

How Can HyperBDR Reduce Disaster Recovery Costs by 50%-90%?



As digital transformation continues to deepen, an increasing number of enterprises are choosing to migrate their data and applications to cloud platforms. However, while enjoying the flexibility and scalability that cloud computing offers, companies also face new security challenges. In particular, ransomware and human errors remain significant threats that IT departments urgently need to address.

To ensure data security and business continuity, [an increasing number of companies are beginning to focus on cloud-based disaster recovery solutions](#). Although various solutions are available on the market, most still suffer from high costs and complex deployments.

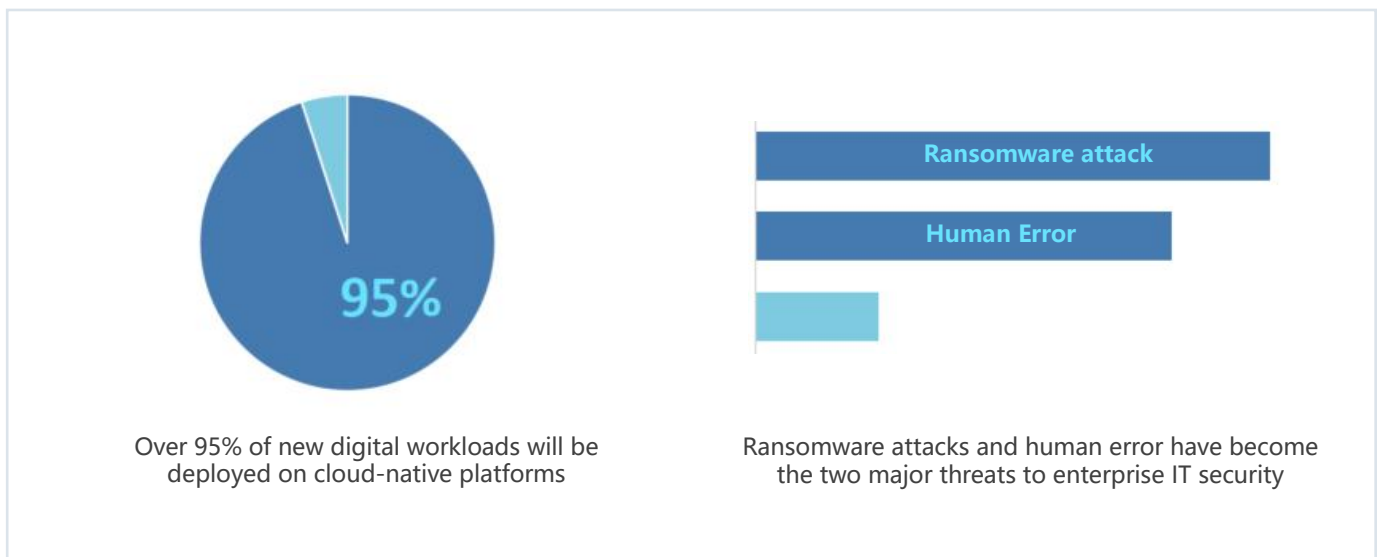
I . DR Needs in the Context of Cloud Computing

As enterprises move to the cloud, the transformation of IT infrastructure has brought about a more flexible business operation model. However, this transformation is also accompanied by new challenges : [According to Gartner's forecast^{\[1\]}, by 2025, more than 95% of new digital workloads will be deployed on cloud-native platforms ; More than 85% of corporate organizations will accept the cloud-first principle , and if they do not use cloud-native architecture and technology, they will not be able to fully implement their digital strategy.](#)

In this context, [ransomware attacks and human errors have become the two main threats to enterprise IT security](#). According to the 2024 Data Threat Report released

[1] "Gartner Says Cloud Will Be the Centerpiece of New Digital Experiences", Gartner, 10 Nov 2021.
<https://www.gartner.com/en/newsroom/press-releases/2021-11-10-gartner-says-cloud-will-be-the-centerpiece-of-new-digital-experiences>

by cybersecurity giant Thales^[2], 42% of respondents worldwide believe that ransomware and malware is the fastest growing threat type in 2024. In addition, 34% of enterprises in the report believe that human error is still the root cause of data breaches. These dual threats compel enterprises to seek more flexible and efficient disaster recovery solutions to ensure rapid business recovery in the event of a disaster.



