



# VINCHIN BACKUP & RECOVERY

Innovative Enterprise Backup Expert



**vinchin**

# VINCHIN BACKUP & RECOVERY

## Datasheet

10+

Platforms Protected

Vinchin Backup & Recovery is an easy-to-use, reliable and cost-effective next-generation enterprise backup solution, designed to protect databases, physical Linux and Windows servers, NAS devices, and multi-types of virtual environment including VMware, Hyper-V, XenServer, RHV/oVirt, OLVM, XCP-ng, OpenStack, Sangfor HCI, Huawei FusionCompute, H3C CAS/UIS, and ZStack.

60+

Countries Implemented

Vinchin Backup & Recovery has been praised by the world's top virtualization vendors and has obtained certification including VMware Ready, Citrix Ready, Redhat certified Technology etc. Enterprises can take full advantages of the certified Vinchin backup software to protect their virtualization environment and reduce project risk.

10000+

Clients

1.6M+

VM Protected



*We trust Vinchin because it is really a reliable and high-efficiency backup software. It not only saved us a lot time on maintenance with incredible easy-to-use console, but also is a robust "backup force" for our business system against disasters.*

Mr. Lee | System Administrator  
China Telecom, CHINA

## Next Generation VM Backup Software

### Supported environments

**VMware vSphere**  
vCenter 5.0 ~ 8.0  
ESXi 5.0 ~ 8.0

**Microsoft Hyper-V Server**  
Microsoft Hyper-V 2012  
Microsoft Hyper-V 2012 R2  
Microsoft Hyper-V 2016  
Microsoft Hyper-V 2019  
Windows 10 (Desktop OS)

**Hyper-V on Windows Server**  
Windows Server 2012  
Windows Server 2012 R2  
Windows Server 2016  
Windows Server 2019

**Citrix XenServer**  
XenServer 6.x ~ 7.x

**Citrix Hypervisor**  
Citrix Hypervisor 8.x

**XCP-ng**  
XCP-ng 7.x ~ 8.x

**Red Hat**  
RHV/oVirt 4.x

**Oracle**  
Oracle Linux Virtualization  
Manager 4.x

**OpenStack**  
Mitaka and later versions +  
Ceph/NetApp/Promise (as  
production storage)

**Sangfor**  
Sangfor HCI 5.x ~ 6.x

**Huawei**  
FusionCompute (KVM)

**H3C**  
CAS E0606~E0730  
UIS E0606~E0750

**ZStack**  
ZStack Cloud 3.5~4.5.1

With the rapid growth of the data in modern world and high requirement of the business SLA, data protection becomes more and more important for most industries to concern, especially the IT companies.

Vinchin Backup & Recovery provides comprehensive data protection for virtualization infrastructure and even deep into application systems. By deploying Vinchin Backup & Recovery in your virtual environment can not only protect all your VMs but also save your budget comparing with other backup solutions.



**#1 Easy-To-Use**



**#1 Cost-Effective**



**#1 Fast Support**



### TOP REASONS TO CHOOSE VINCHIN

#### 100% trustworthy VM backup solution

Having been tested and certified by industry leading virtualization vendors, proves Vinchin Backup & Recovery is a 100% stable and reliable and trustworthy backup software.

#### High Performance backup and DR

Protect your workloads in native, remote and even to the cloud via fast backup and disaster recovery with near zero business interruption.

