



Vinchin Backup & Recovery v6.5

Installation Guide

2021/11



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Overview

This documentation is intended to instruct data center system administrators through the process of installing and deploying Vinchin Backup & Recovery to construct your data center backup infrastructure.

Vinchin Backup & Recovery contains the following components:

- **Vinchin Backup & Recovery Server** (hereinafter called Vinchin Backup Server)
- **Vinchin Backup & Recovery Node** (hereinafter called Vinchin Backup Node)
- **Vinchin Backup & Recovery Proxy** (hereinafter called Vinchin Backup Proxy)

Among the 3 infrastructure components, Vinchin Backup Server is the primary infrastructure component which needs to be installed to protect your virtual and hybrid environments. Vinchin Backup Node and Vinchin Backup Proxy are optional components.

Vinchin Backup Node is needed only for backup and restoration of large-scale virtual infrastructures. It is used to decentralize the workload of the Backup Server.

Vinchin Backup Proxy is supported by Vinchin Backup & Recovery v6.0 and v6.5, and it is dedicated for VMware vSphere virtual infrastructure without a Storage Area Network (SAN). It needs to be installed on the vSphere ESX/ESXi server as a virtual machine, to improve the backup and restore efficiency.

Both Vinchin Backup Server and Backup Node are recommended to be installed on physical machines. While Vinchin Backup Proxy needs to be installed on VMware vSphere ESX/ESXi server as a virtual machine.

System Requirements

Physical Machine Requirements for Backup Server and Backup Node

No	Hardware	Requirement
1	CPU	2*Intel Xeon E5 (2.5GHz, 4 cores, 8 threads or higher)
2	RAM	32GB or more
3	Network	2*10Gbps Base-T RJ45 ports or more
4	OS Disk	2*100GB SSD
5	OS Disk RAID Level	RAID 1
6	Backup Disk	1.5 times (or more) capacity of the production data size, if other storage media will be used as backup storage, then backup disk is not required.
7	Backup Disk RAID Level	RAID 5
8	Fibre Channel HBA (optional)	8Gb Fibre Channel or faster

Virtual Machine Requirements for Backup Server and Backup Node

*(For evaluation only)

No	Hardware	Requirement
1	CPU	4*vCPUs or more
2	RAM	8GB or more
3	Guest OS	CentOS 7 Linux (64-bit)
4	Virtual Disk 1	100GB or more (for OS installation)
5	Backup Storage	1.5 times (or more) capacity of the production data size; Please do not use virtual disk as backup storage, you can use external NAS server or other storage servers to provide iSCSI or NFS shares to Vinchin Backup server as backup storage.

Virtual Machine (VMware) Requirements for Backup Proxy

No	Hardware	Requirement
1	CPU	4*vCPUs or more
2	RAM	8GB or more
3	Guest OS	CentOS 7 Linux (64-bit)
4	Virtual Disk	50GB or more (for system volume only)

Download ISO Image

Vinchin Backup Server

Go to Vinchin product trial page using the link below:

<https://www.vinchin.com/en/support/vm-backup-free-trial.html>

Simply register for your free trial with your full name, Email address and your hypervisor name. Then the latest ISO image will be downloaded automatically, at the same time you'll receive an Email with a 60-day free trial license attached.

Please keep the free trial license safe, as after installation you'll need it to activate Vinchin Backup Server for 60 days of full-featured free trial.

Vinchin Backup Node and Proxy

The download link of Vinchin Backup Node is as below:

<https://www.vinchin.com/download/node/latest>

The download link of Vinchin Backup Proxy is as below:

<https://www.vinchin.com/download/proxy/latest>

Prepare Installation Media for Physical Machine

If you have IPMI remote access to your server like iDRAC, then you can skip this bootable ISO preparation part, go to [installation part](#) directly.

The installation of Vinchin Backup Server and Vinchin Backup Node on physical machines can be done either by using a USB flash drive or the DVD drive on the physical machine.

To create a bootable USB drive or DVD, you can use UltraISO (for Windows), or you can use any other creator which you are familiar with.

To download UltraISO please go to its download page: <https://www.ultraiso.com/download.html>

Below are instructions of how to create bootable USB drive and bootable DVD, choose either way which you prefer to prepare the installation media.

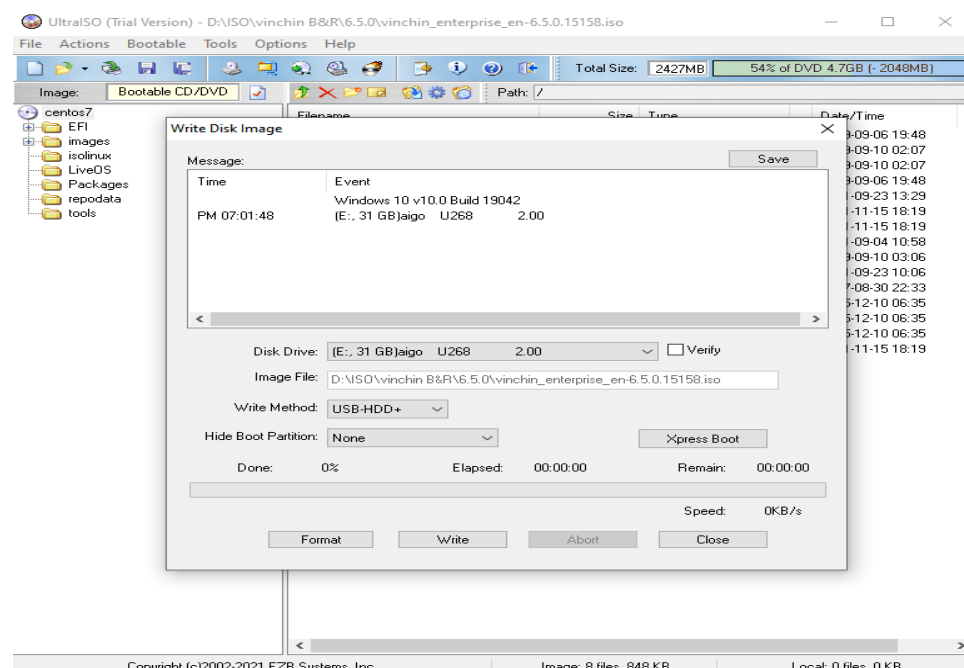
Create Bootable USB Drive

Prepare a 4GB or larger USB drive, and backup all data of the USB drive before you start to create bootable USB drive with it.

Attach the USB drive to your Windows PC and run UltraISO.

Open the ISO image from **File > Open** menu.

Then choose **Bootable > Write Disk Image** and then click **Write** to start creating the bootable USB drive.



