

vinchin x

H3C

Vinchin & H3C: Centralized Backup and Seamless Recovery Solution for H3C

Vinchin and H3C have formed a close partnership to deliver a unified, efficient, and reliable data protection solution for modern IT environments. By combining H3C's virtualization ecosystem with Vinchin's centralized backup platform, the collaboration helps organizations simplify management across sites, enhance data security, and build a solid foundation for stable, scalable business continuity.

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About Vinchin

Vinchin was founded in 2015 and began with a focus on virtual machine backup. Over time we have developed into a backup expert for various types of enterprise workloads - including VMs, databases, cloud and physical servers - with a focus on reliable protection, fast recovery, and easy management.

50+

Industries

170+

Countries

30K+

Clients

6M+

Protected Workloads

Gartner
Peer Insights™

VINCHIN Recognized Higher Performer in Gartner® Peer Insights™ "Voice of the Customer" Report for Enterprise Backup and Recovery Solutions

4.9/5



Willingness to Recommend

4.9/5



Product Capabilities

4.9/5



Deployment Experience

4.9/5



Support Experience



All-in-One Backup Solutions

vmware openstack Red Hat H3C FUSION citrix inspur oVirt	Microsoft Hyper-V KAYTUS PROXMOX SANGFOR ADP-NG ZStack ARCRA ORACLE Linux Virtualization Manager	Windows CentOS Red Hat debian ubuntu Rocky SuSE CentOS Stream Linux ORACLE	TiDB ORACLE DATABASE MySQL PostgreSQL SQL Server MariaDB Postgres	File/NAS/Hadoop aws Azure ceph Tencent Cloud HUAWEI Alibaba Cloud wasabi MINIO	Public Cloud aws HUAWEI CLOUD	App & Container Exchange
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Backup

Verification



Copy

Archive



Recovery

Migration



Data Encryption
(transit & storage)

Vinchin Backup & Recovery

Ransomware Protection



Local Disk



DAS



FC-SAN



IP-SAN



NAS



Object Storage



Cloud Storage



Tape Library



| About H3C

H3C is a global leader in digital and AI solutions, committed to being the most trusted partner for customers' business innovation and digital transformation.



Leveraging an integrated “cloud-networking-security-computing-storage-terminal” stack, H3C delivers one-stop digital infrastructure and platforms - cloud computing, AI, big data, industrial internet, edge computing and unified operations - across industries.

With over 30 years of experience, a presence in 180+ countries and 22 global offices, H3C emphasizes innovation and strong market positions in enterprise networking, servers and HCI. It provides global sales, services and end-to-end technical support.

Why Protecting H3C Virtual Environments Matters?

H3C CAS and UIS consolidate critical data-center functions, such as compute, storage, networking and security virtualization, into tightly integrated platforms. Because they virtualize and centrally manage so many resources, a successful attack or misconfiguration can quickly affect large volumes of data and many services at once, magnifying the impact of breaches, data loss, or downtime; protecting these environments therefore preserves confidentiality, integrity and availability for the workloads they host.



Vinchin × H3C — Data Protection for H3C

Vinchin and H3C have teamed up to offer a unified backup solution optimized for multi-site data centers and branch environments. By deeply integrating H3C CAS/UIS virtualization with Vinchin's backup platform, this collaboration delivers agentless, image-based VM backup and instant recovery, cutting management overhead and enabling centralized backup operations across locations. It also ensures secure, reliable protection through encryption, deduplication and compression, while supporting efficient VM migration, failover, and scalable disaster-recovery deployment. Vinchin also earned the H3Cloud Ready status, confirming high compatibility, performance, and reliability when integrating with H3C infrastructure.