II. Limitations of Current Cloud-Based DR Solutions in the Market

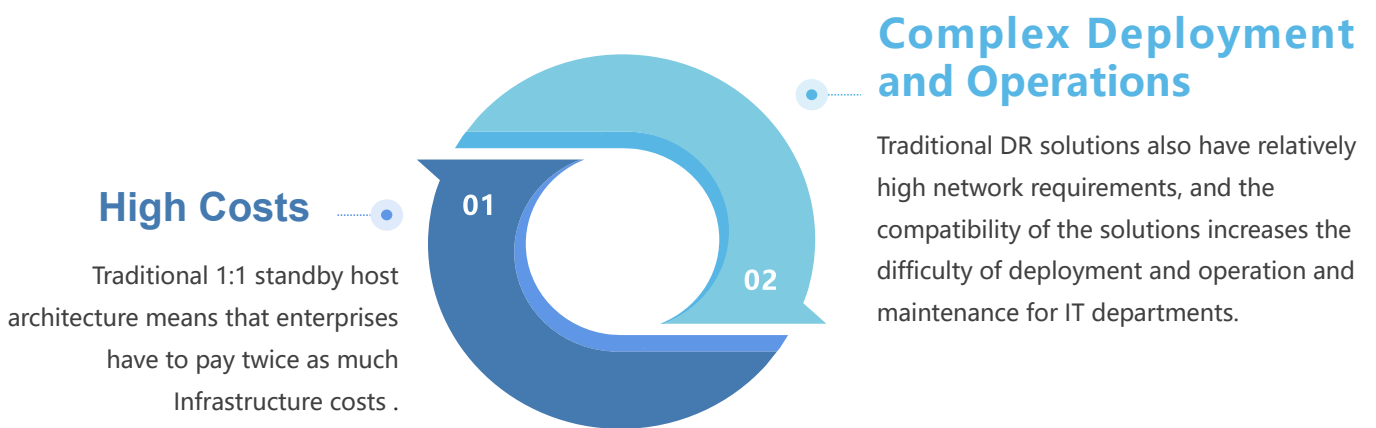
Although there are various cloud-based disaster recovery solutions available, most still rely on the traditional 1:1 backup host architecture. This conventional model not only perpetuates high costs but also introduces complex deployment and operational issues.

High Costs

Many cloud-based disaster recovery solutions still require configuring the same

[2] "2024 Thales Data Threat Report", Thales, 21 Mar 2024.
<https://www.thalesgroup.com/en/countries-asia-pacific/india/news/2024-thales-data-threat-report-ranks-ransomware-attacks-top>

amount and specifications of hardware for backup hosts, meaning enterprises must pay double the infrastructure costs required for normal operations. Furthermore, these solutions often encounter compatibility issues when integrating cloud services, increasing deployment difficulties. For example, while VMware Site Recovery Manager (SRM) can provide disaster recovery solutions for virtual machines, it still requires enterprises to prepare hardware facilities for backup sites in advance, leading to high overall costs.



Complex Deployment and Operations

Traditional disaster recovery solutions often require IT departments to possess high technical capabilities to manage data synchronization and switching between primary and backup sites. Many of these solutions also have relatively high network requirements, necessitating continuous bandwidth and stable network connections, which increases the difficulty for enterprises to implement disaster recovery.

