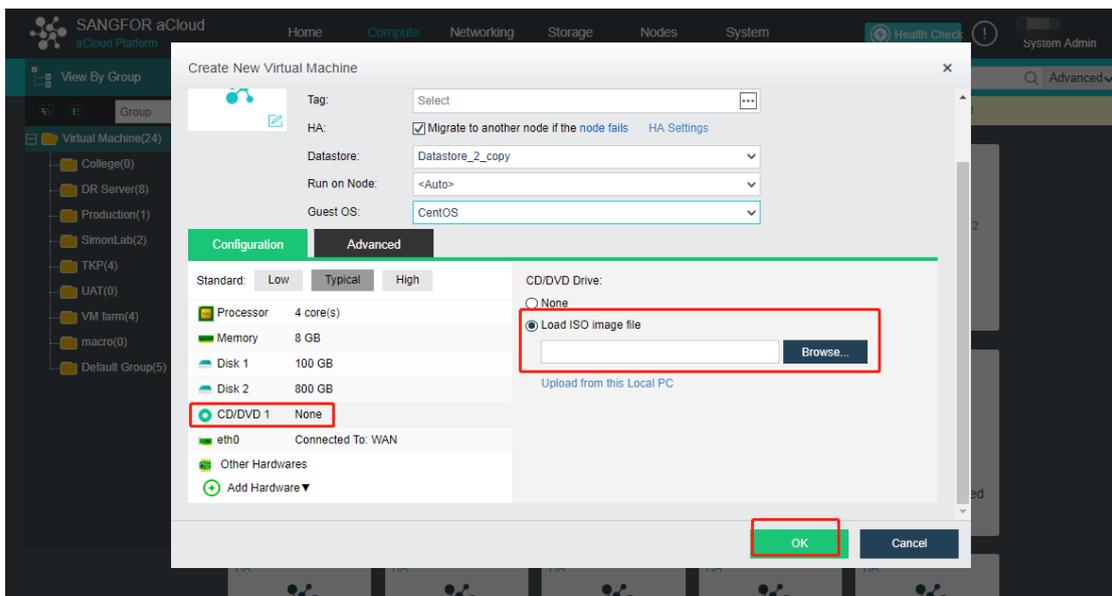
Click **“Create New Virtual Machine”**



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).

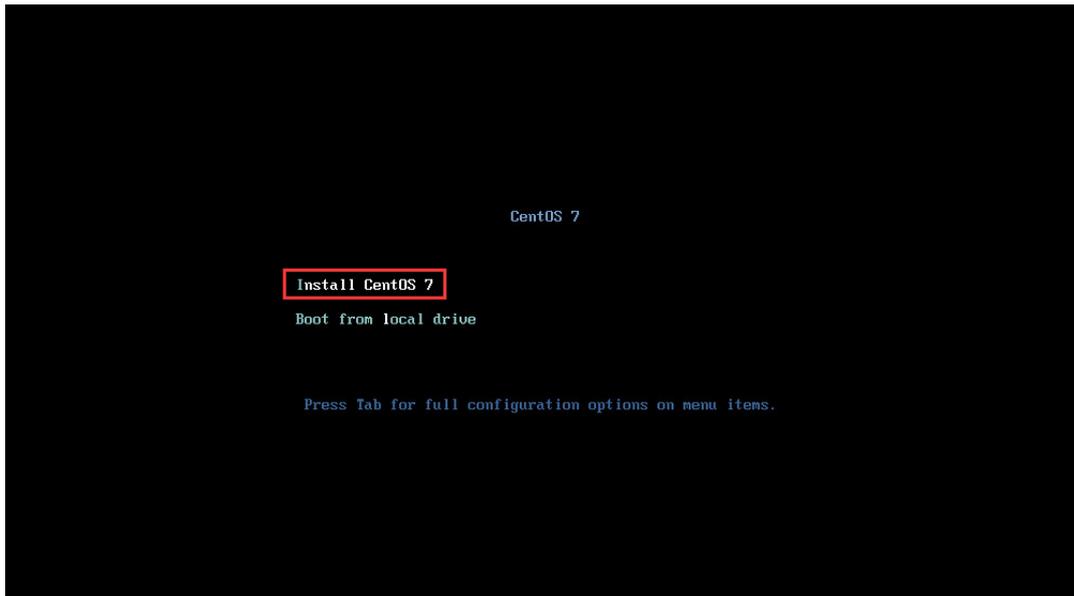


Then click “CD/DVD 1” to load the vinchin ISO image file, then click “OK”.