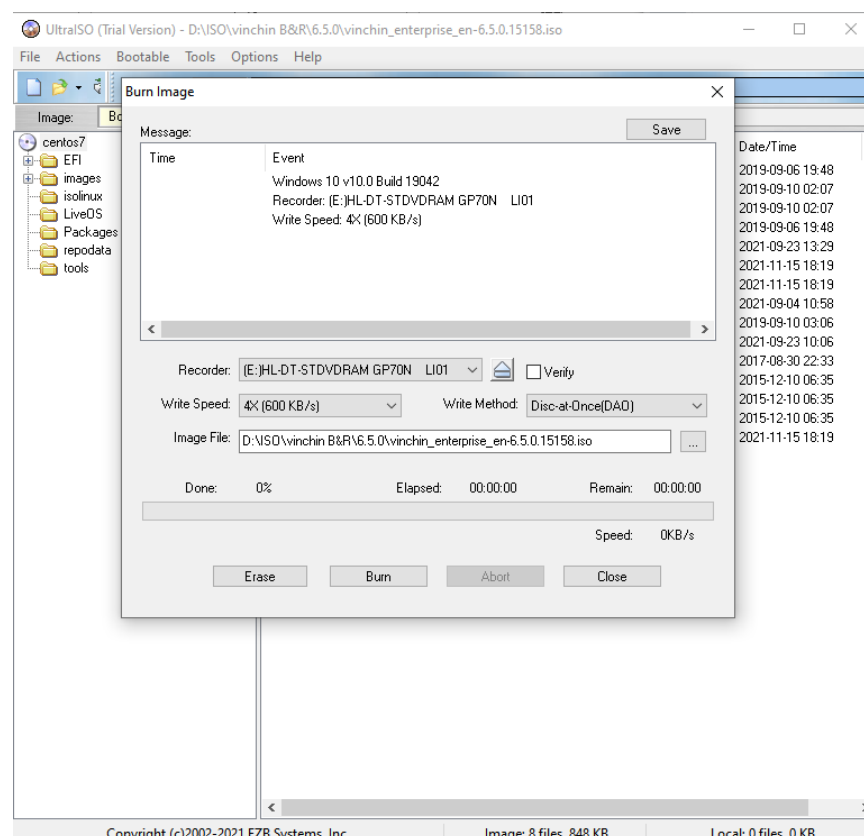
It will take a few minutes to write all necessary data to the USB drive, please wait patiently for the whole process to be completed.

Burn Bootable DVD

Make sure your Windows PC has a working R/W DVD drive. Otherwise, attach an external USB DVD drive. Insert a blank or rewritable DVD into your DVD drive.

Run UltraISO, and open the ISO image from **File > Open** menu.

Then choose **Tools > Burn CD/DVD image**, set the **Write Speed** to the lowest speed and then click on **Burn** button to start burning the bootable DVD.



It will take a few minutes to write the ISO image to the DVD, please wait patiently until the process to be completed.

For both Vinchin Backup Server and Vinchin Backup Node, you can create the installation media the same way by using the corresponding ISO image. After you have created the installation media, then you can proceed to install.

Physical Machine Installation

No matter you choose to install Vinchin Backup Server or Backup Node from USB drive, or DVD drive, or iDRAC, the installation processes are the same. Please follow the instructions below to complete the installation.

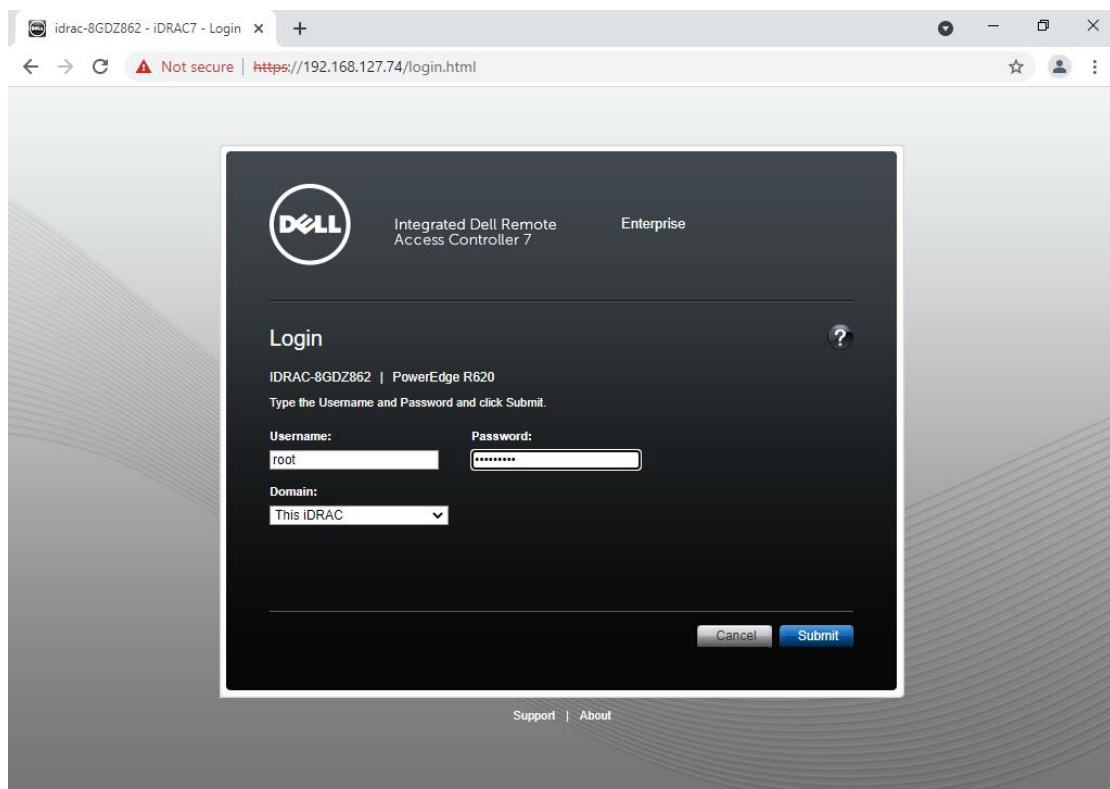
If you are going to install both Vinchin Backup Server and Backup Node, it is recommended to install Vinchin Backup Server first, then to install Backup Node.

Vinchin Backup Server Installation

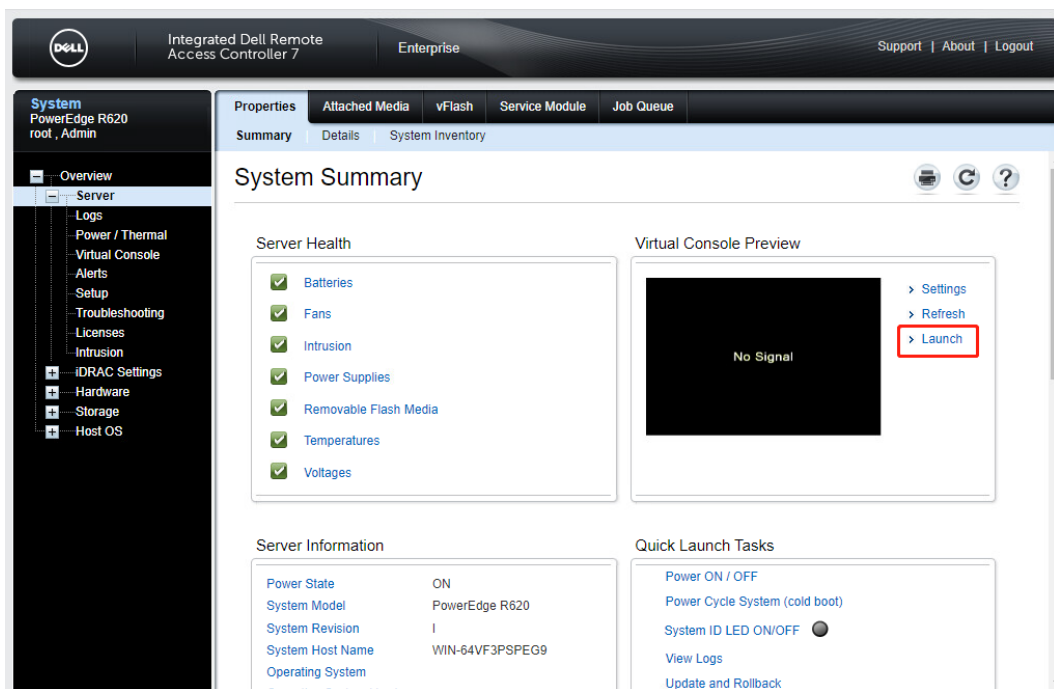
Here take Dell PowerEdge R620 for example, let's see how to install Vinchin Backup Server on physical machine with iDRAC.