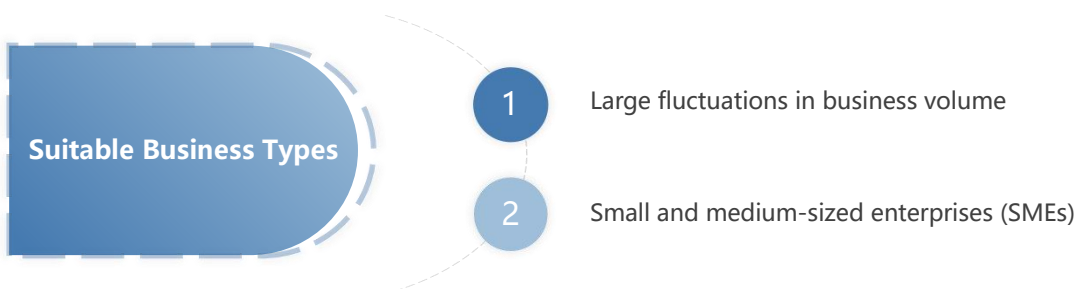
For instance, while Zerto offers robust disaster recovery and data protection capabilities, its configuration and management are complex, requiring enterprises to invest substantial manpower and time during implementation, which undoubtedly poses a heavy burden for small and medium-sized enterprises.

III. Implementation and Innovations of Hostless DR

In response to the limitations of traditional solutions, OnePro Cloud has launched the HyperBDR cloud disaster recovery product along with its corresponding Hostless Disaster Recovery technology. This innovative design fundamentally alters enterprises' perceptions of disaster recovery, offering a more efficient and cost-effective solution.

> On-Demand Activation of DR Environments

In traditional disaster recovery architectures, the infrastructure of backup sites must always be online to ensure real-time data synchronization and rapid switching during disasters. Hostless disaster recovery technology stores backup data in the cloud and automatically schedules virtual machines or cloud resources to temporarily activate the disaster recovery environment when a disaster occurs.

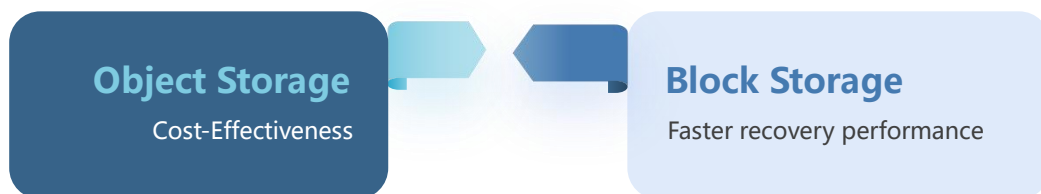


This means that computing resources only need to be allocated when a disaster happens, saving significant operational costs. **This on-demand activation of disaster recovery environments is particularly suitable for enterprises with fluctuating business volumes or small and medium-sized enterprises**, as they can avoid making large-scale upfront investments in disaster recovery environments and only call upon resources based on business needs when necessary, greatly reducing cost pressure.

> Supports Both Block Storage and Object Storage Modes

The Hostless disaster recovery solution of HyperBDR supports both block storage and object storage modes.

In block storage mode, enterprises can **achieve faster recovery performance**, while in object storage mode, the disaster recovery process requires almost no computational resources, **significantly reducing costs**. This flexibility allows enterprises to choose storage modes based on actual needs to achieve the best cost-effectiveness.



> Snapshot-Based Incremental Backup

HyperBDR's hostless disaster recovery technology uses incremental snapshot technology to quickly capture data changes.

Enterprises can customize backup strategies without affecting the production environment, reducing storage requirements and minimizing network bandwidth consumption.

> Automated Recovery Process

When a disaster occurs, HyperBDR's **boot-in-cloud technology** supports a **rapid one-click recovery process**. By dynamically invoking cloud APIs, enterprise business hosts can be automatically created in the cloud according to predefined rules, enabling businesses to quickly recover operations while

minimizing manual intervention. This automated recovery mechanism allows enterprises to complete data recovery and business restarts within minutes during a disaster, significantly enhancing business continuity.