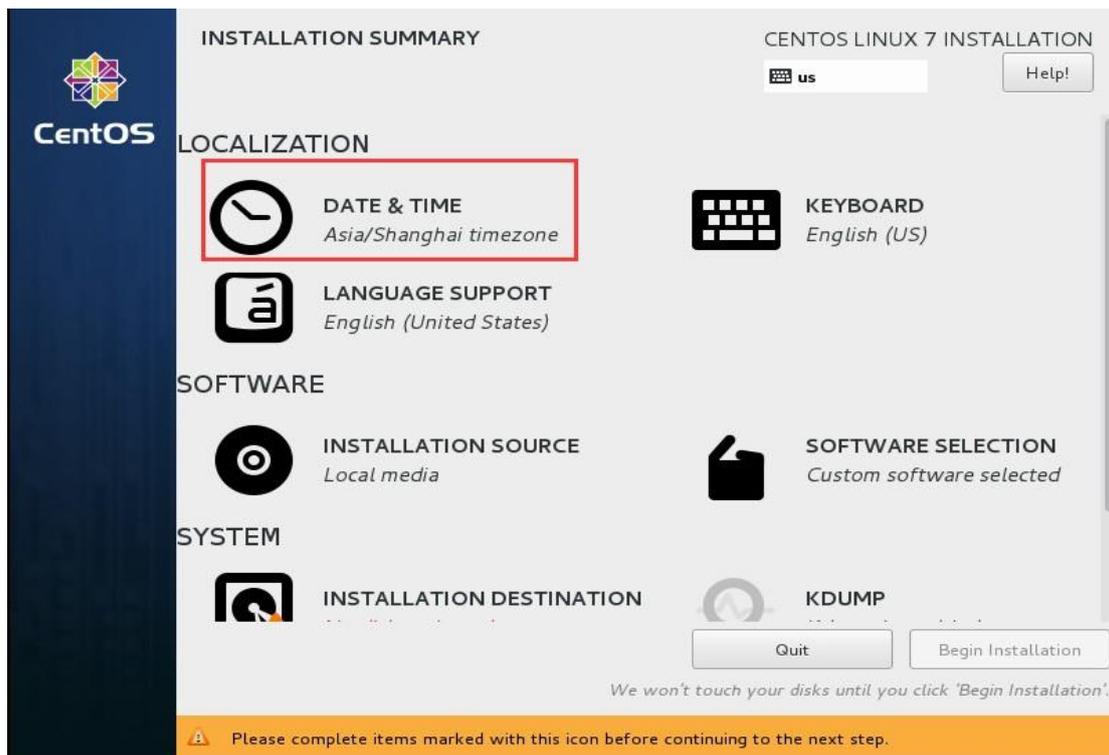


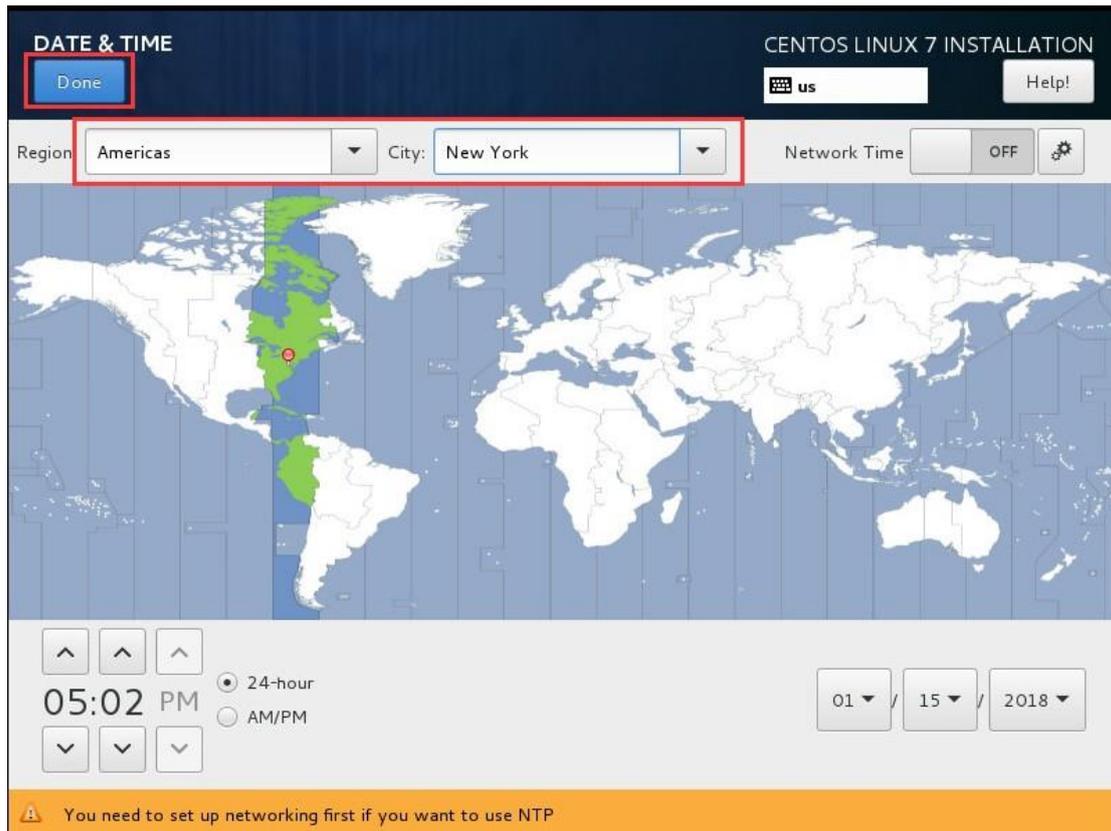
Install Backup Server

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.

