vinchin

VINCHIN BACKUP & RECOVERY V4.0

Quick Installation Guide

Install on Physical Server | 2018/09

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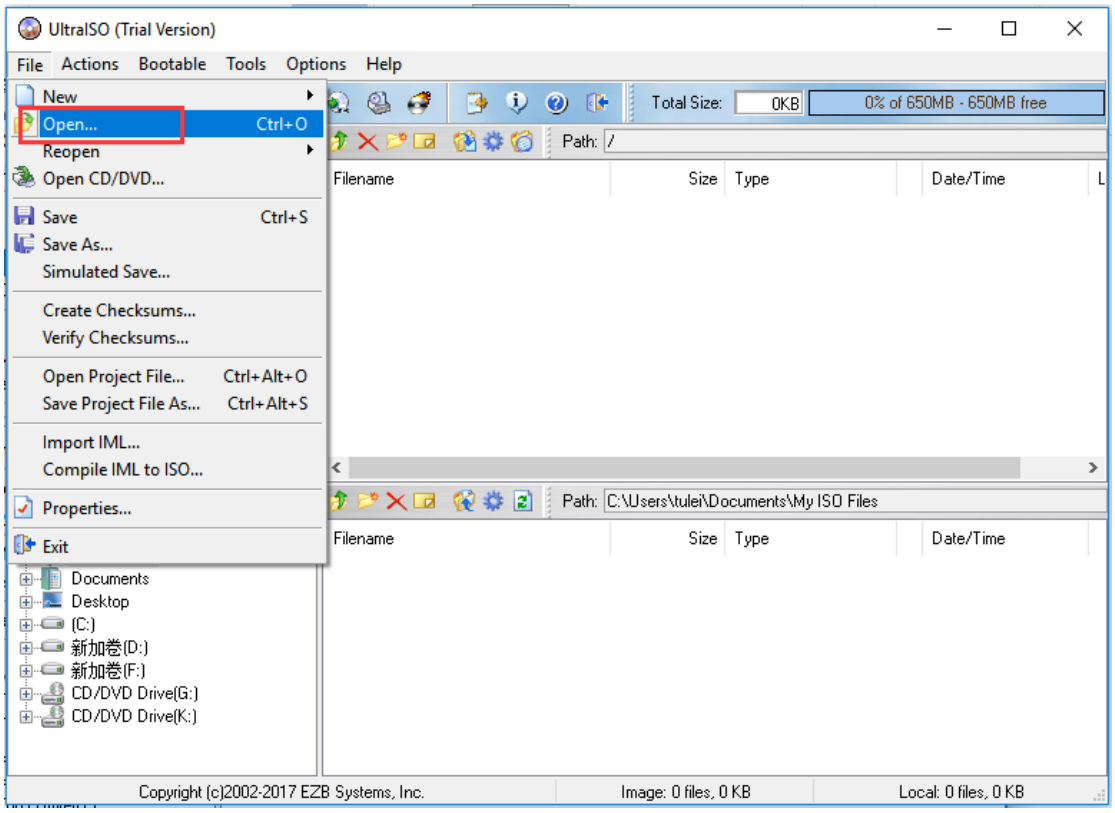
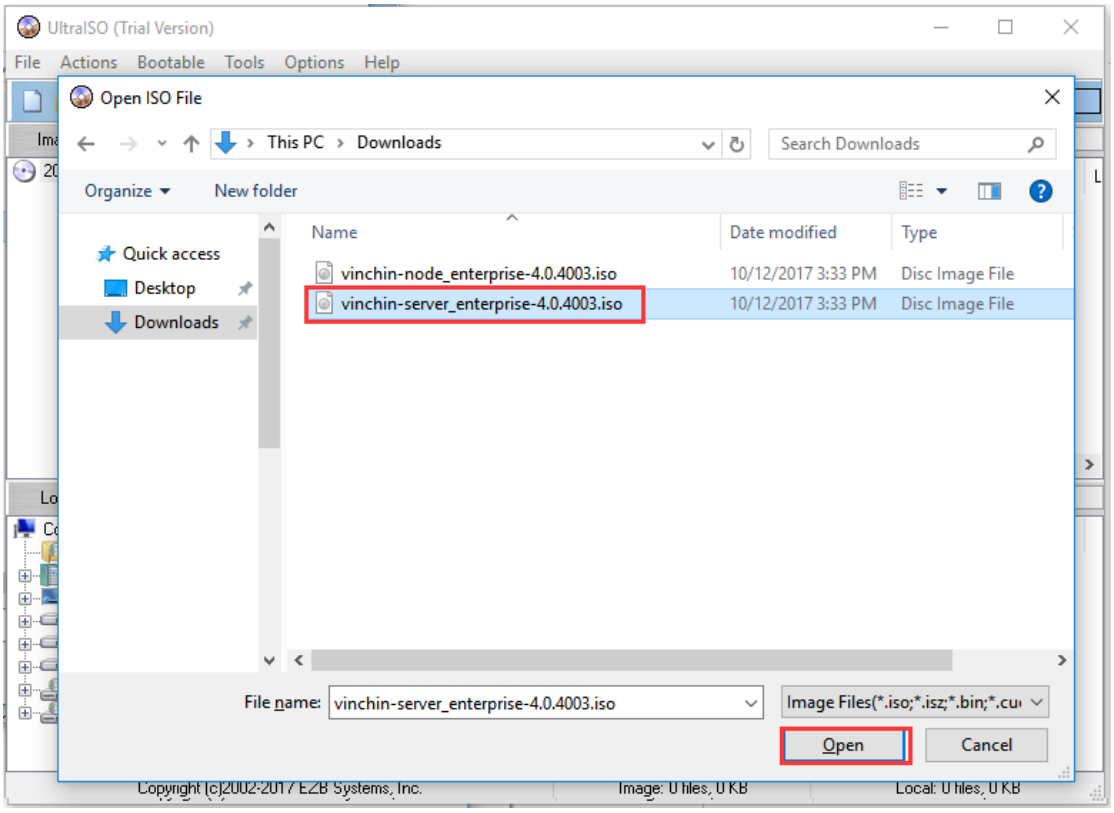
Record iSO File

Installing Vinchin backup server can be done via USB disk or CD. In this installation guide we use UltraISO record tool to record the ISO file.

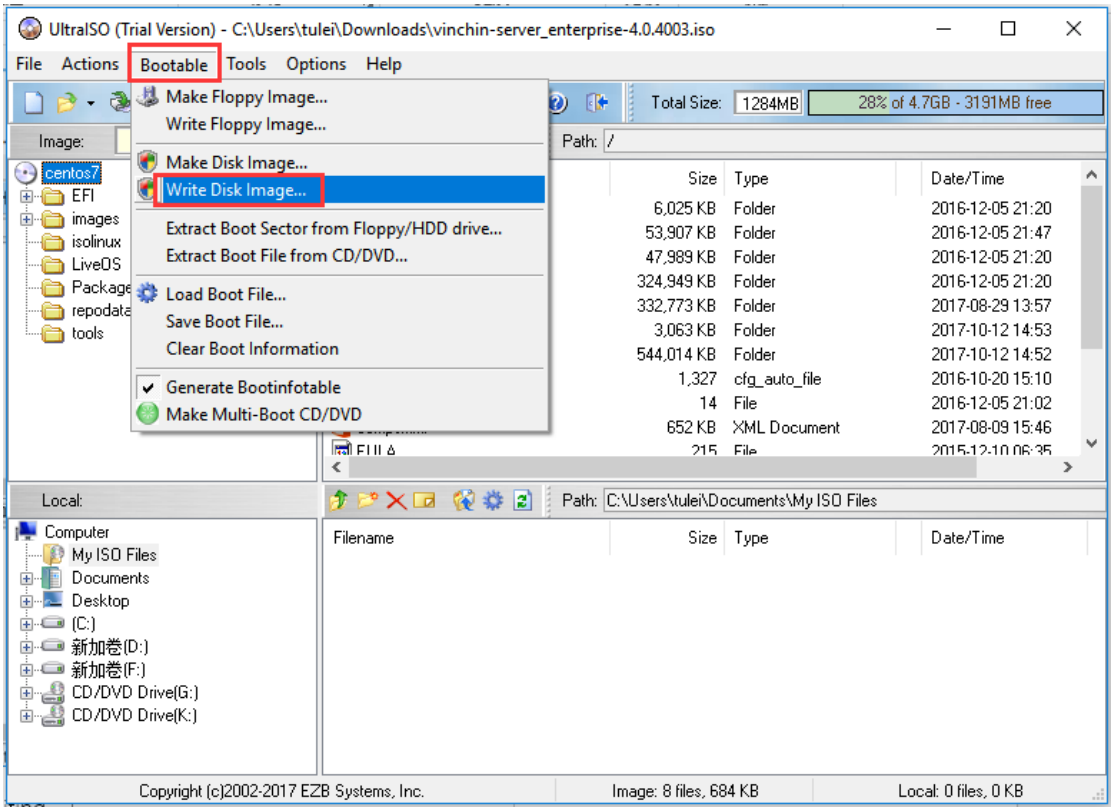
Record to USB Disk Guide

Record the ISO file to USB disk will format the USB disk, please use a non-data USB disk for recording. Connect the USB disk with PC, open the record tool UltraISO. Click [**File**] → [**Open…**]. Choose Vinchin backup server iSO file and click [**Open**].