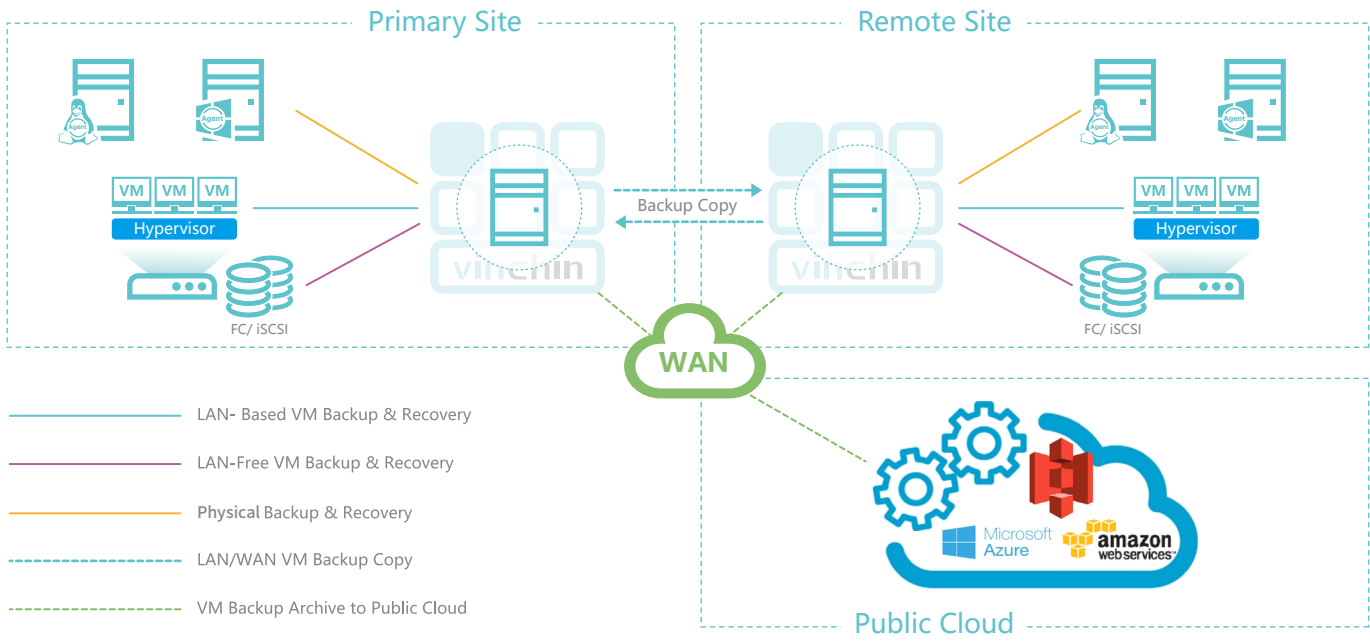
#### Quick response on service request

Responding any service request in 1 hour (American countries in 8 hours), 7 x 24 hours service available. Minimize user waiting time, maximize user experience fluency.

#### Free trial for 60 days and free pre-sale support

60 days free trial of full featured enterprise edition. Provides free installation & configuration support to customer for POC and internal evaluation test. Allows user to fully evaluate the product before buying it.

## Backup & DR Architecture



# BACKUP

## Fast, Reliable Protection For VMs

### Image Based, Agentless Backup

Back up all files, applications and OS configurations in the VM by creating an image of the entire operating system. No need to install any agent on the VM, directly protect the VM through hypervisor.

### Fast incremental backup

CBT and SpeedKit™ are two technologies to achieve fast incremental backup, not only can reduce the amount of time for incremental backup, but also dramatically reduce the backup storage usage.

### LAN-Free backup and recovery

Data can be directly transferred between production storage and backup storage via LAN-Free path (FC, iSCSI, NFS storage area network) without affecting production network load.

### Smart Backup Strategy

You can set up full backup, (forever) incremental backup and differential backup by daily, weekly and monthly to comprehensively protect your critical data. You can also set flexible GFS strategy for long-term backup retention.

### Multithreaded Transmission

When performing a backup or restore job, Vinchin backup & Recovery server will create multiple threads for data transmission of a single job, to greatly improve the overall processing speed during backup and recovery.

### Powerful Data Reduction

Data will be deduplicated and compressed before writing to the backup storage, to reduce backup size. BitDetector™ excludes swap files, partition gap and unpartitioned space during backup.

# BACKUP



## Backup Data Encryption

Before saving backup data to the backup storage, Vinchin Backup & Recovery will also active Vinchin Encrypted Backups technology to encrypt all data. With bank-level encryption algorithm (AES-256 encryption standard) applied, your backups will be secured in a more reliable way. It does not only work for VM backups but also many other scenarios including backup of files, operating systems, databases, and NAS devices.



## Storage Protection (Anti-Ransomware)

As ransomware becomes a top threat for data centers, Vinchin Backup & Recovery also works to give you peace of mind by showing its reliable anti-ransomware capability. Based on real time I/O monitoring, backup data modification by unauthorized applications like ransomware and other malware will directly be denied, realizing true storage protection.