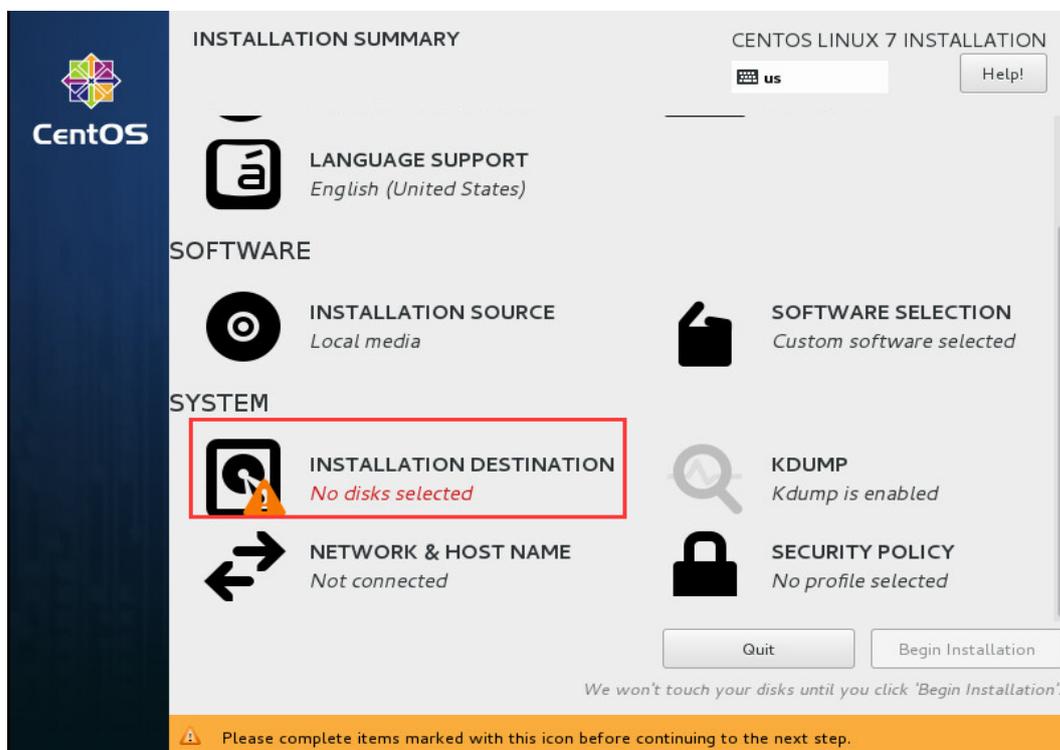


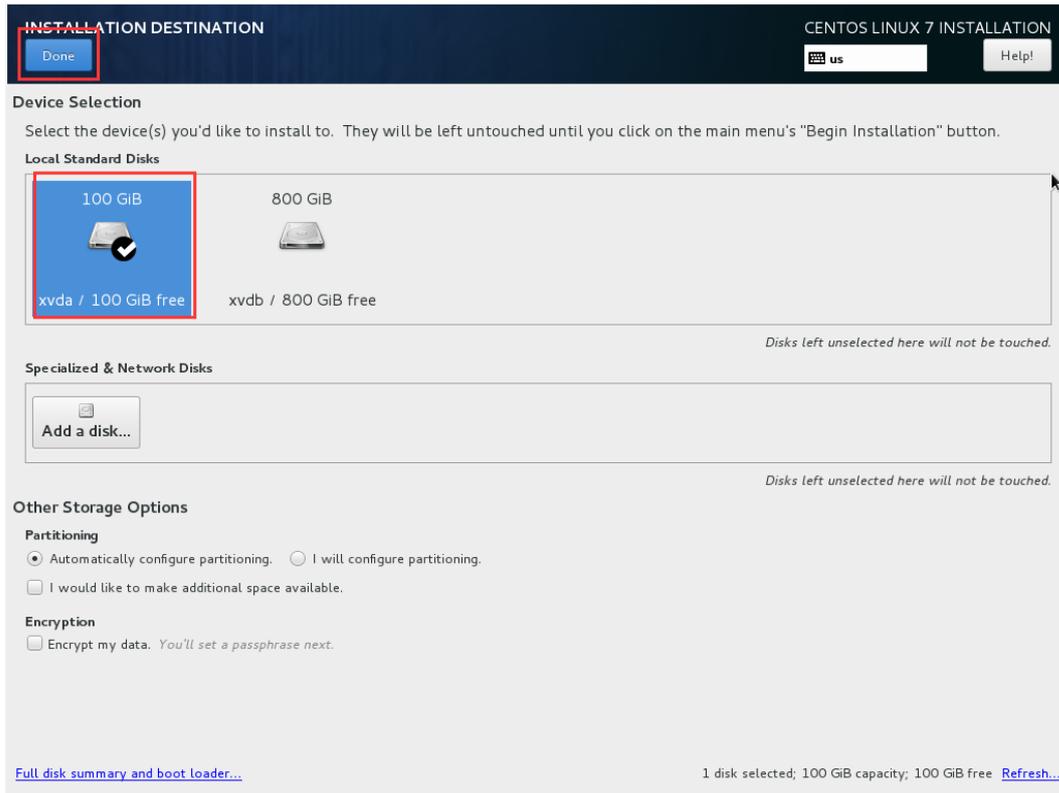
Click "DATE & TIME" to set up time for your Vinchin backup server.