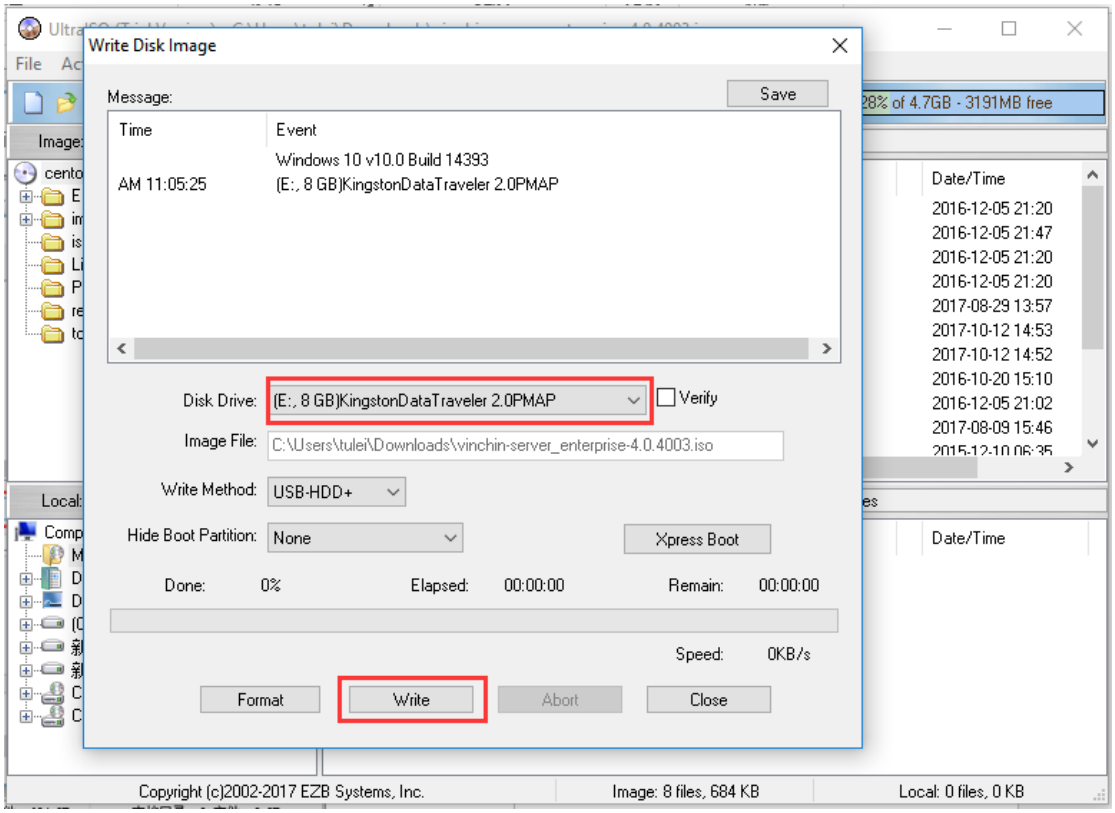




Click [**Bootable**] → [**Write Disk Image…**]



Choose the right USB disk and click [**Write**] to start writing.

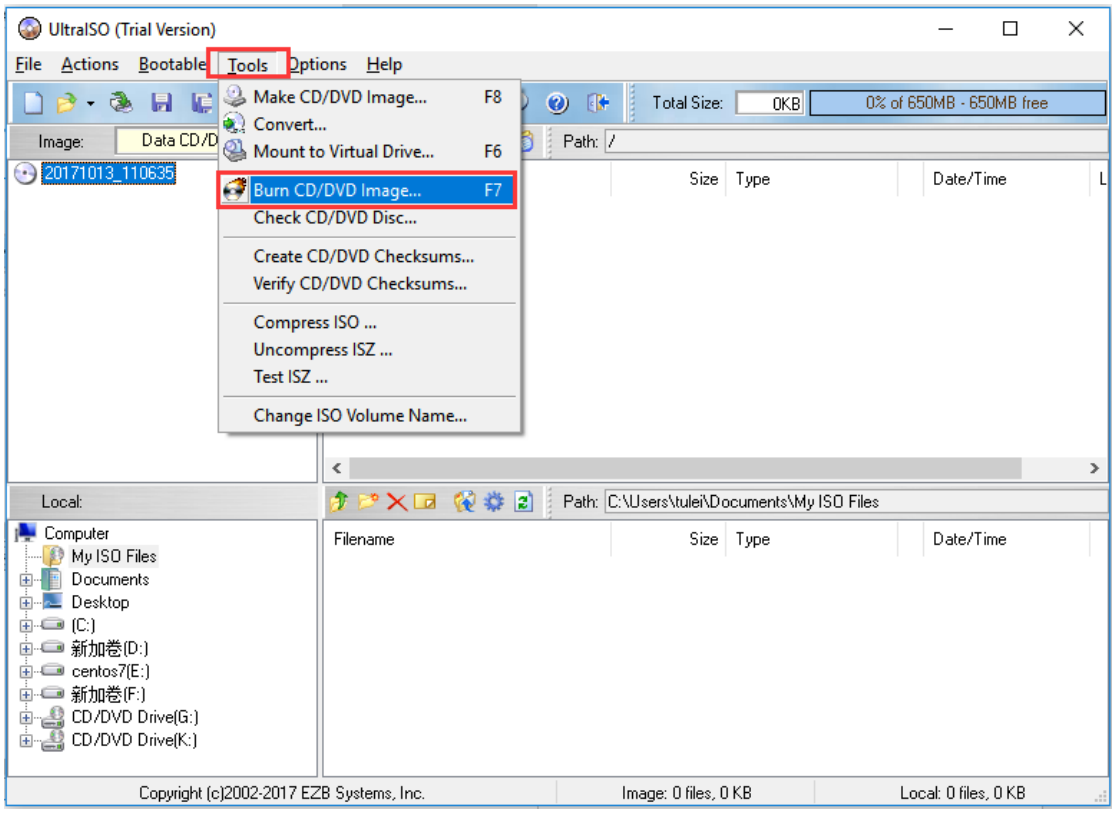


Note:

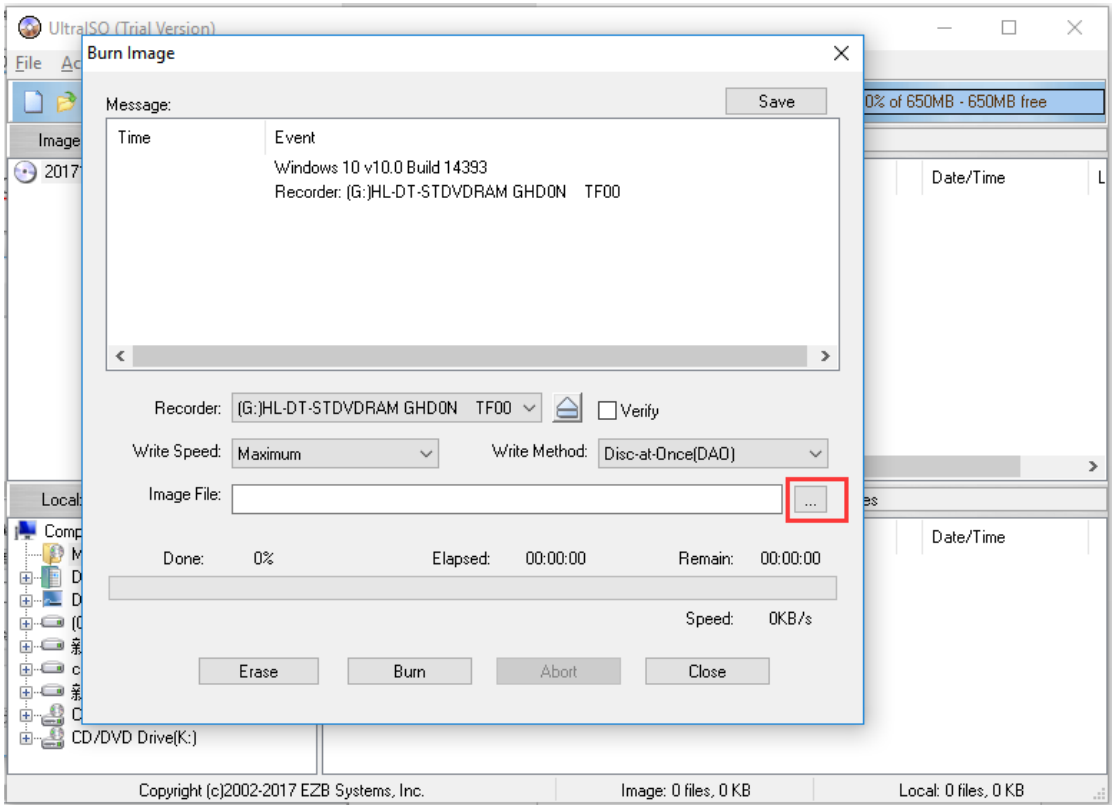
Some of the servers may not identify the installed USB disk, if installation via USB disk is failed, please change to install via CD.

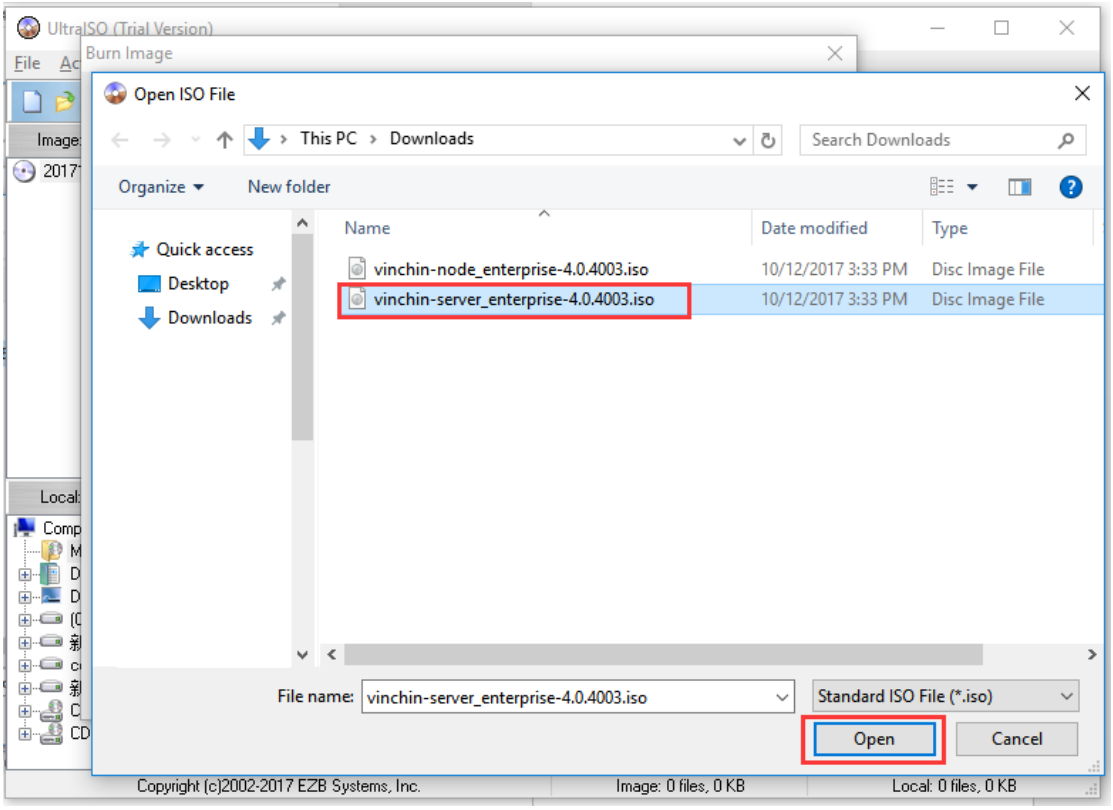
Record to CD Guide

Insert CD into computer CD driver, then open the record tool UltraISO，choose [**Tool**] → [**Burn CD/DVD Image…**]

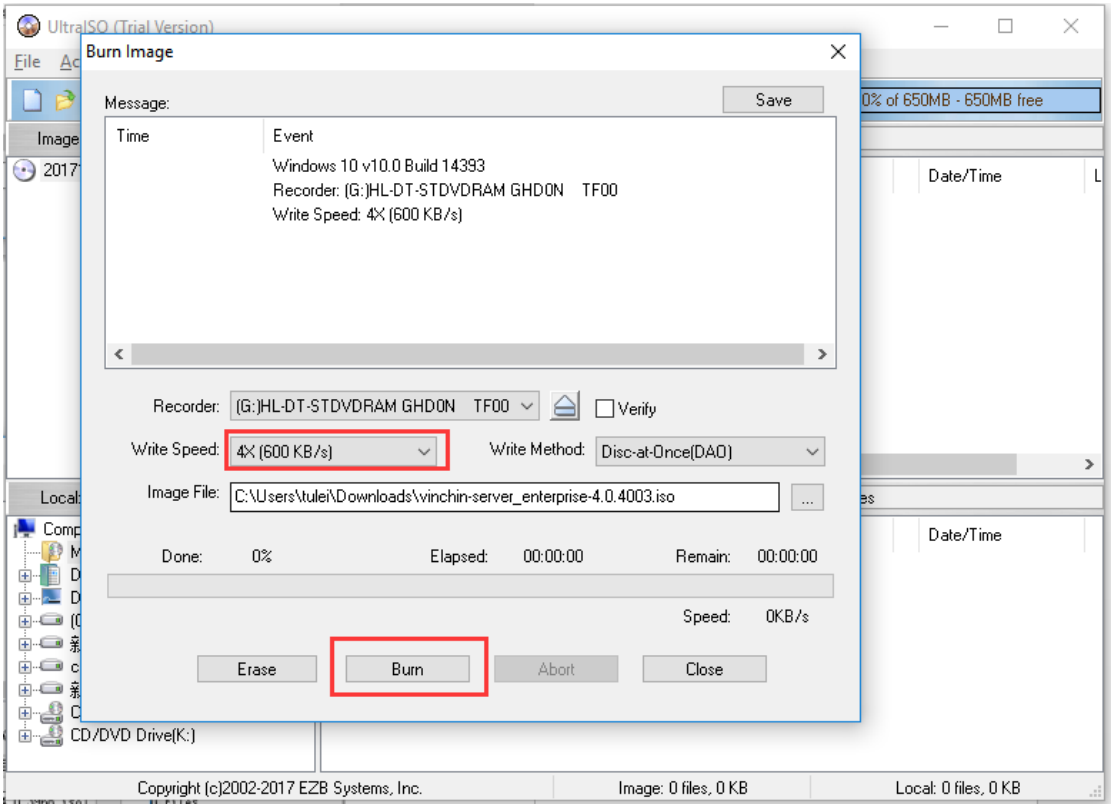


Click “ ... ” to choose Vinchin backup server iSO file and click [**Open**].





Choose the lowest writing speed, click[**Burn**].