Preparations before Starting the Installation.

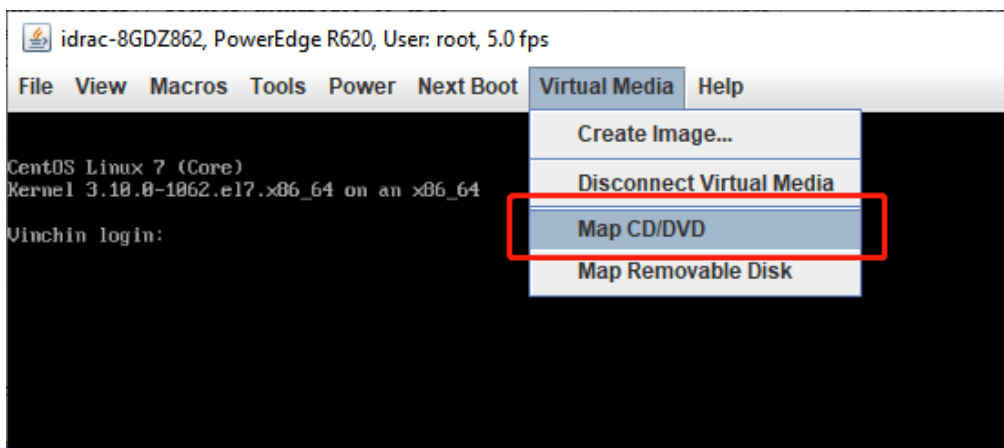
1. Log in iDRAC with administrative information.



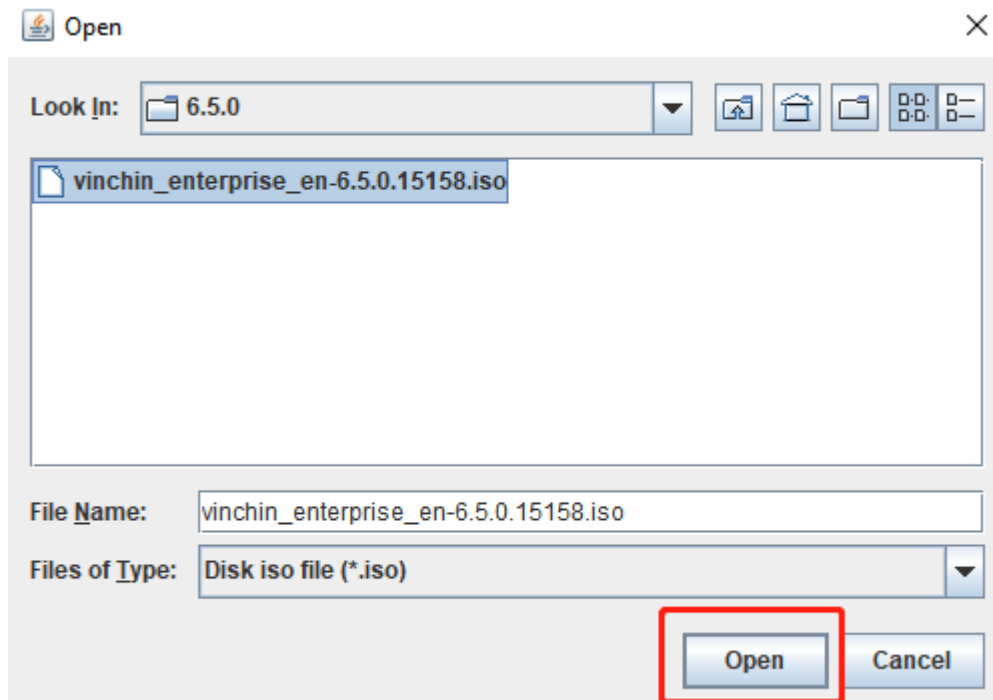
2. Launch the Virtual Console.



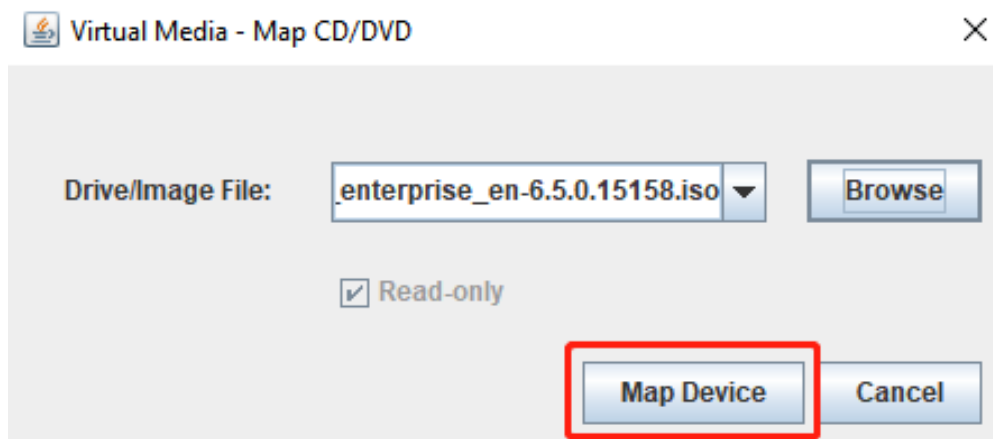
3. Select Virtual Media > Map CD/DVD.



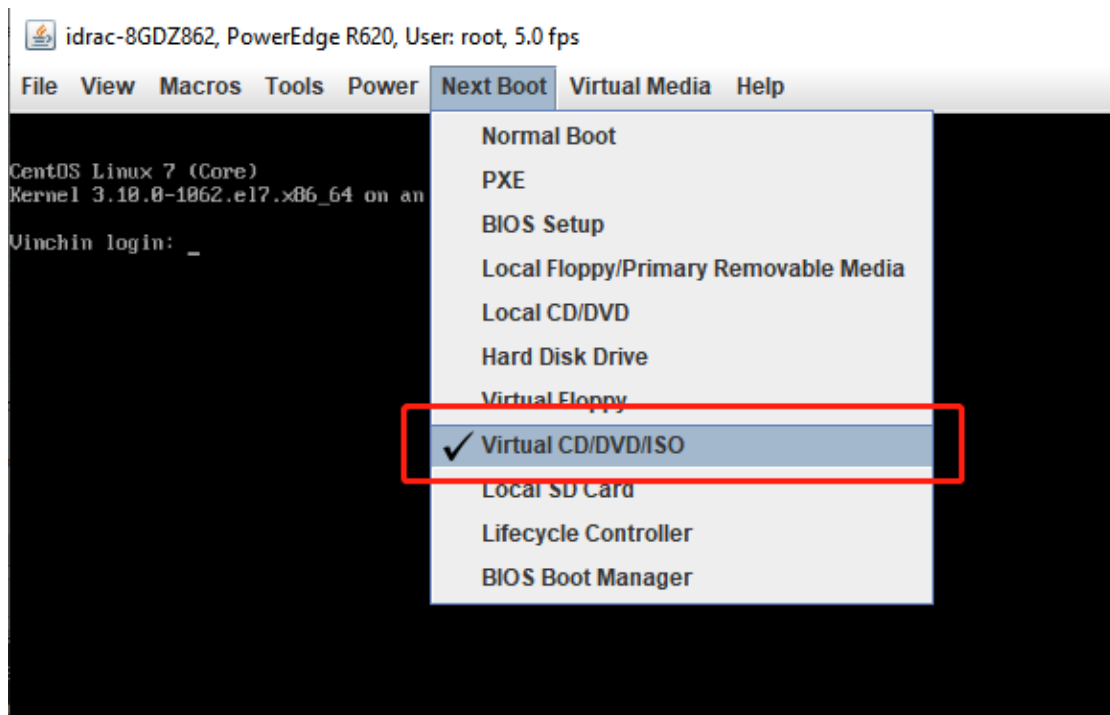
Open and select the Vinchin Backup Server ISO image.