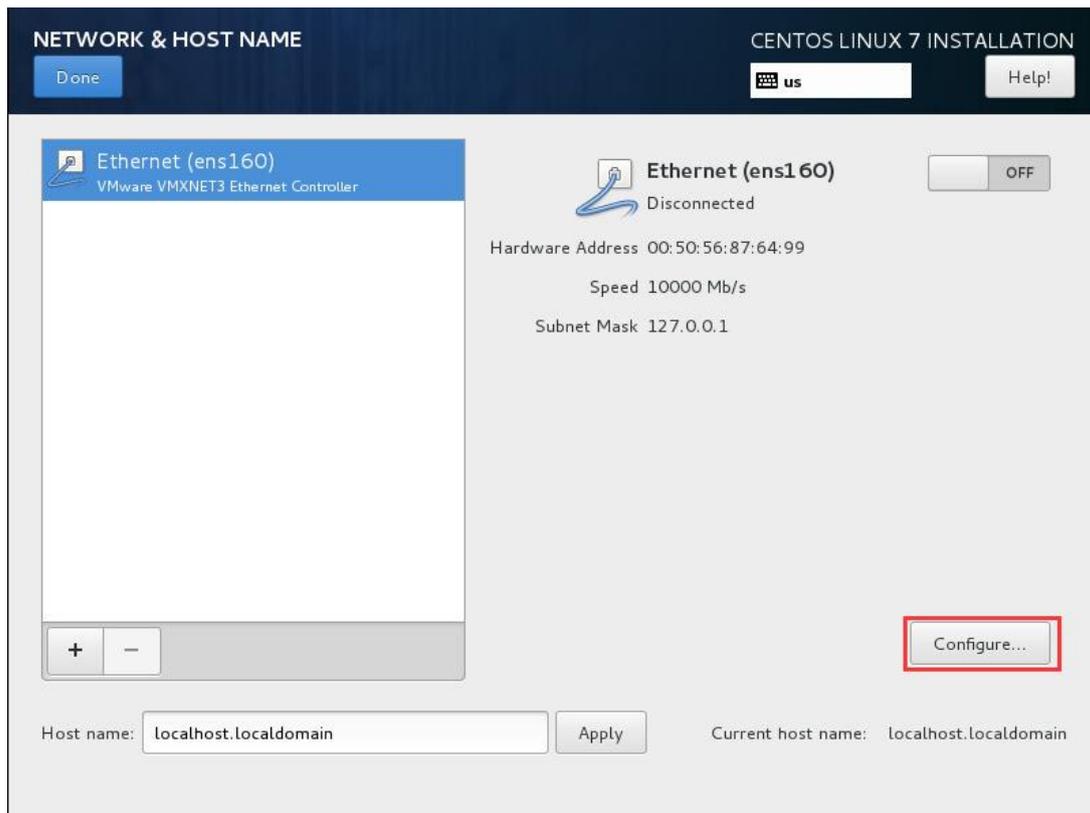
Click the “INSTALLATION DESTINATION” and choose the 100GB hard disk as system disk and click [Done].