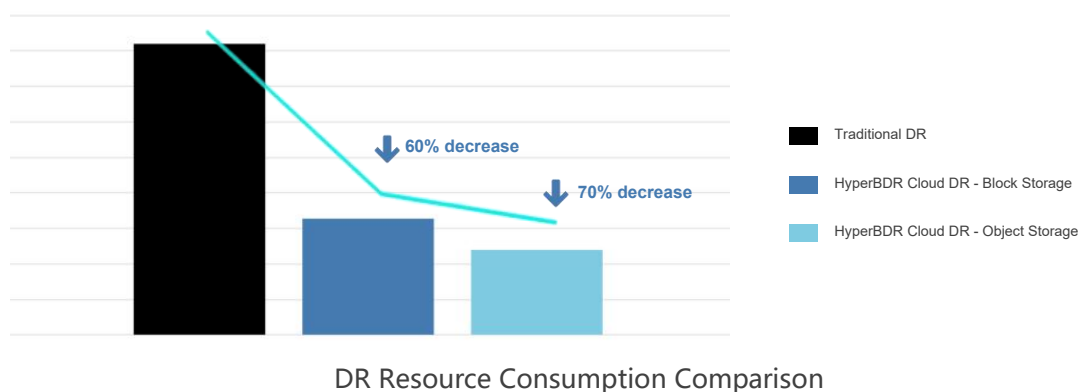
IV. Customer Benefits of Hostless DR

The Hostless disaster recovery technology brings significant benefits to enterprises, especially in terms of cost, flexibility, and business continuity.

> Reduce DR Costs by 50%-90%

By eliminating the hardware requirements for backup hosts and reducing the consumption of computing resources, HyperBDR's hostless disaster recovery solution reduces disaster recovery costs by more than 50%. Companies no longer need to pay for two sets of infrastructure, greatly easing their financial burdens.

Where does this data come from? We selected a common configuration and host count: 10 hosts with 4 cores and 8 GB of RAM each (with 500 GB system and data disks), targeting disaster recovery on Huawei Public Cloud - Hong Kong region. Assuming a daily data change rate of 10% per host and a maximum of 10 backup snapshots per host, the chart below compares disaster recovery resource consumption between HyperBDR's disaster recovery model and traditional models under these conditions.



> Simplified Single-Platform Deployment & Management

The hostless disaster recovery solution enables enterprises to deploy and manage disaster recovery systems with greater simplicity. Companies can easily configure and monitor the entire disaster recovery environment through a user-friendly management interface on a single platform. This streamlined process enables even small and medium-sized enterprises to efficiently implement and manage their disaster recovery strategies.

> Enhanced Business Continuity and DR Capabilities

The automated recovery capabilities of hostless disaster recovery enable enterprises to quickly resume operations in the event of a disaster. Compared to traditional solutions, HyperBDR's hostless disaster recovery can shorten recovery time objectives (RTO) to just a few minutes, ensuring businesses return to normal operations as quickly as possible. This enhancement in business continuity helps enterprises gain an advantage in fierce market competition.

> Greater Flexibility in Scalability

As the business of an enterprise continues to grow, HyperBDR's host-free DR solution can easily adapt to changes in business needs. Enterprises can flexibly adjust storage and computing resources according to actual conditions, expand or reduce backup capacity as needed, and maximize the advantages of cloud resources.

V. Conclusion

In the wave of digital transformation, the choice of disaster recovery solutions has become increasingly important for enterprises.

HyperBDR's hostless disaster recovery technology provides an efficient, cost-effective, and easy-to-manage disaster recovery solution through its innovative architecture and flexible deployment methods. Whether for small and medium-sized enterprises or large corporations, this technology not only significantly reduces disaster recovery costs but also enhances business continuity, ensuring quick recovery in the event of a disaster. Through hostless disaster recovery, enterprises can achieve data security and reliability, positioning themselves advantageously in the digital age.