Install Backup Server

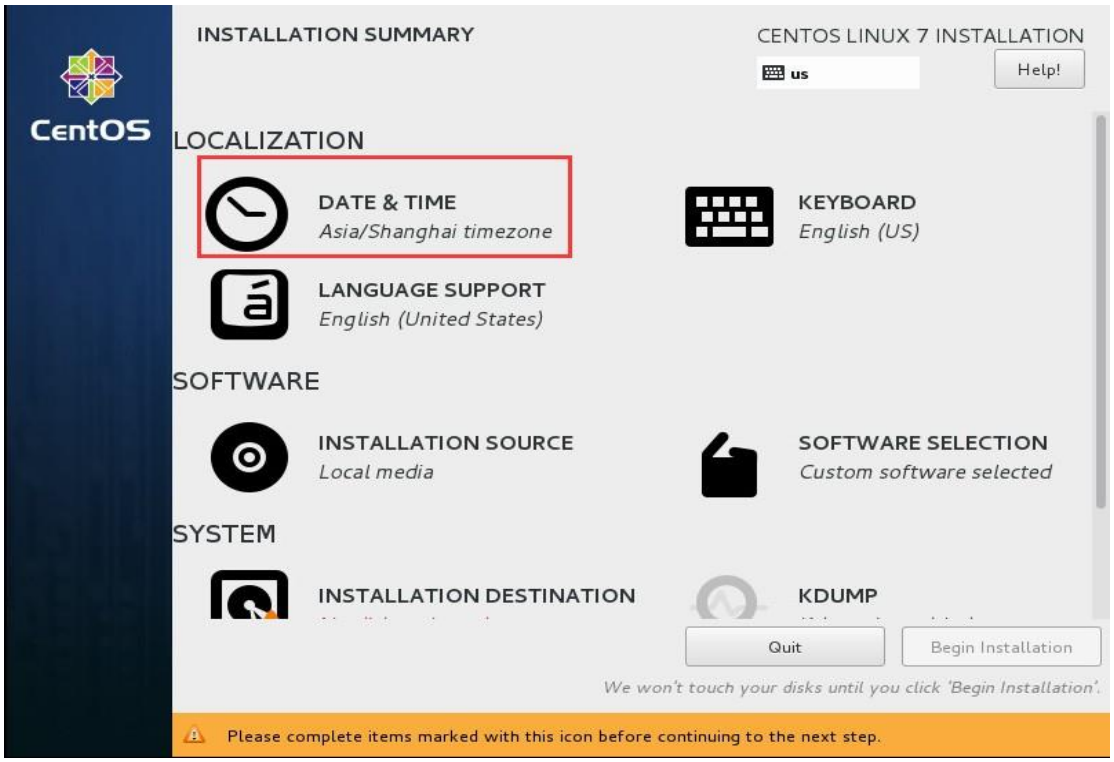
Before installing Vinchin backup server, please set the guidance mode of server BIOS as “legacy”, and set the USB disk guide or CD guide as first boot option.

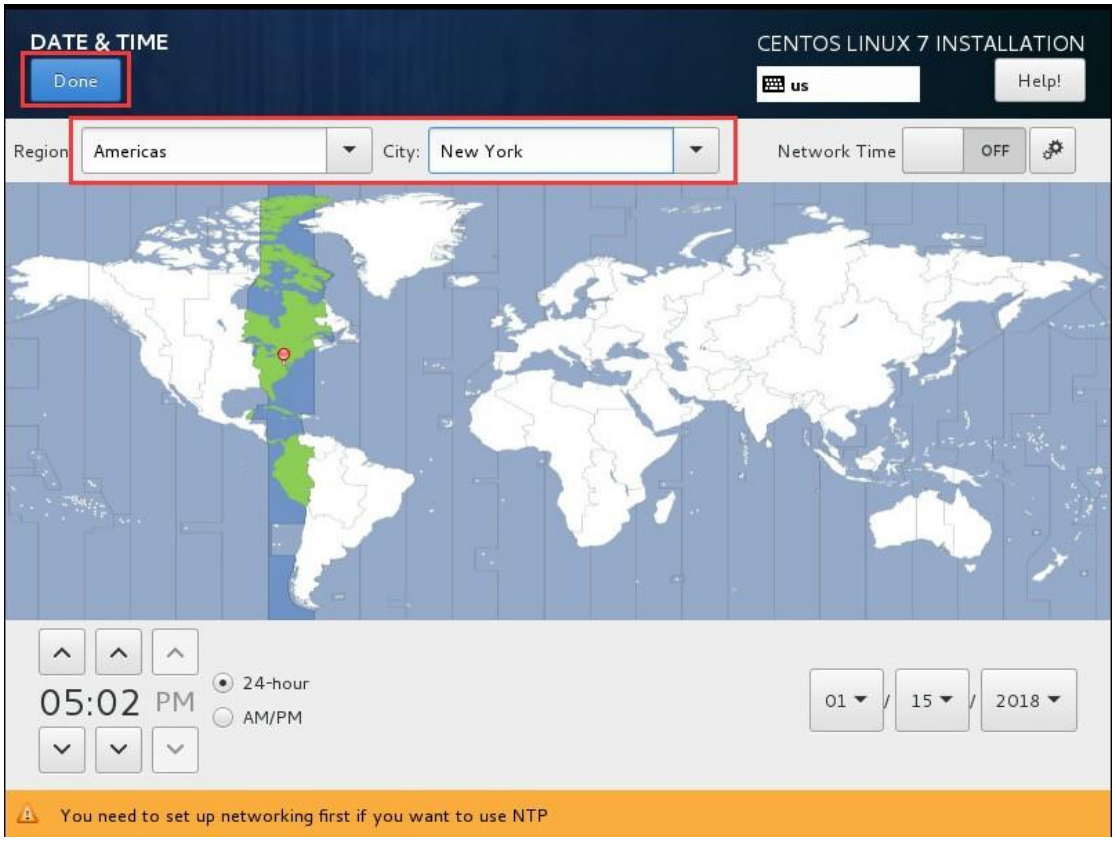
Suggested Server Configuration:

4 Cores CPU, 8GB RAM, Gigabit NIC, 100G system disk, data disk should support partition, local disk, LVM, FC, ISCSI, NFS, CIFS

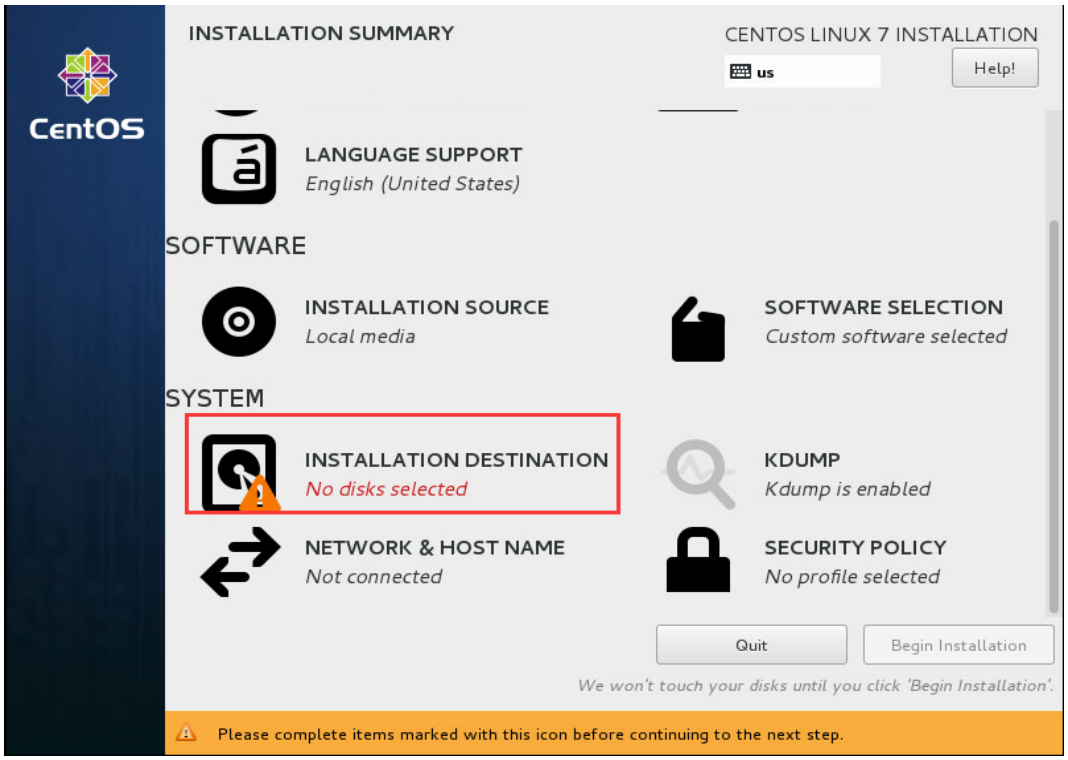
Choose “**Install CentOS 7**” and press [Enter] button on the keyboard. Then a few seconds later, you will be entering the **“INSTALLATION SUMMARY”** page.