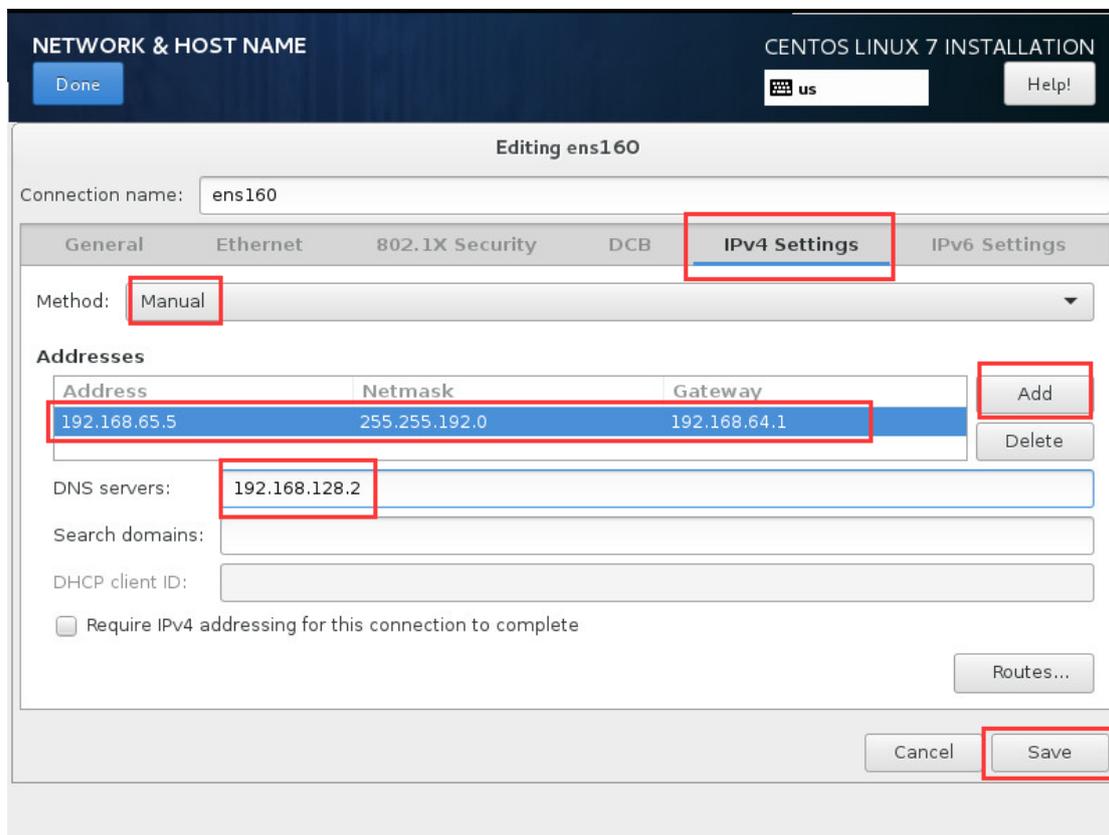


Click "NETWORK&HOST NAME", then Click **【Configure...】**.

