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CUSTOMER STORY

"Vinchin simplified our backups, enabled fast cross-platform VM migration, and ensured real-time disaster recovery—essential for maintaining uptime in our complex virtual environment."

MCC 中国五冶集团有限公司
CHINA MCC5 GROUP CORP.,LTD.

Others
VMware

IT Manager
China MCC5 Group Corp.,Ltd.

Business Challenge

China MCC5 Group Corp.,Ltd. established 1948, integrates engineering contracting, prefabrication, real estate, and investment. It holds top-tier construction, design, and surveying credentials, plus national high-tech and IP honors. With a national technology center and leading prefab R&D base, it offers one-stop consulting-to-maintenance services for civil, municipal, transport, and industrial projects, completing thousands of key projects.

With branches nationwide, its HQ IDC data center runs a VMware vSphere virtualization platform hosting hundreds of VMs for PMS, BIM, ERP, OA, email, archives, and monitoring systems. Back-end databases support daily access to gigabytes of drawings and supervision data. Regional subsidiaries connect via MPLS dedicated lines to the HQ, forming a centrally managed, regionally interconnected IT architecture that meets stringent requirements for real-time data performance and collaborative efficiency in high-end civil, municipal, and industrial construction.

As business volume grows, traditional backups can't sustain the environment. With only 1–2-hour daily windows, full scans of massive data often time out and overload network and storage. VMware VMs in fixed formats across locations require manual VMDK-to-QCOW2 conversions for migrations and drills, wasting time and risking errors. Lacking true real-time replication between HQ and remote sites, failures depend on the last full backup, yielding multi-hour RPOs and RTOs that jeopardize continuity.

Vinchin Solution

To completely eliminate the above pain points, China MCC5 Group Corp.,Ltd. introduced Vinchin's brand-new virtualization backup and disaster recovery solution.

Within the daily backup window, Vinchin Backup & Recovery automatically identifies and transfers changed data through advanced CBT technology, greatly reducing the pressure on network bandwidth and storage devices; at the same time, combining scheduled full, incremental, and differential multi-level backup strategies, it enables efficient backup of massive data within limited time without affecting production operations. The built-in one-click V2V conversion feature completely breaks down barriers between different image formats such as VMDK, VHD, and QCOW2, allowing free migration and recovery between mainstream platforms like VMware, Hyper-V, and KVM/Proxmox without any manual operation, improving operation and maintenance efficiency and security.

More critically, its real-time remote replication and automatic failover mechanism enable dual-active operation between the headquarters and multiple remote data centers. If either end fails, the system can seamlessly switch to the standby environment within seconds, ensuring zero interruption of critical services such as project management, BIM collaboration, and monitoring and security. Comprehensive multi-tenant permission management and isolation, as well as an independent recovery drill sandbox feature, provide the Group's headquarters and subsidiaries' maintenance teams with a visual, controllable, secure, and reliable environment for drills and validation, fully safeguarding data security and business continuity throughout the full lifecycle of engineering projects from design to operation and maintenance.

»»» Result

Vinchin's solution combines CBT incremental backup, multi-level scheduling, one-click V2V conversion, real-time replication, automatic failover, and secure sandbox testing. These features greatly improve backup efficiency, simplify operations, and ensure data security and uninterrupted business continuity for China MCC5 Group Corp.,Ltd.

Question? Need support?

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