Extreme TCO Reduction

No computing resources are consumed during data replication, only need to pay for object storage. Reducing backup costs by over 90% compared to traditional disaster recovery solutions.

Outstanding RTO

Due to the technical advantages of HyperBDR, it can fully leverage its Boot in Cloud technology feature, enabling HyperBDR to achieve workloads recovery on cloud in several minutes when disaster occurs.

Disaster Recovery Solution, from Physical Machine, VMware Hyper-V, KVM, Xen to Huawei Cloud, using hostless data sync technology from OnePro.

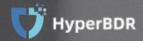
Introduction of HyperBDR

HyperBDR is a cloud-native business-level Disaster Recovery tool that fully utilizes cloud-native capabilities to improve DR efficiency, flexibility and reduce TCO. It adopts block-level full incremental replication technology with high backup efficiency; the latest Hostless Data Sync Technology uses no host during data replication which makes Disaster Recovery data storage costs extremely low.

With its cloud-native orchestration capabilities and the "Boot-in-Cloud" technology, HyperBDR supports one-click restoration of workloads to an available state on the cloud when disaster occurs, ensuring business continuity and high availability. HyperBDR supports more than 20 clouds with 40+ versions.

HyperBDR's scenarios

HyperBDR Cloud Disaster Recovery is a cloud-native business-level Disaster Recovery tool that can be used in various business scenarios, including Disaster



between traditional IDC physical and virtualization environments and the cloud, as well as between public, private and dedicated clouds. HyperBDR can quickly recover Windows, CentOS, Red Hat Enterprise Linux (RHEL), SUSE Linux Enterprise Server (SLES), Ubuntu and other systems to the target platform and provide continuous business protection.

Benefits of using HyperBDR Cloud Disaster Recovery

1. Lower TCO of cloud DR compared to traditional DR

Unlike traditional Disaster Recovery methods, which require a duplicate set of infrastructure correspond to the production centre's potential failure or malfunction, which may take months or even years to build and include costs such as data centre operations, servers, storage devices, security equipment, network equipment, electricity expenses... etc. HyperBDR with Huawei Cloud can help enterprises save the above-mentioned operation, equipment, construction and maintenance costs.

Support automated DR, one-click launch of workloads in the cloud, hostless data sync mode reducing the DR costs

In the configuration stage of traditional Disaster Recovery model, the Disaster Recovery platform host must be started in advance for data synchronization, the configuration process is complex and wastes of resources. HyperBDR has completed automation integration with Huawei Cloud, no host needs to be started on the target platform during the routine data protection process.

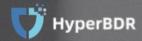
Instead, the system data, including the operating system, applications and data are stored in object storage, reducing storage costs by 95% compared to traditional DR. Its self-developed Boot-in-Cloud technology automatically creates a protected host on Huawei Cloud and activates business operations with one click when a disaster occurs.

3. Pay-as-you-go, low cost with high scalability

HyperBDR transforms the traditional procurement model into a delivery model that uses Huawei Cloud services. The resources are available immediately, enabling quick deployment and the shortening the process of cloud DR construction significantly, making it a universal service. During Disaster Recovery, enterprises only need to pay for the storage resources, do not occupy computing resources and the Disaster Recovery storage cost is extremely low. In the event of a drill or failover, cloud resources can be paid for by usage.

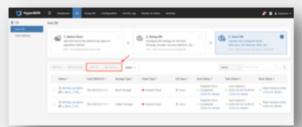
4. Minute-level RPO and RTO

Enterprises can customize snapshot policies through HyperBDR based on the actual needs of their business. HyperBDR will perform continuous data replication based on the set snapshot policy. When a disaster occurs, customers can use HyperBDR to activate business operations with one click on Huawei Cloud and recover to the nearest snapshot time point, achieving minute-level RPOs and RTOs.