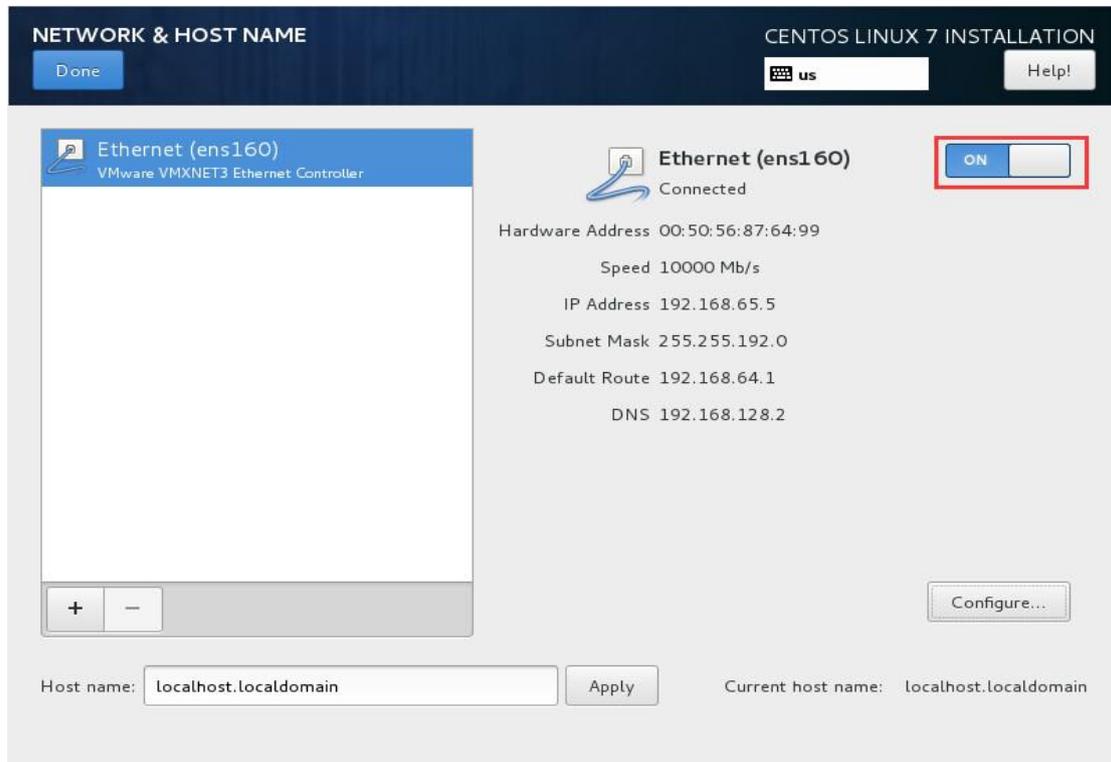




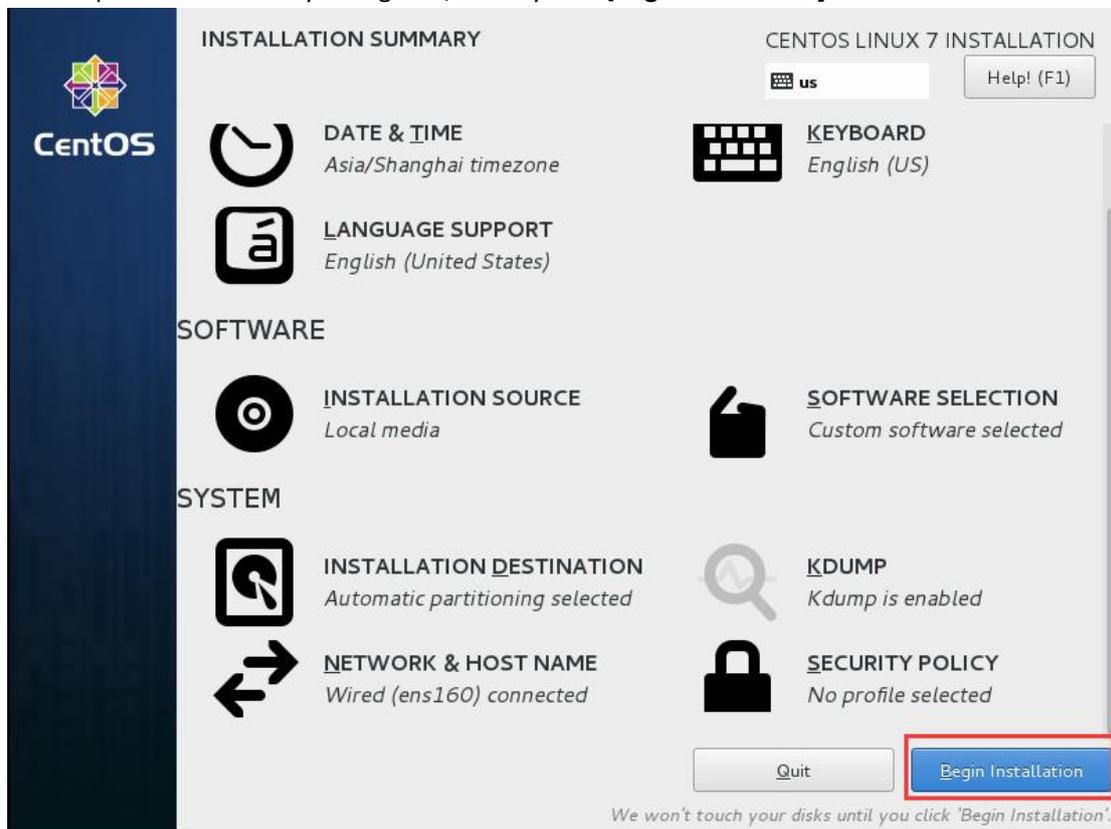
Click “IPv4 Settings” → Choose “Manual” in the “Method” selection → Click [Add] to enter your network IP address information, example as below. Then click [Save] to save your configuration data.