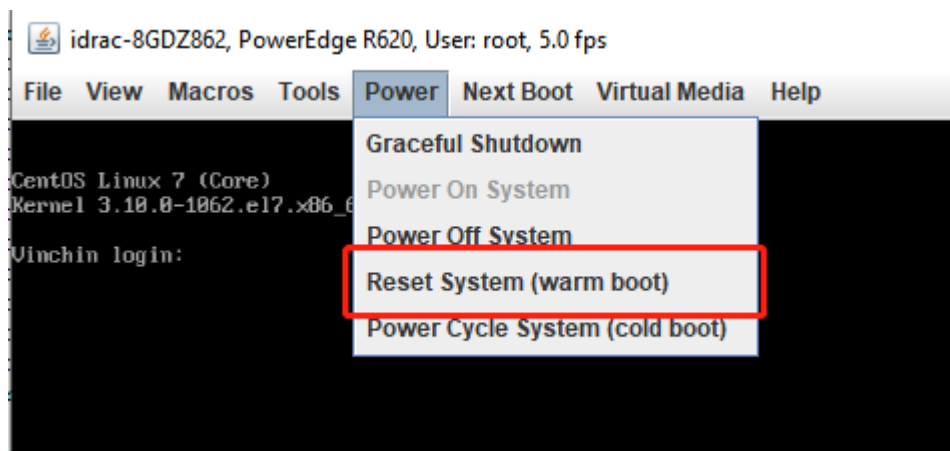
Click **Map Device**.



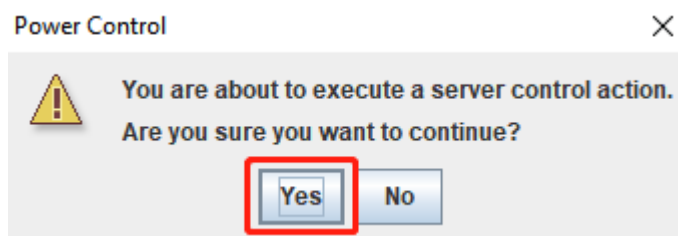
4. Click **Next boot > Virtual CD/DVD/ISO**.



5. Click **Power > Reset system (warm boot)**.

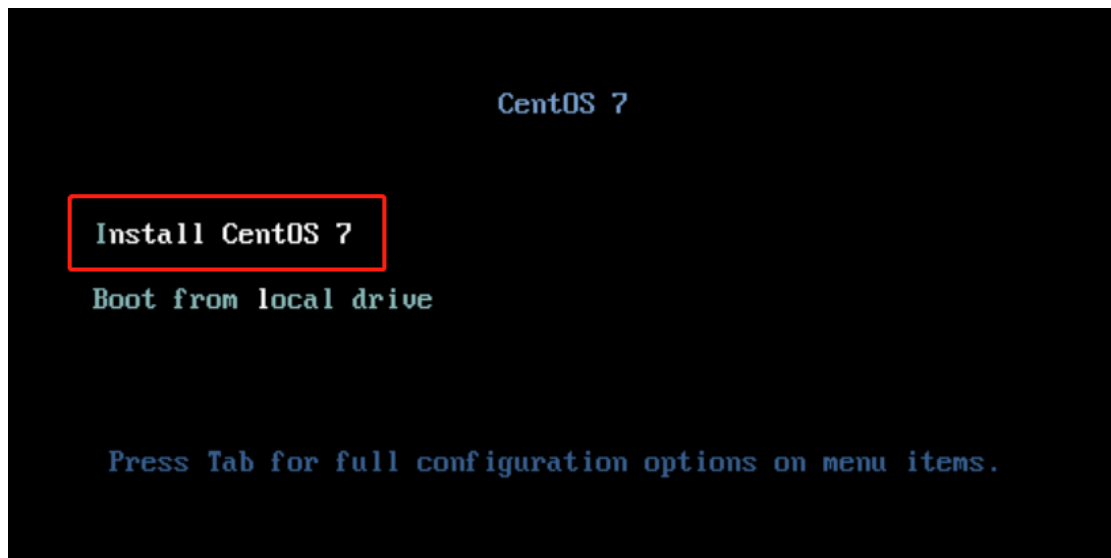


Click **Yes**.



Vinchin Backup Server Installation Wizard

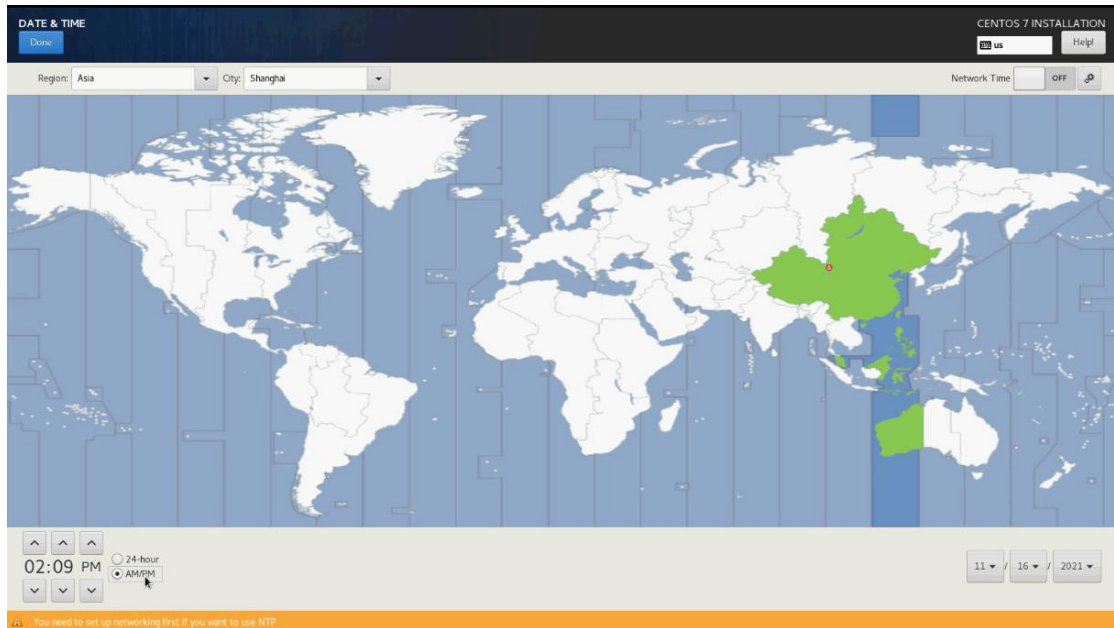
1. After restart the server, here we are in Vinchin Backup Server installation process. Please choose **Install CentOS 7** and press **Enter**.