## RHV & oVirt CBT

Vinchin Backup & Recovery fully utilizes the oVirt ImageIO API to take advantage of oVirt CBT (Changed Block Tracking) technology for faster incremental backups in RHV/oVirt environment. When having incremental backups of RHV/oVirt VMs, Vinchin backup system will use the ImageIO API to get a list of changed blocks for each VM, and directly download the changed data blocks from oVirt ImageIO.



## Backup Data Verification (for VMware)

Backup Verification module helps you quickly verify the availability of VMware backups with instant restore and verification lab techniques. You can easily set up an isolated test lab to get the once-off or regular verification job started without affecting any operations in the original backup environment.

## Powerful Offsite & Cloud DR



### Remote Site / Branch Office

You can copy your backup data to remote DR center, or copy your branch office's backup data to HQ using Vinchin Backup Copy. When any disaster occurs to your primary production site, you can directly use the offsite backup copy to recover target VMs, files, operating systems, NAS, or databases to offsite production system. You can also transfer back the well protected backup copy from offsite to onsite, and recover the data you want to onsite production system.



## Public Cloud

You can archive the local VM backups to cloud object storage for long term retention and DR with Vinchin Backup Archive. In case the primary backup got destroyed together with production data, you can transfer back the VM data from archived backup file in the cloud and restore to onsite production system. AWS S3, AlibabaCloud, Azure Blob Storage, Huawei OBS, Tencent COS, Wasabi Cloud Storage, MinIO Cloud Storage and Ceph S3 Storage can be set as cloud archive destination.

# RECOVERY



## Instant VM Recovery

Minimize Your RTO | Guarantee Your Business Continuity

By using Vinchin Backup & Recovery, you can instantly recover the entire VM and all its data from any restore point (no matter it's a full backup, incremental backup or differential backup) without any effectings on the original backup data. Any deduplicated or compressed backups can be recovered. It is an excellent solution to ensure business continuity, minimize the loss of crucial business interruption caused by disaster or system failure.

- Recover TB size VM in 15 secs
- All business recovery in 2 mins
- Apply to any Vinchin supported virtual platform

You can also quickly verify the backup data availability by instantly recover target VM to an isolated area in a matter of minute. Make sure when real disaster occurs, all the VMs can be recovered and data inside is not lost or damaged.



## V2V Migration

Simplify the protection of your hybrid virtual environment

For users who have the need to switch IT workloads or recover data across multiple virtual platforms, Vinchin Backup & Recovery builds the bridge to help you easily reach the goals. To access the original VM data on a brand new virtual platform, a simple few minutes of configurations is all it takes.

- Apply to all Vinchin supported virtual platforms (Hyper-V excluded)
- Automatic, efficient VM data migration
- Instant V2V migration in 15 secs

All V2V migration jobs can be centrally managed via one web console in a super easy way. Adapting to the agility of modern IT infrastructure, you can seamlessly protect your critical data in hybrid virtual environments with V2V feature for improved data availability.



## Full VM Recovery

When any damage or mistaken-delete happens to the backed up VM, you can restore it from multiple points in time rather than just 'the latest backup'. Besides, you can choose to restore single or a group of VMs to the original host or other specified host.



## File Level Recovery

Restore single files inside the VM via Granular Restore feature. With Vinchin Backup & Recovery, user no longer needs to restore entire VM to get specific files, instead, just a few clicks can easily find the target file from the VM backups and restore it quickly.

## High Scalability

### Distributed Backup Infrastructure

For large-scale virtual environments, a distributed backup infrastructure deployment with Vinchin Backup Server and Node(s) can be used to decentralize the workloads of overwhelming backup and recovery tasks. The number of backup nodes can be deployed as per your requirements, and this will not add any extra license fee expenses to your backup and recovery solution.

### Compatible with Diverse Storage

Basing on fully considering the complexity of the user environment, Vinchin Backup & Recovery is compatible with diverse backup storage types including Partition, Local Disk, Local Directory, Logical Volume, NAS (NFS, CIFS) and SAN (Fiber Channel, iSCSI). Meanwhile, deduplication appliances are integratable on Vinchin.

## File Backup

### Supported Environment



Windows



Windows Server



Red Hat Enterprise Linux



ubuntu



CentOS



debian



OS



Besides backing up virtual machines, you can also back up files in your Windows and Linux server using Vinchin Backup & Recovery. With a lightweight file backup agent installed on the target operating system, files inside the server can be backed up and restored easily.