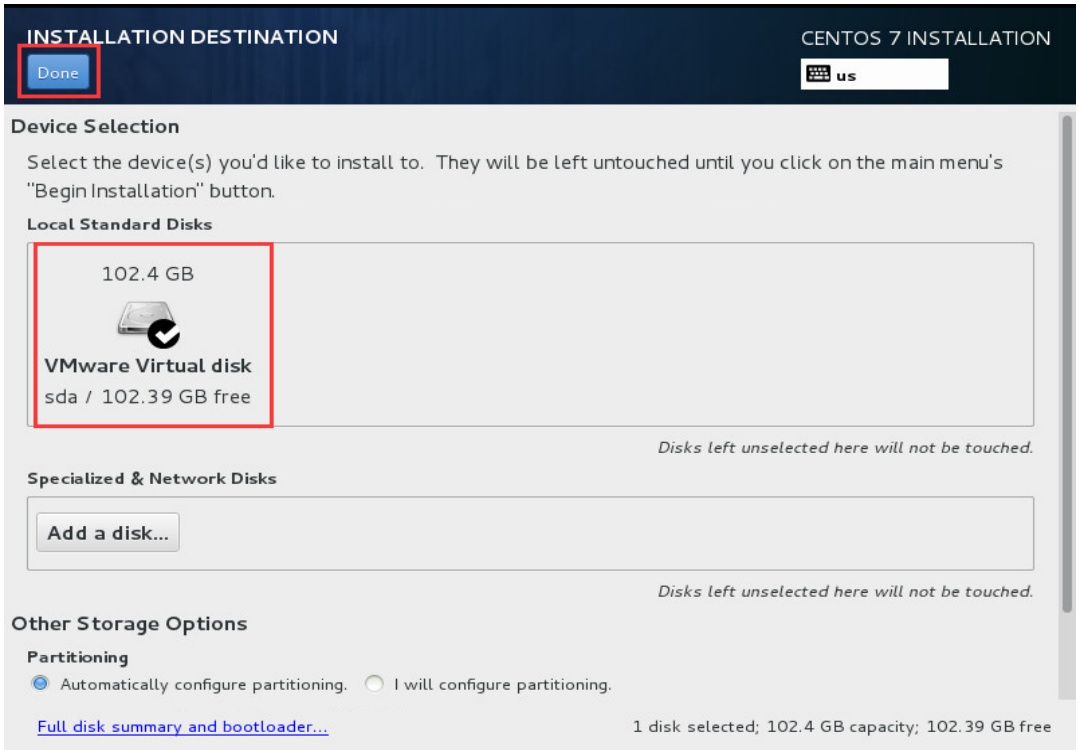
Click **“DATE & TIME”** to set up time for your Vinchin backup server.



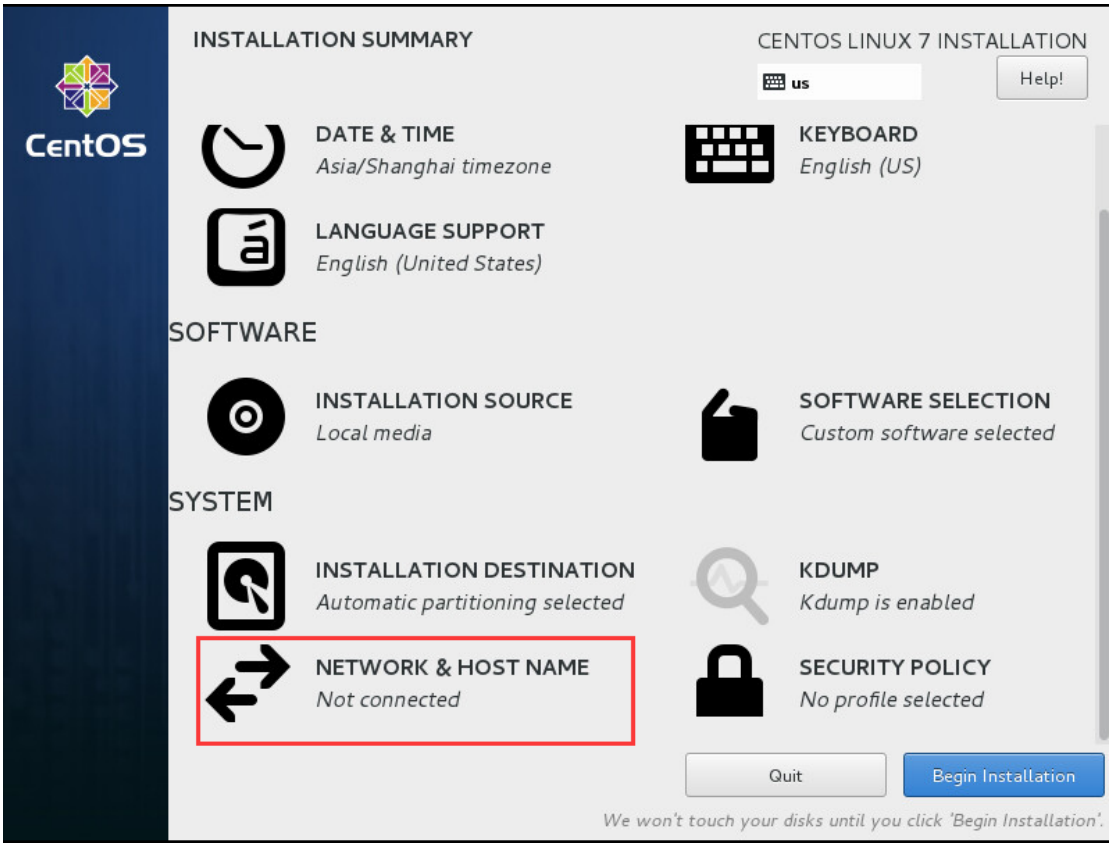


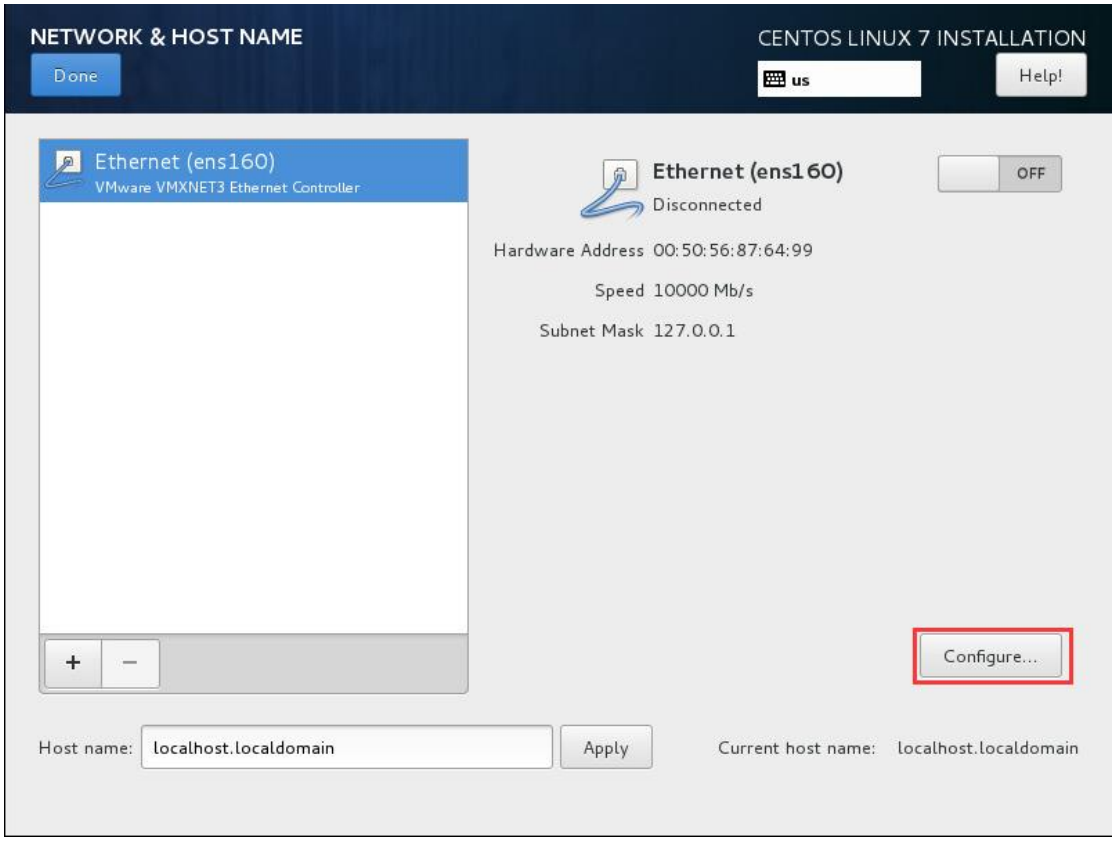
Click the "**INSTALLATION DESTINATION**", choose one disk as system disk (if multiple disk exists, you can only choose one disk to install the Vinchin backup server, other disks can be used as backup repositories), 100+GB system disk is suggested. Then Click [**Done**].