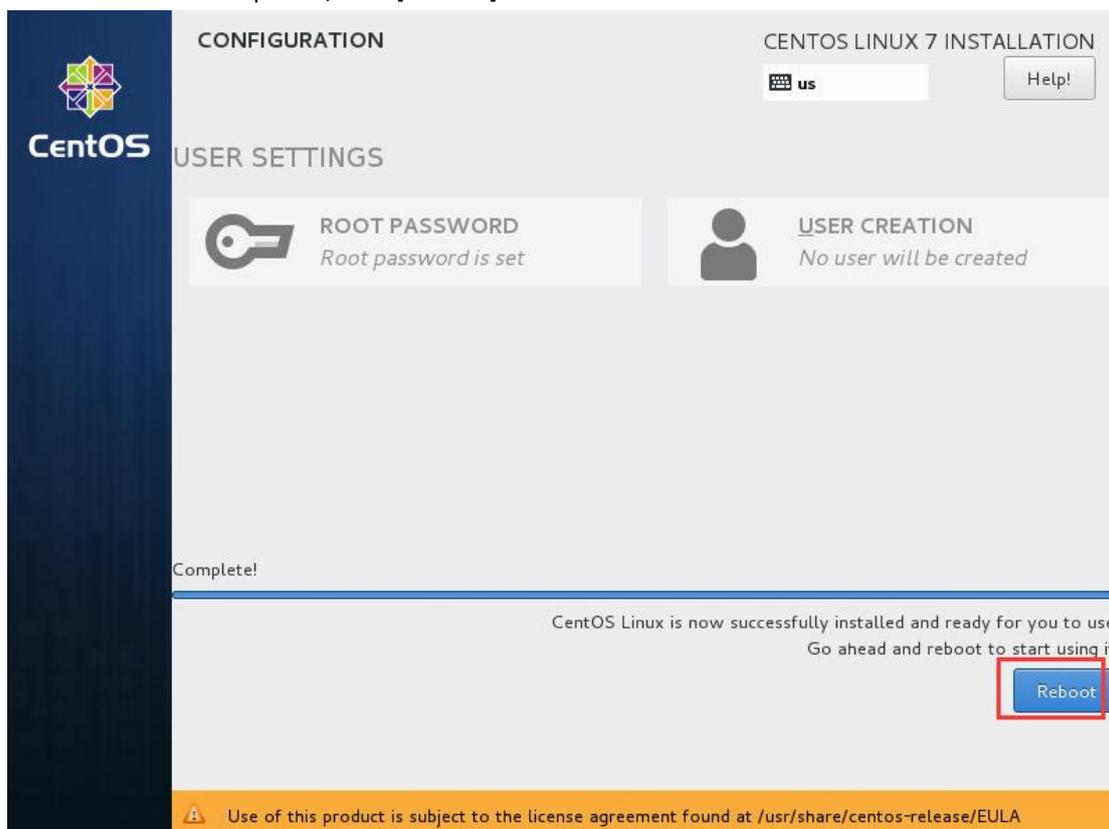
Click the red marked button in below to enable the Ethernet connection, you will see the configured network information. Click **[Done]** on the left top to return back to home page.