2. On the **INSTALLATION SUMMARY** screen, a few settings need to be completed. Please select **Date & time** to set the system time zone.



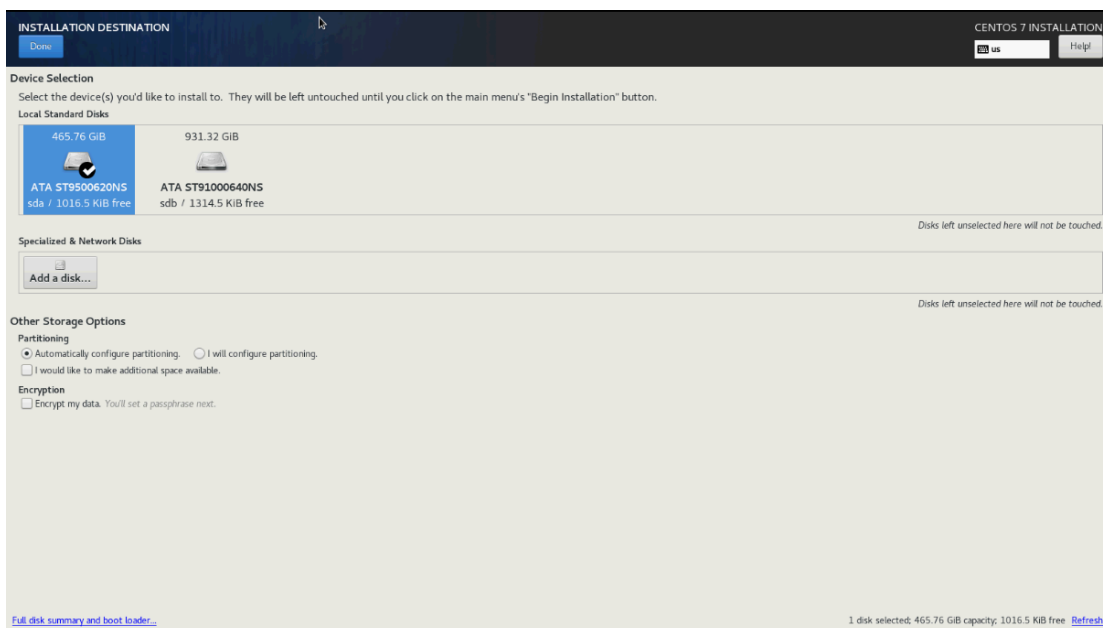
Select the **Time Zone** where you are located in and click **Done**.



3. Click on **INSTALLATION DESTINATION** to select the system disk for installation.



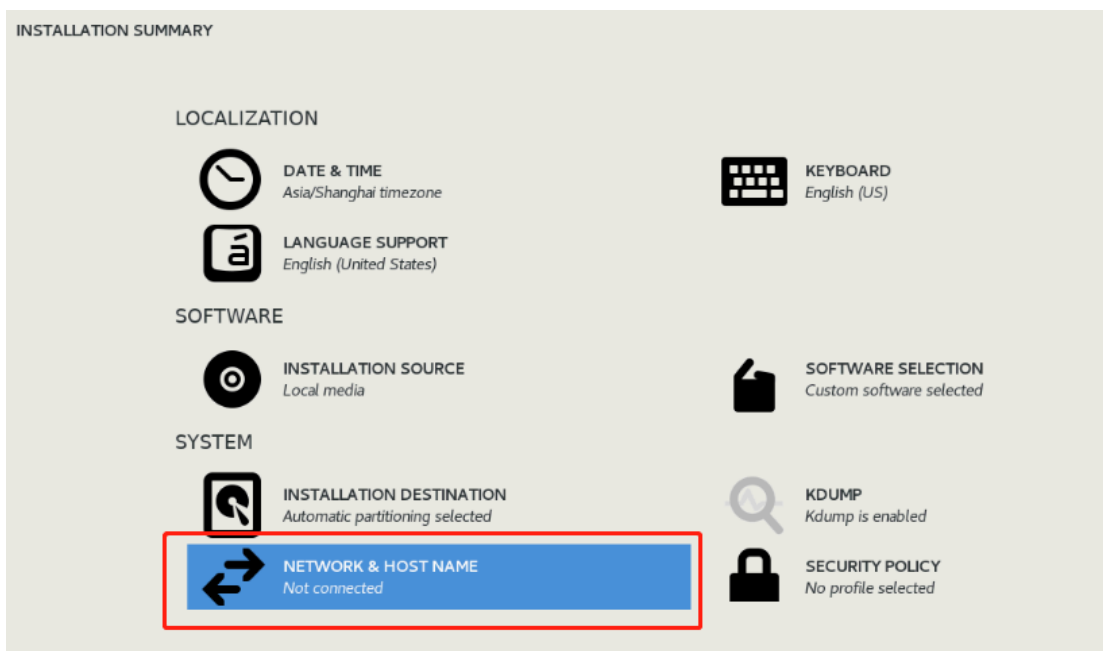
Here we select the **OS disk** and choose the default partitioning strategy, then click **Done** to continue.



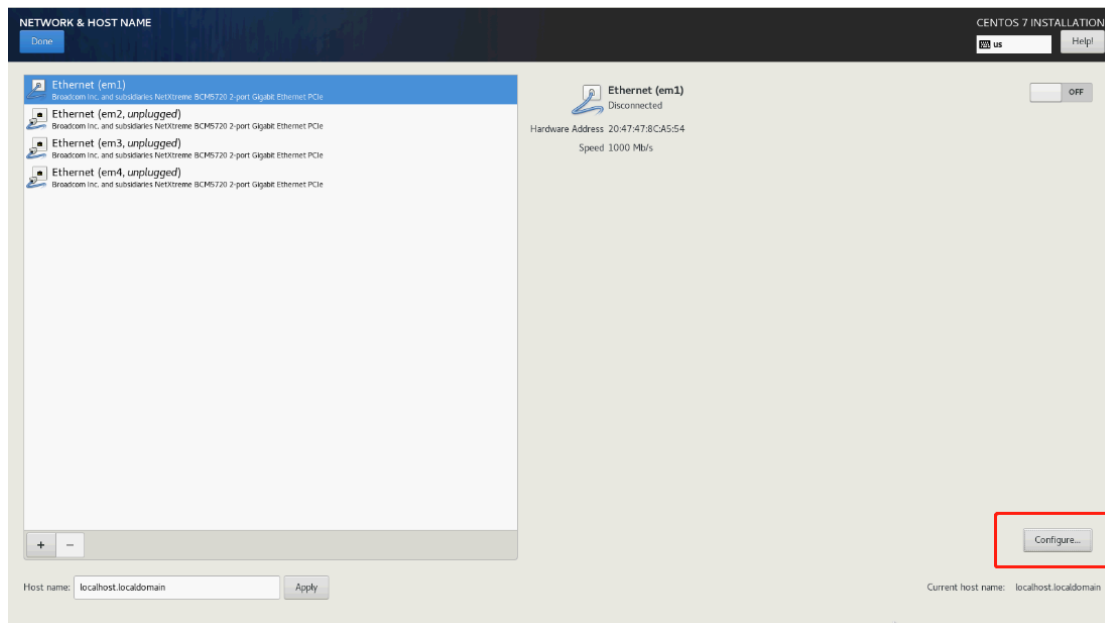
Note

If you have more than one disk, please make sure that only one target disk is selected as system disk (the others used as data disk and the system disk CAN'T be used as data disk).