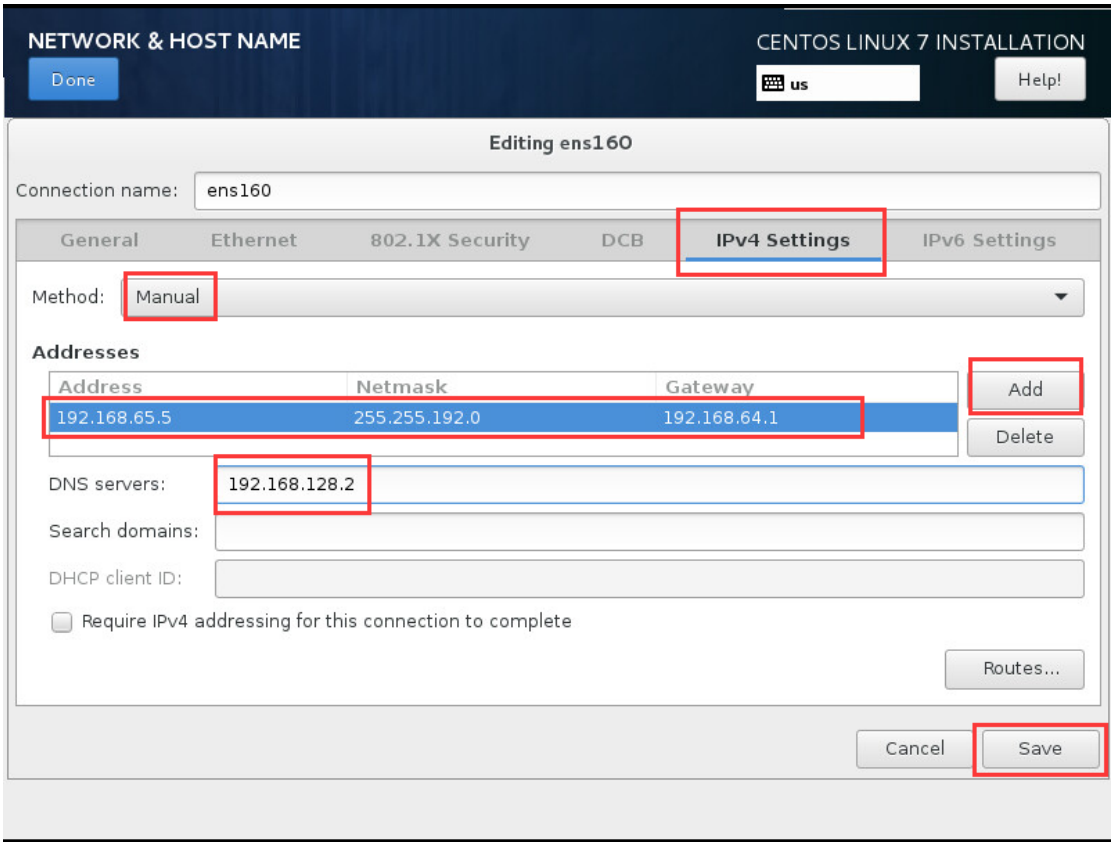




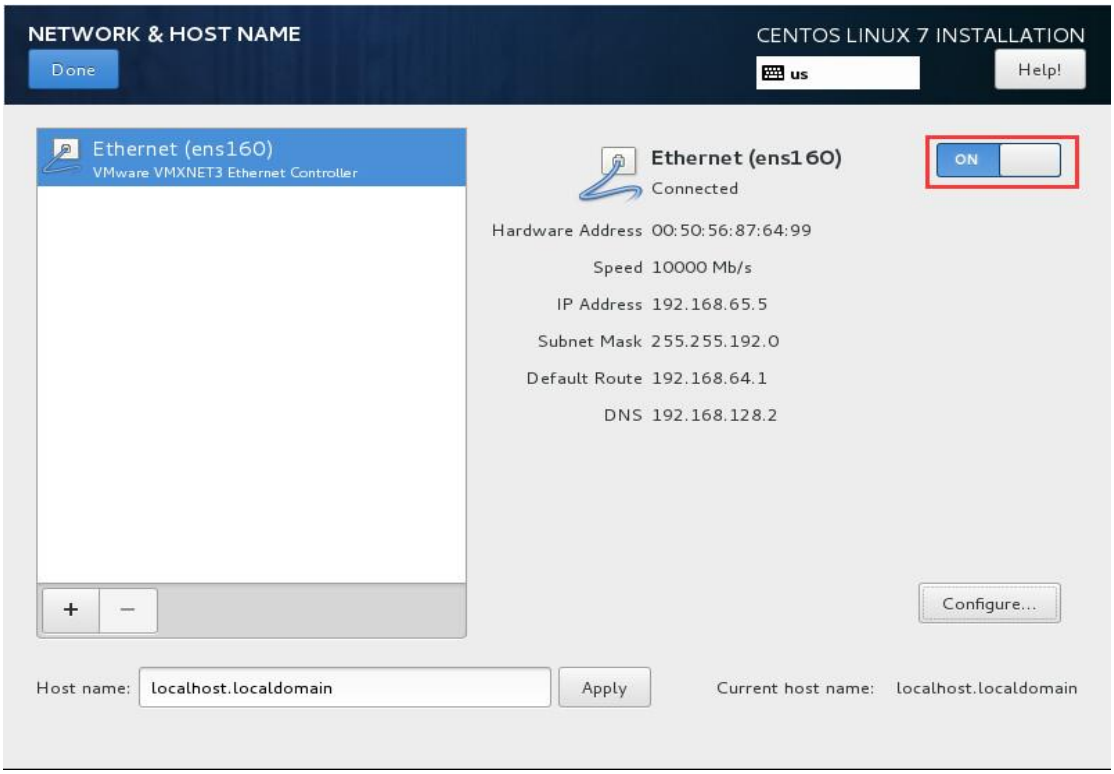
Click "**NETWORK&HOST NAME**" , then Click [**Configure…**]. Click "**IPv4 Settings**" → Choose "**Manual**" in the "Method" selection → Click [**Add**] to enter your network IP address information, example as below. Then click [**Save**] to save your configuration data.


INSTALLATION SUMMARY
CENTOS LINUX 7 INSTALLATION
us
Help!
CentOS
DATE & TIME
Asia/Shanghai timezone
KEYBOARD
English (US)
LANGUAGE SUPPORT
English (United States)
SOFTWARE
INSTALLATION SOURCE
Local media
SOFTWARE SELECTION
Custom software selected
SYSTEM
INSTALLATION DESTINATION
Automatic partitioning selected
KDUMP
Kdump is enabled
NETWORK & HOST NAME
Not connected
SECURITY POLICY
No profile selected
Quit
Begin Installation
We won't touch your disks until you click 'Begin Installation'.