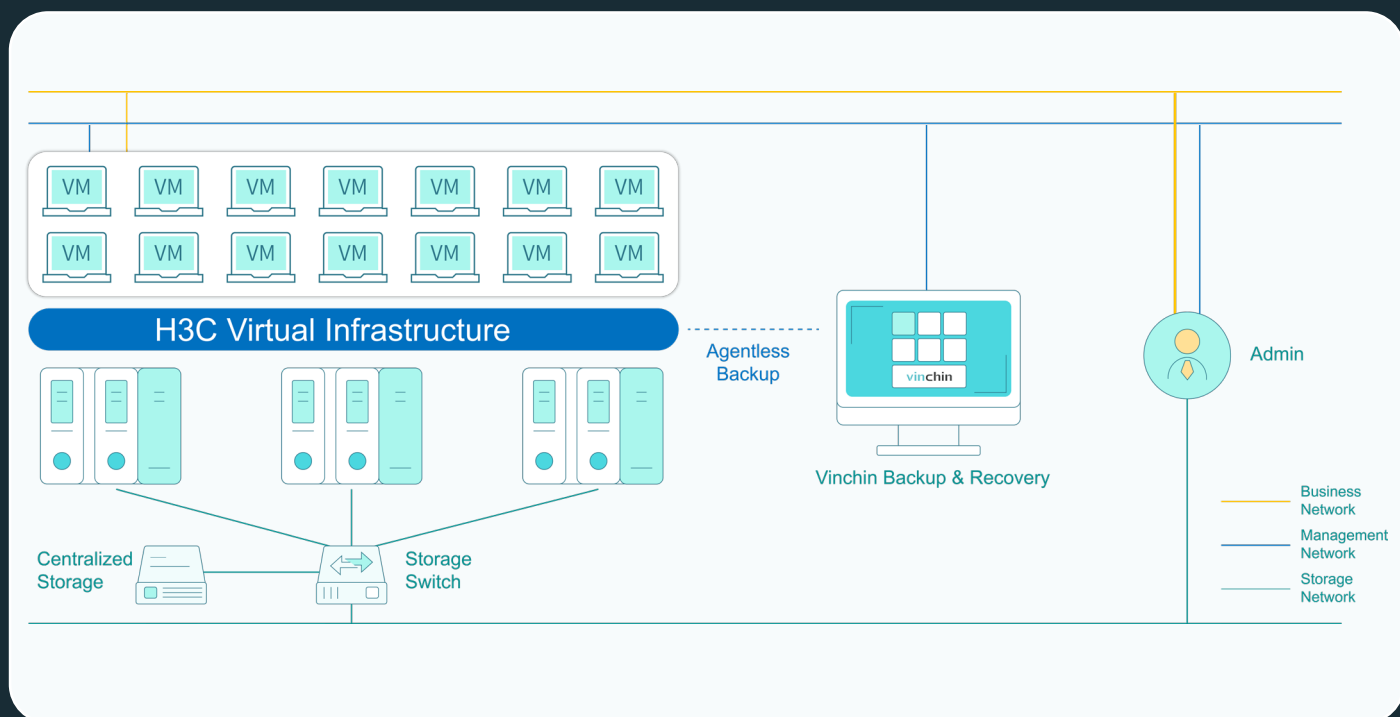


Vinchin Backup & Recovery — High-Performance Backup in H3C Environments

Vinchin's dedicated backup solution for H3C environments provides H3C users with integrated data security protection, from backup and recovery to cross-environment migration and disaster recovery.

Vinchin supports agentless backup of virtual machines by connecting to the H3C platform's native interface, reducing resource consumption in the production environment. In terms of core capabilities, it not only enables rapid backup and recovery within H3C virtualization environments but also supports cross-platform migration of H3C platform workloads to other virtualization environments or public clouds, meeting diverse user needs for architecture upgrades and disaster recovery construction. Furthermore, relying on technologies such as encrypted transmission and immutable storage, it effectively resists security threats such as ransomware, ensuring data integrity and business continuity.

Through a centralized management interface, vinchin simplifies the operation and maintenance process, lowers the operating threshold, and helps users optimize IT operation and maintenance efficiency and reduce downtime losses while ensuring the data security of H3C environments.



Vinchin Provides Agentless, Efficient VM Backup Solution for H3C CAS/UIS

Vinchin provides a comprehensive, easy-to-use, and efficient data protection solution for H3C CAS/UIS environments. It can back up VMs in an agentless manner, simplifying deployment and operation, and reducing resource overhead and maintenance costs.

Capture Method	<p>Agentless Backup</p> <p>Capture VM images via hypervisor APIs — no in-guest agents</p>	
Backup Strategies	<p>Forever Incremental Backup</p> <p>One full backup, then only incremental changes to save storage</p> <p>Schedule-Based Backup</p> <p>Automatically runs at predefined times or intervals to ensure data is regularly saved.</p>	<p>Rolling backup</p> <p>Continuously replaces the oldest backup with the newest to maintain a fixed number of recent copies.</p>
Backup Data Archival	<p>Archive to Tape</p> <p>Stores backup data on magnetic tape media for long-term offline or cold storage.</p>	<p>Cloud Archive</p> <p>Archiving backup copies to the cloud like AWS S3 and Azure Blob.</p>
Efficiency & Extraction	<p>Deduplication & Compression</p> <p>Eliminate duplicate data and compress backups to reduce storage usage, speed transfers, and lower costs</p>	<p>Deep Effective Data Extraction</p> <p>Scans storage at a low level to identify and extract only the actually used/valid data blocks or files for more efficient backups.</p>
Recovery & Compatibility	<p>Full VM Recovery</p> <p>Restore an entire VM to original or alternate target.</p> <p>Cross-Platform Recovery</p> <p>Restore and migrate workloads across hypervisors and between virtual and physical environments (V2V, P2V, C2V, V2C).</p>	<p>Granular Recovery</p> <p>Recover individual files/folders without full VM restore, download directly, restore to the VM, or share via a file server.</p> <p>Instant Recovery</p> <p>Allows data to be restored and become usable immediately after a failure.</p>
Security & Restore Automation	<p>Data Encryption</p> <p>Encrypts backup data using AES-256 or SM4 algorithms to protect confidentiality at rest and using RSA/SM2 algorithms in transit.</p> <p>Merged Restore</p> <p>During recovery, incremental/differential backups are merged into a single consistent state before or while restoring.</p>	<p>Auto Power-on After Recovery Completes</p> <p>Automatically boots the recovered system or VM as soon as the restore process finishes.</p>