4. Click **NETWORK & HOST NAME** to configure network settings.



Set **Host name**, e.g., *vinchin.com* for Vinchin Backup Server, then click **Apply**.
To set the network profiles, click on **Configure...**

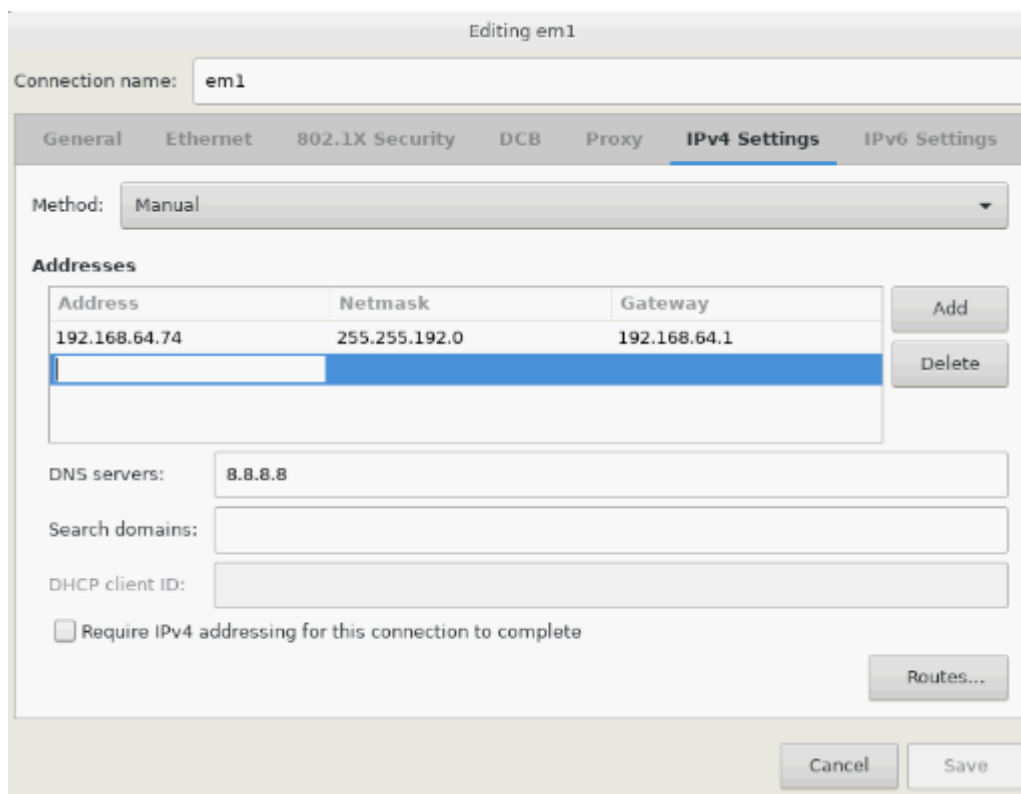


Click on **IPv4 Settings** tab to configure the network profiles.

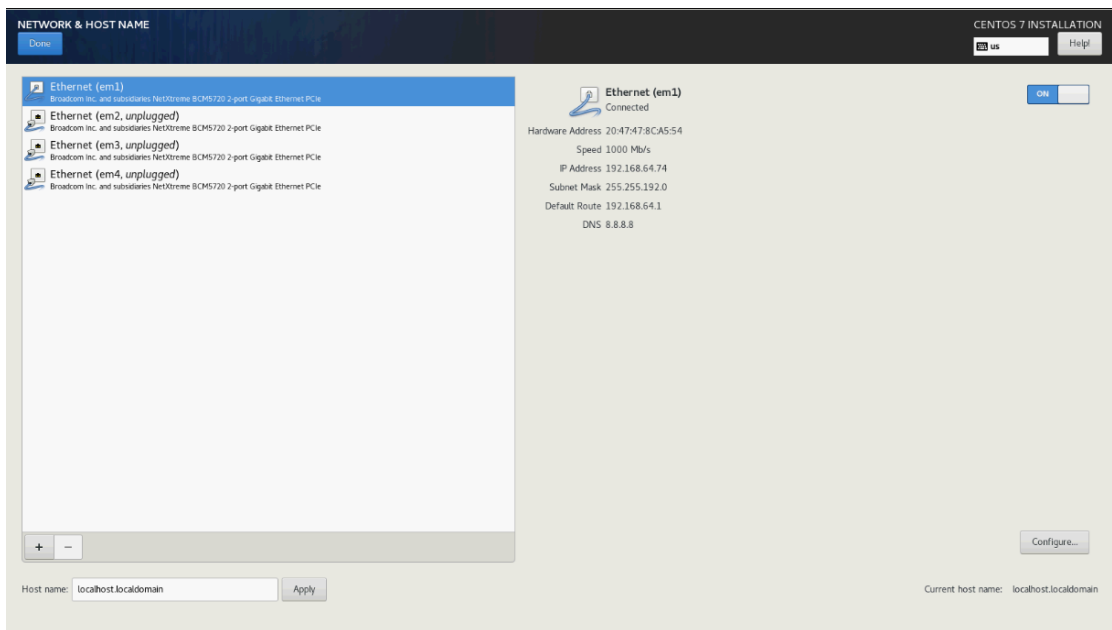
Method: Manual (it's recommended to configure a static IP address to the Backup Server).

Then click on **Add** to manually configure the network profiles. And in the **DNS servers** field, insert a valid DNS server IP.

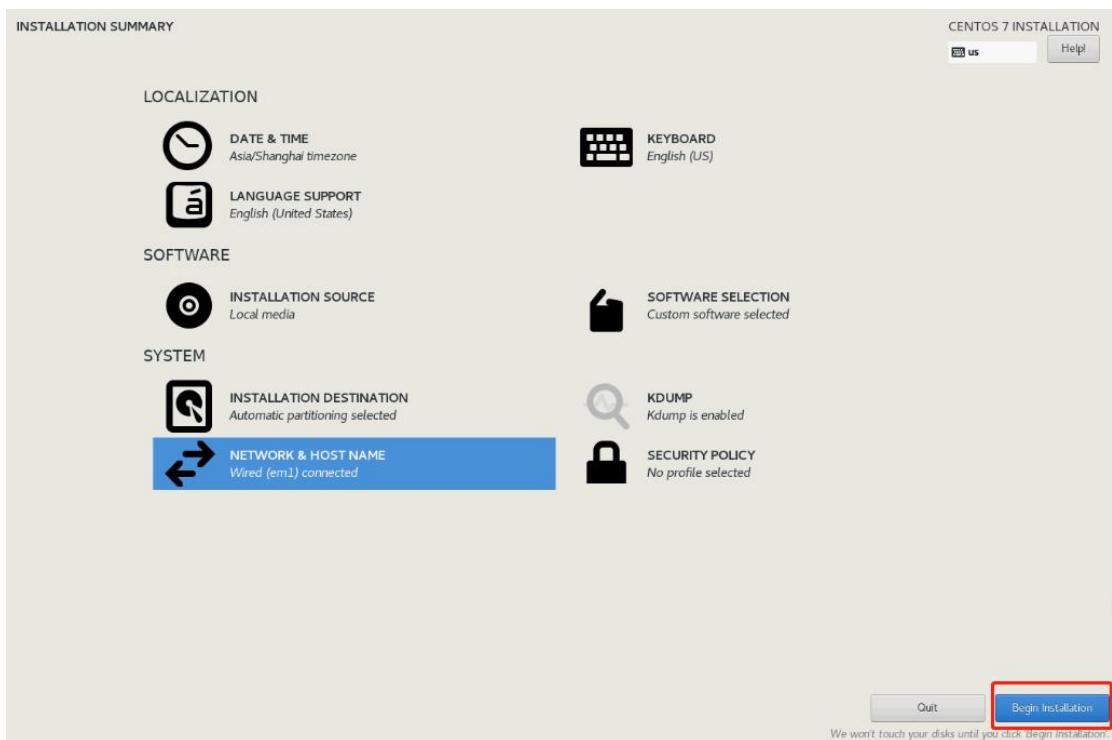
When done, click on **Save**.