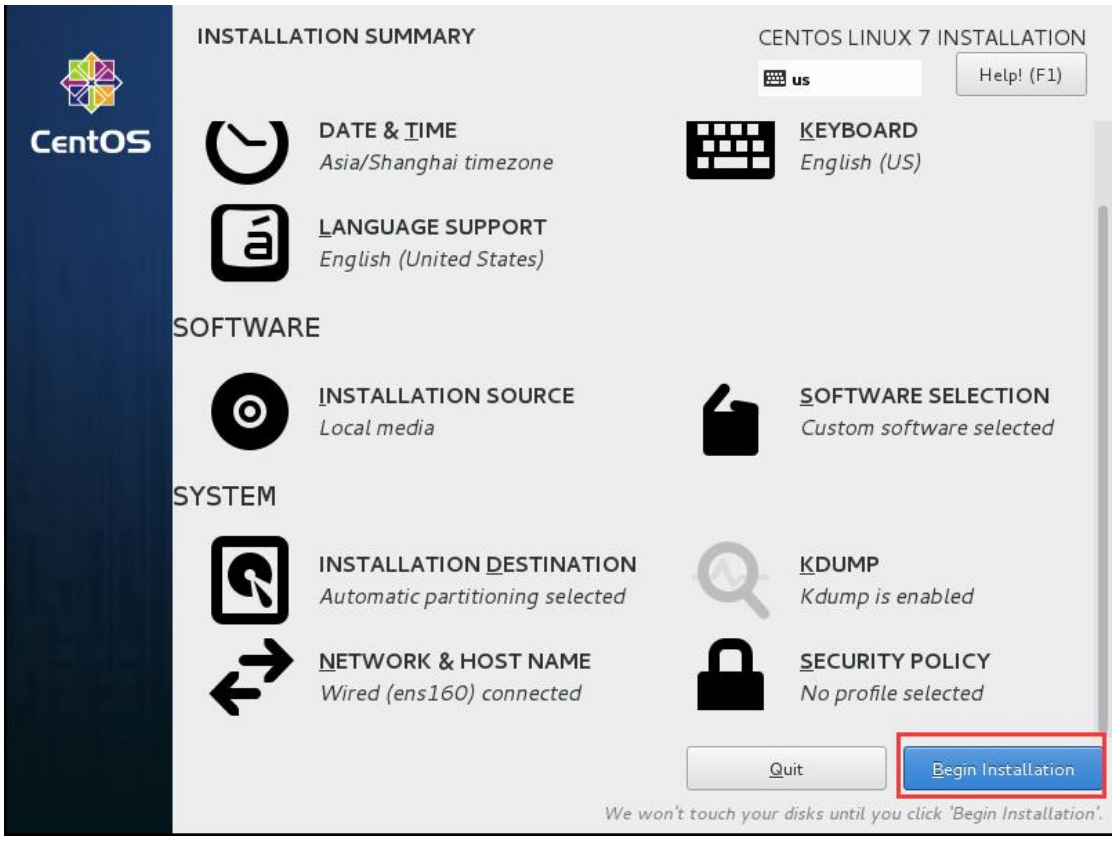

NETWORK & HOST NAME
Done
CENTOS LINUX 7 INSTALLATION
us
Help!
Ethernet (ens160)
VMware VMXNET3 Ethernet Controller
Ethernet (ens160)
Disconnected
OFF
Hardware Address 00:50:56:87:64:99
Speed 10000 Mb/s
Subnet Mask 127.0.0.1
Configure...
Host name: localhost.localdomain
Apply
Current host name: localhost.localdomain

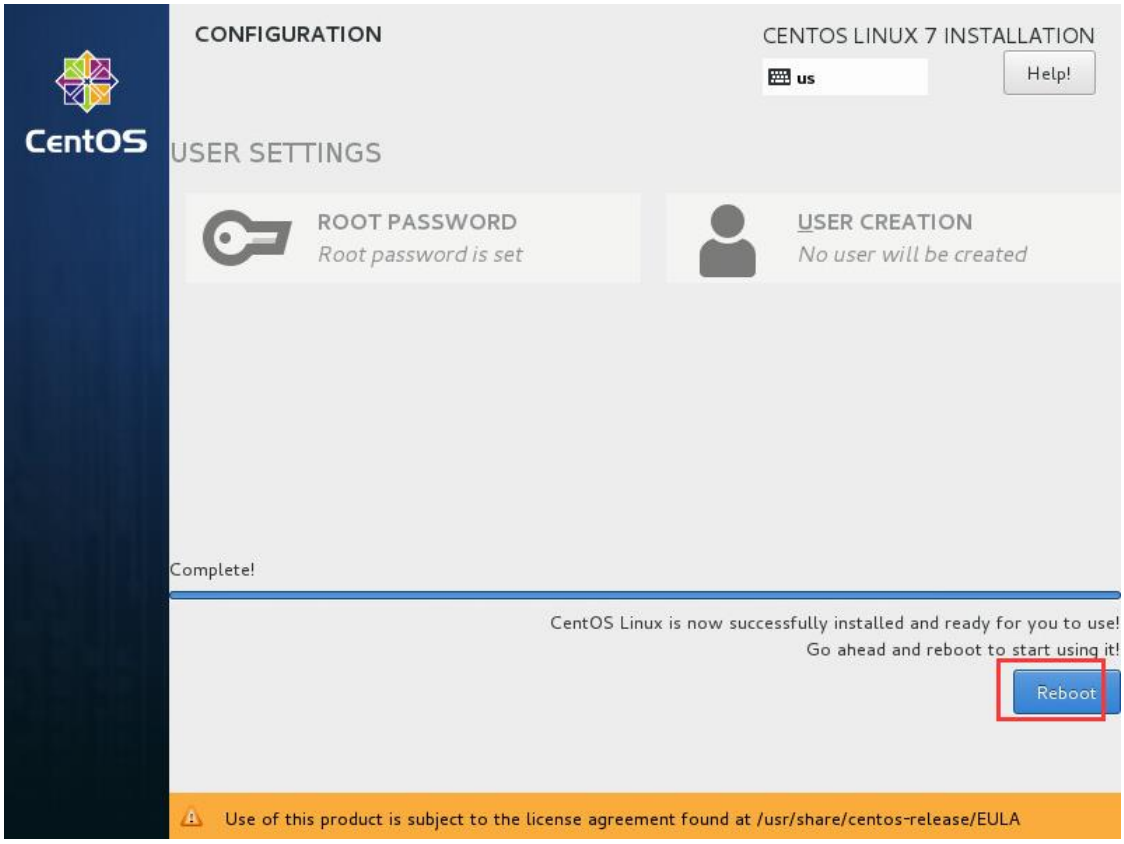


Click the red marked button in below to enable the Ethernet connection, you will see the configured network information. Click [**Done**] on the left top to return back to home page.



Other options are defaultly configured, directly click [**Begin installation**] to install. After installation completed, pull out the USB disk or CD, click [**Reboot**] to reboot the VM.





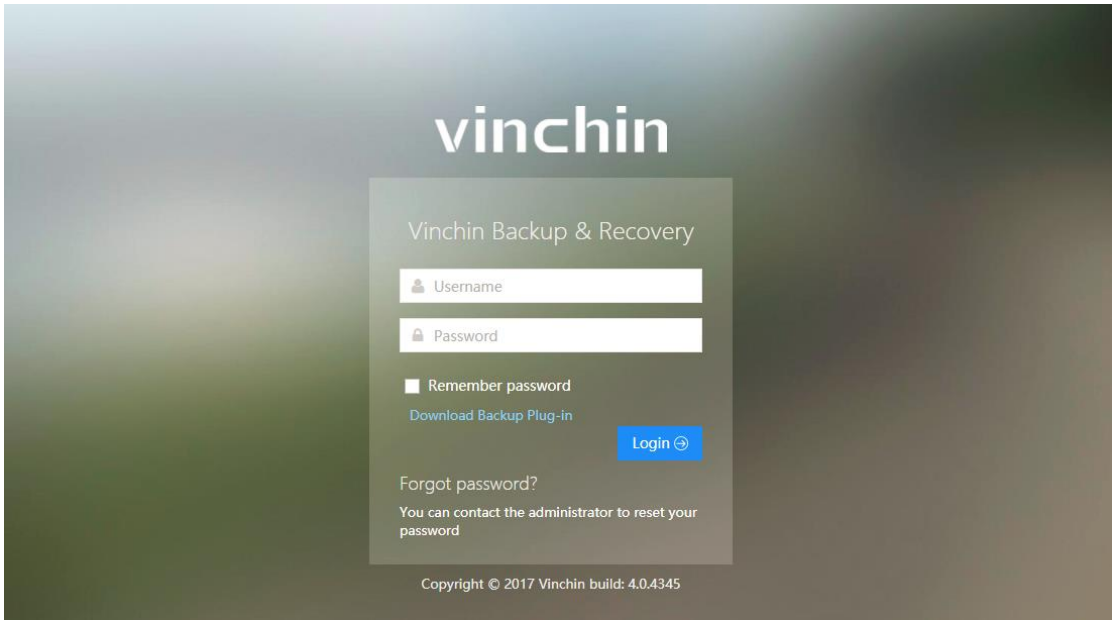
After VM rebooted, you can login to the web console of Vinchin backup server. Enter the IP address of Vinchin backup server to access the web login page. (**Google Chrome browser is recommended.**)

Web login username: admin

Password: 123456

Backup server OS username: root

Password: 12345678

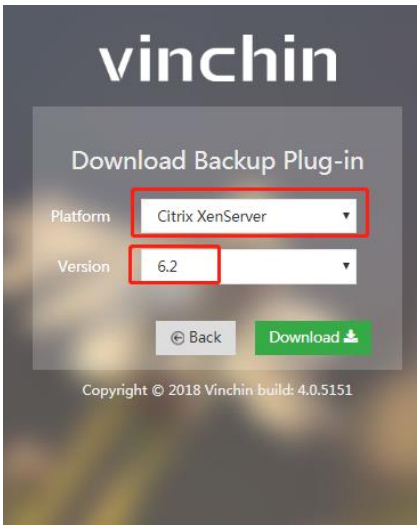


IMPORTANT:

When backing up VMs under XenServer and KVM 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 your hypervisor and corresponding version, e.g. "Citrix XenServer 6.2", then click [**Download**]. Copy the downloaded plugin to your XenServer or KVM host root directory for installation.