5. Three-step wizard design, easy operation

Traditional backup and Disaster Recovery deployment processes are complex. First, a host cluster of the same scale and specifications as the source needs to be created at the target end. It takes about 20 steps to create a host, including but not limited to basic configuration, network and security group selection and system configuration. The more the hosts, the longer it takes and the higher error rate for manual operations. HyperBDR uses a simple 3-step wizard design for Disaster Recovery deployment: [1. Select Host -> 2. DR **Configuration -> 3. Start DR]**. Operations personnel without much technical skills can operate it easily, greatly reducing the threshold for cloud Disaster Recovery and improving the efficiency while avoiding human error.



6. Cloud-based drills ensure uninterrupted operations

Upon the completion of the Disaster Recovery solution deployment, customers can conduct regular Disaster Recovery drills based on their actual needs to ensure the high availability of their Disaster Recovery plans. Leveraging the highly automated features of HyperBDR and its ability to launch business operations in the cloud without a host, customers can launch Disaster Recovery drills with just one click.

They can then recover their business to any specified point in time based on custom snapshot policies, restoring the corresponding system data and status without affecting the production environment.

Enterprises can also take full advantage of their Disaster Recovery environment to carry out drills, testing, simulation and retrospective analysis of security incidents, enhancing the utilization of their Disaster Recovery resources.

7. Support Disaster Recovery of different architecture platforms to Huawei Cloud

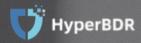
With the development of cloud computing, enterprises are gradually transitioning their business architecture from a single traditional on-premise architecture to a more complex hybrid cloud architecture; the flow of data between different architectures is hindered. HyperBDR is compatible with different architectures, including physical machines, virtual machines, hyper-converged platforms, public clouds and private clouds. It supports Disaster Recovery from different architecture platforms to Huawei Cloud, enabling data mobility.

Technical Advantages of HyperBDR

1. Boot in Cloud Technology

HyperBDR utilizes object storage to store backup data, making full use of APIs available on the Huawei Cloud platform for resource creation, retrieval, management and orchestration. This enables the rapid construction and deployment of Huawei Cloud-based Disaster Recovery applications, achieving true cloud-native Disaster Recovery.





Enterprises can achieve the following with HyperBDR cloud Disaster Recovery tool:

- From traditional IDC Disaster Recovery to Huawei Cloud
- From VMware Disaster Recovery to Huawei Cloud (supporting agentless mode on the source platform).
- From OpenStack Disaster Recovery to Huawei Cloud (supporting agentless mode on the source platform).
- From other clouds Disaster Recovery to Huawei Cloud.
- Cross-availability zone Disaster Recovery within Huawei Cloud.
- Cross-region Disaster Recovery within Huawei Cloud.

2. Intelligent Adaptation

Due to differences in underlying architectures between traditional IDCs, virtual machines and clouds; compatibility issues may arise during Disaster Recovery between the source and target infrastructures and applications. HyperBDR has completed intelligent driver adaptation for multiple architecture platforms. During the Disaster Recovery configuration process, no manual intervention is required for driver repairs, achieving a highly automated Huawei Cloud Disaster Recovery deployment and improving the efficiency and success rate.

3. Hostless Data Sync Technology

Unlike traditional Disaster Recovery,
HyperBDR does not require the use of target
platform hosts to synchronize data during
Disaster Recovery. Instead, it innovatively
slices the block data of the source-side host
and stores it in Huawei Cloud object storage.
Only when restoring is required, the slices
are combined into blocks and leveraging
the cloud-native capability to restore them
into the hosts. This approach means that
Disaster Recovery no longer consumes any
computing resources on the target platform,
reducing Disaster Recovery storage costs
significantly.

In addition, using object storage for data transmission in the Huawei Cloud environment does not incur any additional fees, resulting in a huge reduction in Disaster Recovery TCO.

4. Group Disaster Recovery

Based on cloud-native orchestration capabilities, HyperBDR can support the recovery of machine groups which makes Disaster Recovery management more efficient. Enterprises can manage and orchestrate machine groups based on business type, business importance level and location. In the event of a disaster, enterprises can directly launch the affected machine group or gradually launch applications according to their importance, improving Disaster Recovery efficiency, reducing RPO and RTO, minimizing enterprise losses.