Enable the network adapter and then click **Done**.



5. Now simply click on **Begin Installation** to start the installation process.

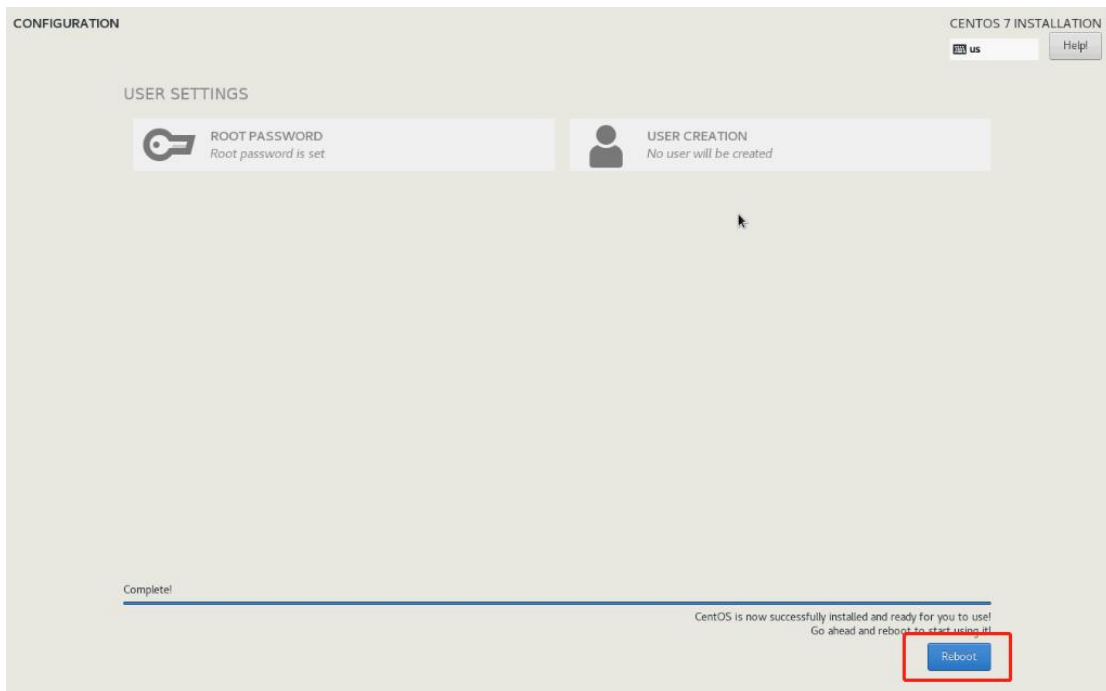


Note

It will take several minutes to complete the installation process, please do not power off or restart the server.

6. When the installation is completed, please remove the USB drive or DVD, or disconnect virtual media, then click on **Reboot**.

After rebooting, the whole installation process is completed.



Note

It will take several minutes to complete rebooting, because Vinchin software will be installed during the first reboot. Please don't power off or restart the server, otherwise the installation of Vinchin software will fail.

Vinchin Backup Node Installation (Optional)

If there are more than 200 virtual machines, or the amount of production data is more than 50TB. You can consider deploying Vinchin Backup Node to share the workload with Backup Server.

The installation of Vinchin Backup Node is quite similar to Vinchin Backup Server installation. Please refer to the [Vinchin Backup Server Installation](#) section to install your Vinchin Backup Node. Please use a new IP address and host name during the Backup Node installation.

After installation, the Backup Node needs to be restarted. When you see the command line login prompt. Please log in the command line interface using the below credentials:

Username: **root**

Password: **Backup@3R**

```
CentOS Linux 7 (Core)
Kernel 3.10.0-1062.el7.x86_64 on an x86_64

vinchin650 login: root
Password:
Last login: Tue Nov 16 15:59:05 from 192.168.129.188
[root@vinchin650 ~]#
```

Then please configure the Backup Node to be connected to the Backup Server with below command:

```
# config_server
```

```
[root@vinchin650 ~]# config_server
Current server ip is: 0.0.0.0, Please input new server ip: 192.168.64.74
Need to reboot system now [Y/n]?Y
```

Then type in the IP address of the Backup Server and press **Enter**.

Now the Backup Node needs to be restarted, please type **Y** and then press **Enter**.

After rebooting, Vinchin Backup Node will be successfully connected to Vinchin Backup Server. And by now, the Backup Node had been successfully deployed, no further settings need to be done from the Backup Node side, as it will be managed by the Backup Server from now on.

Virtual Machine Installation

Vinchin Backup Server and Backup Node Installation

To install Vinchin Backup Server or Backup Node on the hypervisor as virtual machines, please refer to the [System Requirements](#) section for virtual machine configurations of both Vinchin Backup Server and Vinchin Backup Node.

If your Vinchin backup server is installed as a VM, it's not recommended to install a Vinchin backup node VM to expand the backup infrastructure. You can choose to upgrade the backup server VM configurations, or to install backup node on a physical machine to expand the backup infrastructure. Installing Backup node as virtual machine can only be used for evaluation.

Creating a new virtual machine on the hypervisor. The guest OS of new virtual machine should be Linux, and the version should be CentOS 7.

And the virtual CD/DVD drive should be configured to point directly to the Vinchin Backup Server or Backup Node ISO image file.

For the detailed installation process instructions of Vinchin Backup Server, please refer to [Vinchin Backup Server Installation](#). For the detailed installation process of Vinchin Backup Node, please refer to the [Vinchin Backup Node Installation](#).

Vinchin Backup Proxy Installation (Optional)

Vinchin Backup Proxy is dedicated for [VMware vSphere](#) virtual infrastructure without a storage area network. It needs to be installed on the vSphere ESX/ESXi server as a virtual machine. If you are using other hypervisors, please DO NOT install Backup Proxy. There's no need to deploy the Vinchin Backup Proxy if you install Vinchin Backup Server on VM.

Before installing Vinchin Backup Proxy, please review the [requirements](#).

And the virtual CD/DVD drive should be configured to point directly to the Vinchin Backup Proxy ISO image file.