Installation/Uninstallation of **XenServer, InCloud Sphere** backup plugin:

Install command: rpm –ivh vxe-backup-agent-xxxx.rpm

```
[root@xenserver-zksijrpu ~]# rpm -ivh vxe-backup-agent-4.0-4762.xe.6.5.0.and.7.0.0.x86_64.rpm
Preparing...                          ################################# [100%]
Updating / installing...
   1:vxe-backup-agent-4.0-4762.xe.6.5.################################# [100%]
Restarting vxe_backup_agent (via systemctl):               [  OK  ]
iptables: Saving firewall rules to /etc/sysconfig/iptables:[  OK  ]
[root@xenserver-zksijrpu ~]#
```

Uninstall command：rpm –e vxe-backup-agent

```
[root@xenserver-zksijrpu ~]# rpm -e vxe-backup-agent
Stopping vxe_backup_agent (via systemctl):                 [  OK  ]
```

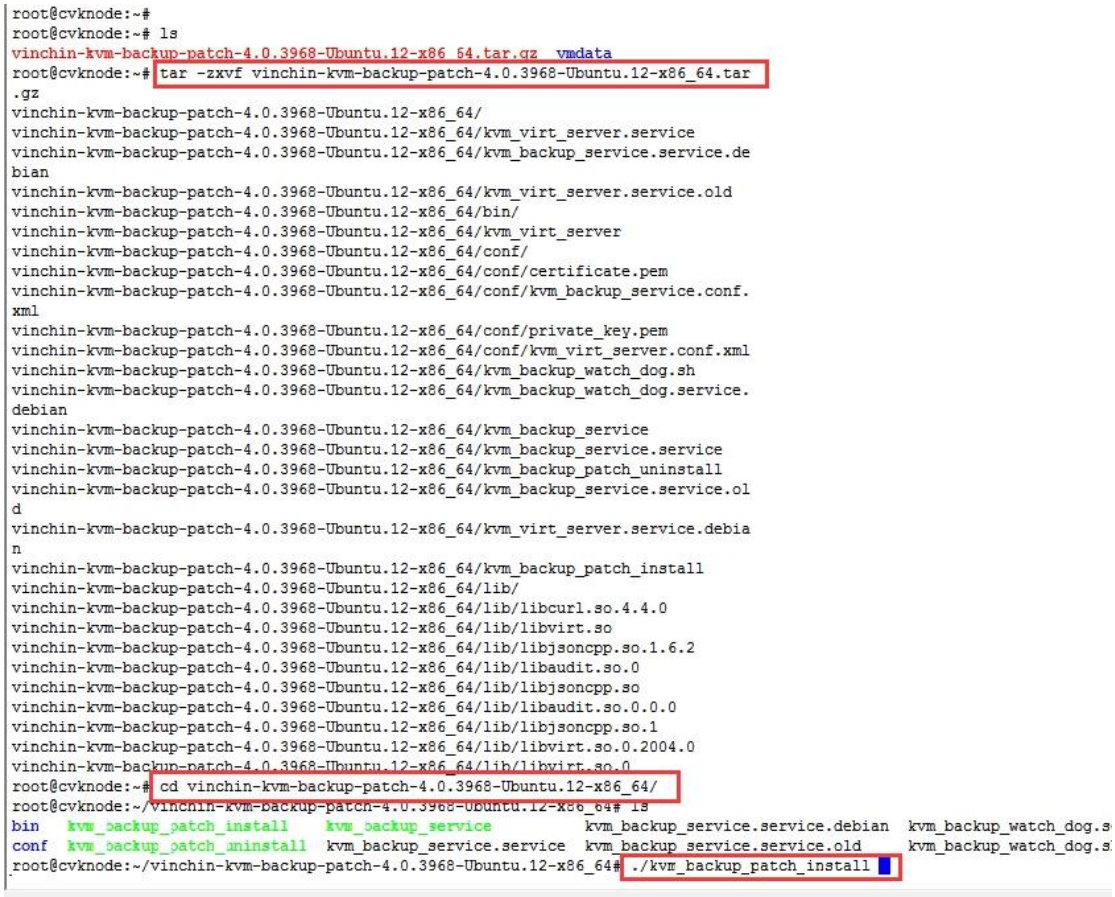
Installation/Uninstallation of **RHV/Ovirt, H3C CAS, Sangfor HCI, OpenStack** backup plugin:

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



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

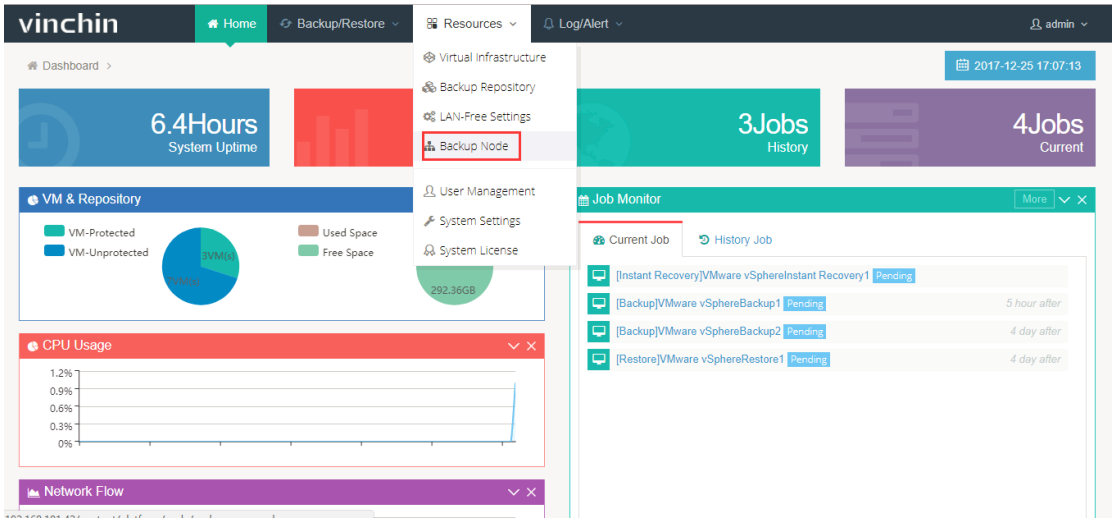
esc Exit the editor

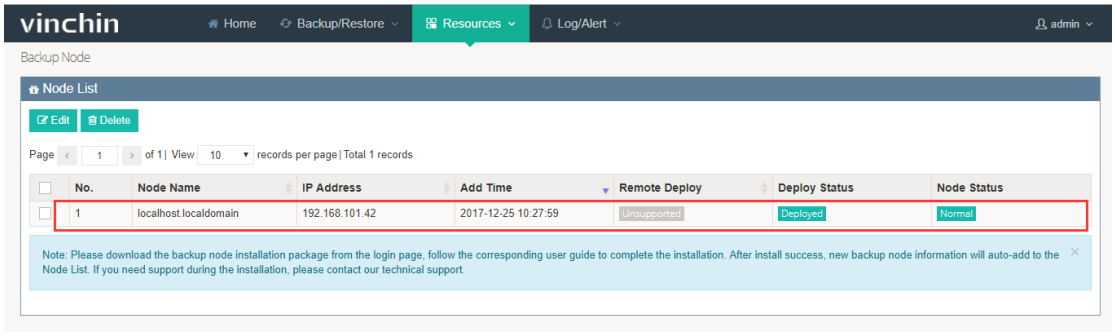
：wq Save & exit

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
Dashboard
Virtual Infrastructure
Backup Repository
LAN-Free Settings
Backup Node
User Management
System Settings
System License
2017-12-25 17:07:13
6.4Hours
System Uptime
3Jobs
History
4Jobs
Current
VM & Repository
VM-Protected
VM-Unprotected
Used Space
Free Space
3VMs
292.36GB
Job Monitor
More
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
CPU Usage
1.2%
0.9%
0.6%
0.3%
0%
Network Flow


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.

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