Production-Safe, Verified, Recoverable & Scalable Data Protection

Vinchin's advanced features are designed to help businesses ensure business continuity in a more controlled and lower-risk manner. By validating recovery capabilities without impacting the production environment, improving data integrity and tamper resistance, and optimizing backup processes and retention strategies, it makes recovery predictable and operations easier.

DR Testing	<p>Built-in DR Lab</p> <p>Run sandboxed recovery tests without affecting production</p>	
Backup Validation	<p>Recoverability Verification</p> <p>Automated integrity + boot tests to confirm restorability.</p>	<p>Integrity Check</p> <p>Verifies that data is accurate, complete, and uncorrupted.</p>
Data Protection	<p>Backup Storage Protection</p> <p>Safeguard backup repositories against alteration or deletion.</p> <p>Retry Policy</p> <p>Defines how and when failed backup or transfer operations are retried (intervals, max attempts).</p>	<p>Ransomware Protection</p> <p>Use immutable backups and WORM storage to prevent tampering and enable ransomware recovery.</p>
Transfer Optimization	<p>Multithreaded Transmission</p> <p>Use parallel threads to speed data transfer.</p>	<p>Throttling Policy</p> <p>Control bandwidth per job to limit production impact.</p>
Snapshot Flexibility	<p>Pre-Create Snapshot</p> <p>Creates a snapshot in advance so the backup can start immediately without waiting for snapshot creation.</p> <p>Parallel Snapshot</p> <p>Takes multiple snapshots at the same time to speed up backup of many volumes or VMs.</p>	<p>Serial Snapshot</p> <p>Takes snapshots one after another in sequence to avoid resource conflicts.</p>
Retention Policy	<p>GFS Retention</p> <p>Uses a Grandfather-Father-Son schedule (daily/weekly/monthly) to keep restore points at different time granularities.</p>	<p>Integrity Check</p> <p>Verifies that data is accurate, complete, and uncorrupted.</p>
Offsite & Cloud	<p>Offsite Copy</p> <p>Keeps a copy of backups at a geographically separate location for disaster recovery.</p>	<p>Cloud Backup</p> <p>Sends backup data to a cloud storage service for offsite storage, scalability, and durability.</p>

Customer Benefits



Simplified Disaster Recovery

Whether it's public cloud, private cloud, hybrid cloud, or data center-hosted business systems, databases, and unstructured data, Vinchin can provide unified disaster recovery management. Features such as compression, deduplication, deep effective data extraction, and forever incremental backups minimize backup data volume while ensuring data integrity and recoverability, effectively saving backup storage costs.



Diverse Storage Support

To meet the actual needs of H3C CAS/UIS users, Vinchin supports various types of storage devices, including local disks, local directories, logical volumes, Fibre Channel, iSCSI, NFS, CIFS, etc., satisfying the storage deployment needs of different user environments. Furthermore, different types of storage devices can be used simultaneously without worrying about incompatibility issues between storage devices and backup data.



Efficient Virtual Machine Migration

With the increasing demand for VMware replacements, Vinchin's cross-platform V2V migration function improves virtual machine migration efficiency and reduces unknown risks during migration. In terms of compatibility, Vinchin supports over 95% of virtualization platforms on the market, including VMware, Hyper-V, Proxmox, XenServer, OLVM, XCP-ng and H3C CAS/UIS.



Multi-tenant Backup Management

For large providers using H3C CAS/UIS virtual machines as cloud services, Vinchin supports multi-tenant mode and integration with the HCI cloud platform. Cloud service providers can use multi-tenant mode to provide backup services to their users, and data is isolated between tenants, ensuring no impact on the backup systems of any party. This facilitates unified management by the provider and provides a separate tenant billing module, making it the preferred backup software for large service providers.