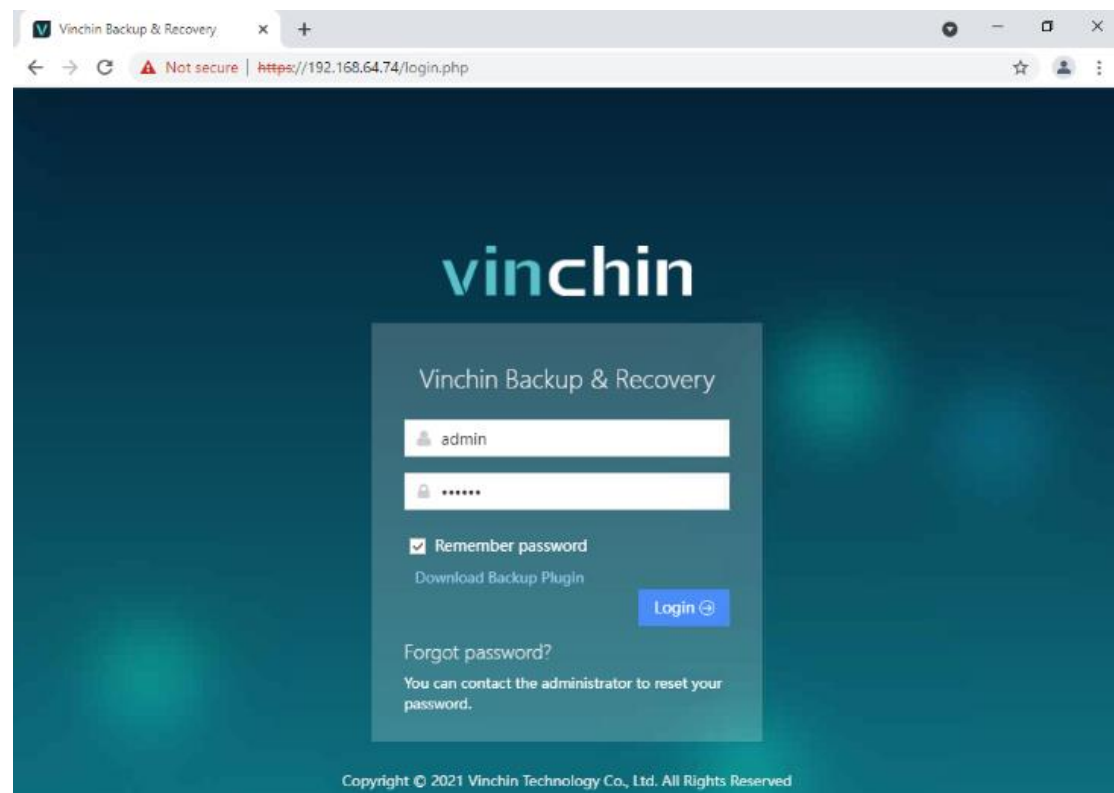
The installation process of Vinchin Backup Proxy is quite similar to Vinchin Backup Server installation. Please refer to the [Vinchin Backup Server Installation](#) section to install your Vinchin Backup Proxy.

Basic Settings

Web Console Login

Only Vinchin Backup Server has management web console. Both Vinchin Backup Node and Backup Proxy have no web console, they will be managed by Vinchin Backup Server.

Use your web browser (Google Chrome is recommended) to open Vinchin Backup Server web console by using the IP address that you have configured during the installation.



Use the default credentials to log in.

Default username: **admin**

Default password: **123456**

Change Admin Password

After you have logged in to the Vinchin Backup Server web console, we recommend you to modify the admin password at first priority for backup server safety.

Click on **admin** > **Change Password** to change the default password.

The suggested new password should be at least 6 characters, and should consist of uppercase and lowercase letters and numerals. And please remember your new password carefully.

Add Backup Proxy to Vinchin Backup Server

If you have installed Vinchin Backup Proxy, to associate the Backup Proxy with Backup Server, please go to **VM Backup > Backup Proxy** screen.

Click on **Add** to add the Backup Proxy.

Simply input the IP address of the Backup Proxy in the **IP/Domain** field.

Give it a name for identification in the **Name** field.

The port number should not be changed.

Click on **OK** to add the Vinchin Backup Proxy to the Vinchin Backup Server.

[Add Backup Proxy](#)

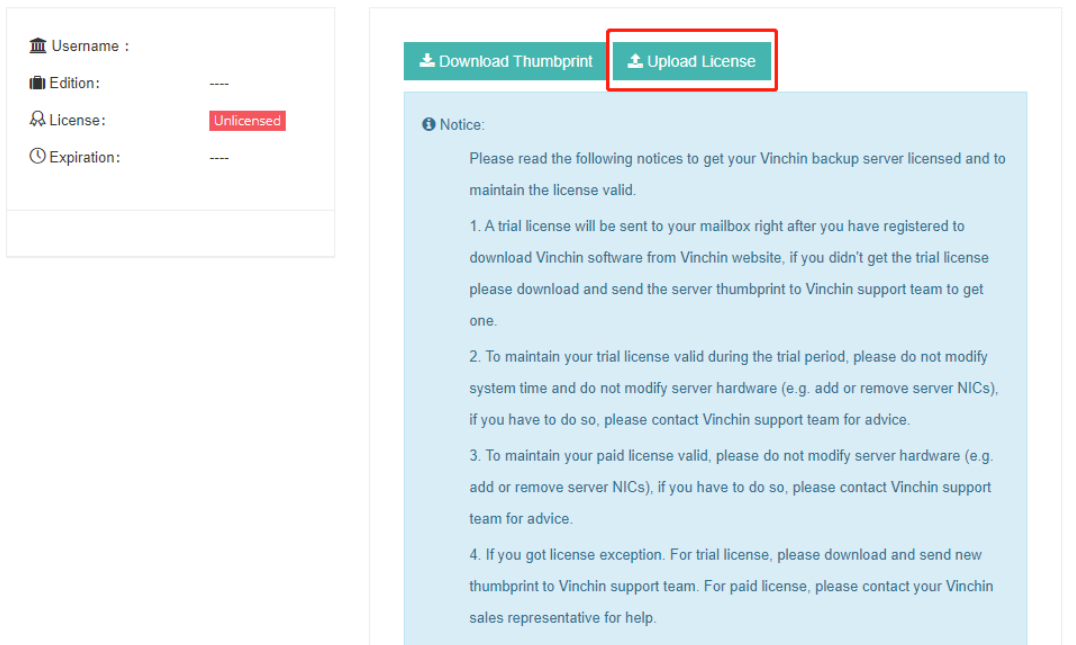
License





Before you start testing Vinchin Backup & Recovery products, please upload the trial license we sent you by email after you have registered to download Vinchin Backup Server installation ISO image. It is a 60-day full featured trial license key.

To upload a license key, please go to **System > System License** page.

Click on **Upload License** to browse the free trial license, and then upload it to activate Vinchin Backup Server for a 60-day evaluation.

License Info



 Username :	----
 Edition :	----
 License :	Unlicensed
 Expiration :	----

[Download Thumbprint](#) [Upload License](#)

Notice:

Please read the following notices to get your Vinchin backup server licensed and to maintain the license valid.

1. A trial license will be sent to your mailbox right after you have registered to download Vinchin software from Vinchin website, if you didn't get the trial license please download and send the server thumbprint to Vinchin support team to get one.
2. To maintain your trial license valid during the trial period, please do not modify system time and do not modify server hardware (e.g. add or remove server NICs), if you have to do so, please contact Vinchin support team for advice.
3. To maintain your paid license valid, please do not modify server hardware (e.g. add or remove server NICs), if you have to do so, please contact Vinchin support team for advice.
4. If you got license exception. For trial license, please download and send new thumbprint to Vinchin support team. For paid license, please contact your Vinchin sales representative for help.

If you wish to buy perpetual license for Vinchin Backup & Recovery, please contact our sales team. Please find our contact information on the last page on this document.



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