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



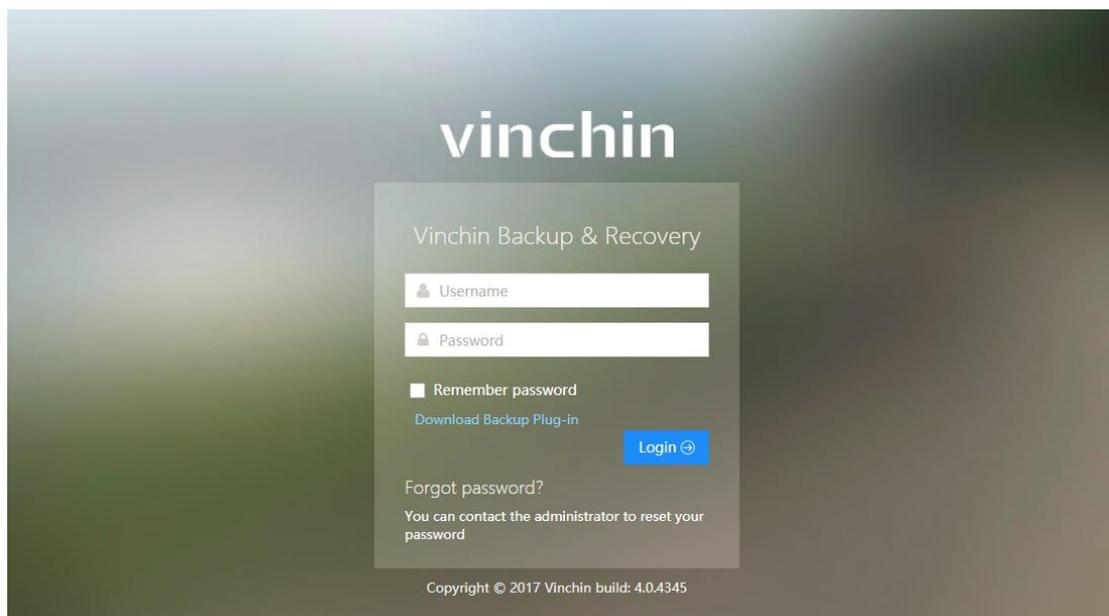
After installation completed, click **[Reboot]** to reboot the VM.



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

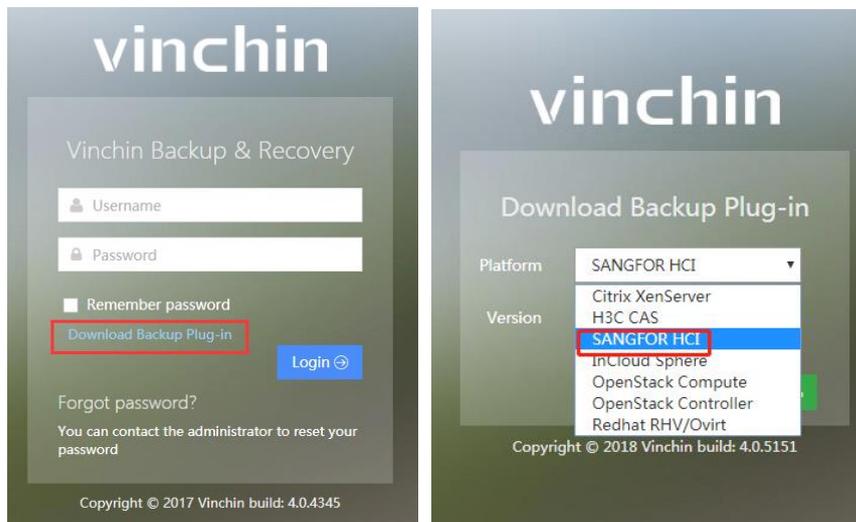


IMPORTANT:

Before backing up VMs under SANGFOR HCI 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 SANGFOR HCI and corresponding version, then click [Download]. Copy the downloaded plugin to your SANGFOR HCI host root directory for installation.



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 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.xxx.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

Dashboard > | 2017-12-25 17:07:13

6.4Hours System Uptime | 3Jobs History | 4Jobs Current

VM & Repository

- VM-Protected: 3VMs
- VM-Unprotected: 1VMs
- Used Space: 292.36GB
- Free Space: 292.36GB

CPU Usage: 1.2%, 0.9%, 0.6%, 0.3%, 0%

Network Flow

Resources

- Virtual Infrastructure
- Backup Repository
- LAN-Free Settings
- Backup Node
- User Management
- System Settings
- System License

Job Monitor

- Current Job
- History Job
- [Instant Recovery]VMware vSphereInstant Recovery1 Pending
- [Backup]VMware vSphereBackup1 Pending 5 hour after
- [Backup]VMware vSphereBackup2 Pending 4 day after
- [Restore]VMware vSphereRestore1 Pending 4 day after

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

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