Customer Story



SWCorp Malaysia

Perbadanan Pengurusan Sisa Pepejal dan Pembersihan Awam (SWCorp) is a Malaysian government agency. It administers and enforces laws on solid waste management and public cleaning and matters related thereto. The role of the Corporation is to ensure more efficient, integrated solid waste management and public cleaning services while providing better satisfaction to users in terms of solid waste management and public cleaning services.

Customer Needs

- Reliable V2V capability to migrate VMware workloads to H3C.
- Application consistent MariaDB backups ensuring reliable, successful restores.
- Instant VM recovery to minimize RTO and business disruption.
- Seamless replacement of Veeam/Veritas across 4 hosts and 99 VMs.
- Comprehensive technical support, validation testing, and migration guidance.

Vinchin's Solution

- Provide native V2V from Vinchin backup data enabling direct VMware to H3C VM conversion with preserved VM metadata and disk mapping and network settings.
- Ensure application consistent MariaDB backups for reliable point in time restore and integrity verification.
- Offer fast instantaneous VM restore capability allowing VMs to run directly from backups on H3C hypervisor, reducing RTO to minutes.
- Centralized management console to orchestrate backup, restore and migration across hosts and large quantity of VMs, with automated scheduling.
- Provide professional technical support including migration, verification testing, and hands on assistance during cutover, post migration monitoring.

Customer Story



Daikin Malaysia Sales and Service Sdn. Bhd.

Daikin Malaysia Sales and Service Sdn. Bhd. (DMSS) is Malaysia's leading air-conditioning specialist, providing HVAC products, R&D and after-sales services. It develops energy-efficient, ozone-friendly solutions and runs a major regional R&D centre.

Customer Needs

- Migrate up to 100 VMs from legacy DC to H3C.
- Protect existing H3C workloads and ensure post-migration backup continuity.
- Enable cloud recovery path: restore H3C workloads into AWS.
- Backup AWS instances separately; support EC2-level consistent backups.
- Require technical assistance, validation testing and migration support.

Vinchin's Solution

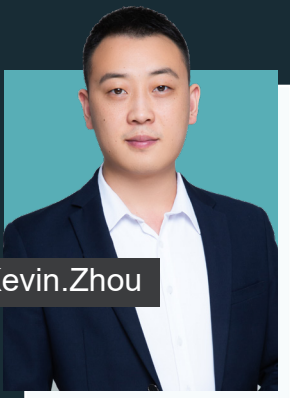
- Enables seamless V2V migration from VMware and Hyper-V to H3C, fully preserving virtual machine configurations.
- Provides advanced backup for H3C environment, supporting enterprise-grade features such as incremental backups, automatic scheduling, and deduplication to improve storage efficiency and availability.
- Supports backups to cloud object storage (e.g., Amazon S3, Microsoft Azure Blob, Wasabi) to meet off-site disaster recovery and long-term archiving needs.
- Provides agentless backup solutions for AWS EC2, reliably and efficiently protecting cloud instances and supporting on-demand recovery.
- Offers professional services and technical support, covering deployment and migration assistance, troubleshooting, and daily operation and maintenance support.

Summary

H3C CAS is a data-center virtualization platform that converges and delivers compute, storage, network, and security virtualization resources, efficiently integrating data center infrastructure. H3C UIS is an innovative hyper-converged product for data centers that seamlessly integrates compute virtualization, storage virtualization, and operations-and-monitoring management software technologies.

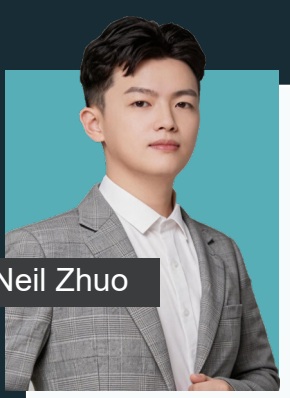
With the superior capabilities of Vinchin's virtual machine data backup, H3C CAS/UIS users can ensure data protection and business continuity, eliminating concerns about outages, corruption, or permanent data loss while meeting stringent RTO and RPO requirements.

Authors



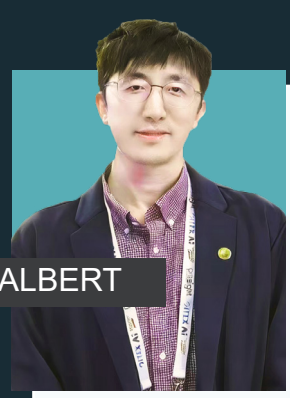
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Find more Features of Vinchin Backup & Recovery:

<https://www.vinchin.com/H3C-backup.html>

Find more Features of H3C:

<https://www.h3c.com/en/>

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