Not only individual files, folders and the subfolders and files inside the folders are all supported for backup and restore.

# VINCHIN BACKUP & RECOVERY



## Multi-threaded Transmission

You can assign up to 32 transmission threads for a single file backup job for improved data transfer efficiency.



## Consistent File Backup

Vinchin applies VSS for Windows backup and volume snapshots for Linux backup to guarantee data consistency. You can easily enable the snapshot feature through a simple click.



## High-speed Massive File Backup

Vinchin supports multi-threaded file scan to shorten the time window for massive file backup scenarios.



## Wildcard Filter

You can backup files more flexibly with user-defined wildcard rule(s). Both wildcard exclusion and inclusion backup are supported.

## Database Backup & Recovery

### Supported Databases



SQL Server: 2008~2019



MySQL: 5.5.62~8.0.28



Postgres Pro: 14.5



MariaDB: 10.5.4~10.10.2



Oracle: 11g~21c / 11g R2&19c (RAC)



PostgreSQL: 12.1~14.2

Vinchin Backup & Recovery delivers comprehensive protection for your MySQL, SQL Server, Oracle Database, PostgreSQL, Postgres Pro, and MariaDB installed on both physical servers and virtual machines. You can easily back them up with minimal production resource consumption, keep them safe on premises, offsite and on cloud, and restore them to any destination you want including the original database, a new database, or a specified folder with the same high efficiency.

The database you want to protect will be transferred directly to the Vinchin backup system under streamlined workflow, with backup speed greatly improved. By combining database protection well with VM-level backups, dual insurance can be given to your virtual environments for the safety of key business data and information systems.



## NAS Backup & Recovery

Easily protect your unstructured data saved in NAS using Vinchin Backup & Recovery with a set of intuitive and advanced features the software provides. Your critical NAS data will be efficiently transferred through NFS/CIFS protocol to anti-ransomware backup storage after simple backup job configurations at the web-based console.



**Automated, incremental backup**



**Multi-threaded file scan and data transfer**



**Effective backup data compression**



**Support restore NAS backups to a file server**

## Physical Server Backup

### Supported OSs



#### Windows:

Windows XP/7/8/10/11  
Windows Server 2003~2022



**LINUX**

#### Linux:

RHEL/CentOS  
6~8(8.0/8.1/8.2/8.3)

# HIGHLIGHTS



### Incremental Backups

Setup backup plans with full backups and incremental backups, or even real forever incremental backups for improved backup efficiency.



### Deduplication & Compression

Deduplicate and compress the server backup data blocks to reduce data size at a great extent, saving backup storage without breaking the integrity of data.



### Valid Data Extraction

Extract valid data blocks from bitmaps of the original system to reduce backup time and storage usage.



### Data Retention Policies

Setup flexible retention plans to maintain Linux/Windows system backups by the number of restore points or the number of days to meet specific requirements.

## Multi-Tenancy Management for MSPs



Designed to simplify the BaaS (Backup-as-a-Service) and DRaaS (Disaster-Recovery-as-a-Service) delivery for managed service providers, Vinchin Backup MSP Edition provides multi-tenant management mode with full features to benefit both you and your customers.



### Free Tenant Adding with No Limits

MSPs can create tenant accounts up to no limit for free, as long as the customers are in need of data protection services. You can easily allocate backup storage resources for each tenant, and monitor the whole backup environment through a single pane of glass.



### Role-Based Access Control

In Vinchin multi-tenant management mode, both MSPs and tenant admins can set restricted access permission on demand for subordinate accounts, so that they can only view and control a certain part of data resources and features to prevent the most critical data from mistaken or malicious deletion, improving data security level.

## #1 Easy-To-Use Web Console

### Easy To Monitor

Modern designed dashboard and Data Visualization helps to monitor all VM backup and recovery related status, e.g. VM protection and storage usage, current/history job running status, backup server/node CPU & memory usage as well as network flow status.

### Easy To Manage

B/S architecture allows you to access to the web console from any where at any time. All backup, restore, copy and archive tasks are configured and performed within this single pane of glass, management can be as easy as expected.



Sign up for a **60-day** trial of Vinchin Backup & Recovery at <https://www.vinchin.com/en/support/vm-backup-free-trial.html>



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