



Huawei OceanProtect Data Protection

Overview

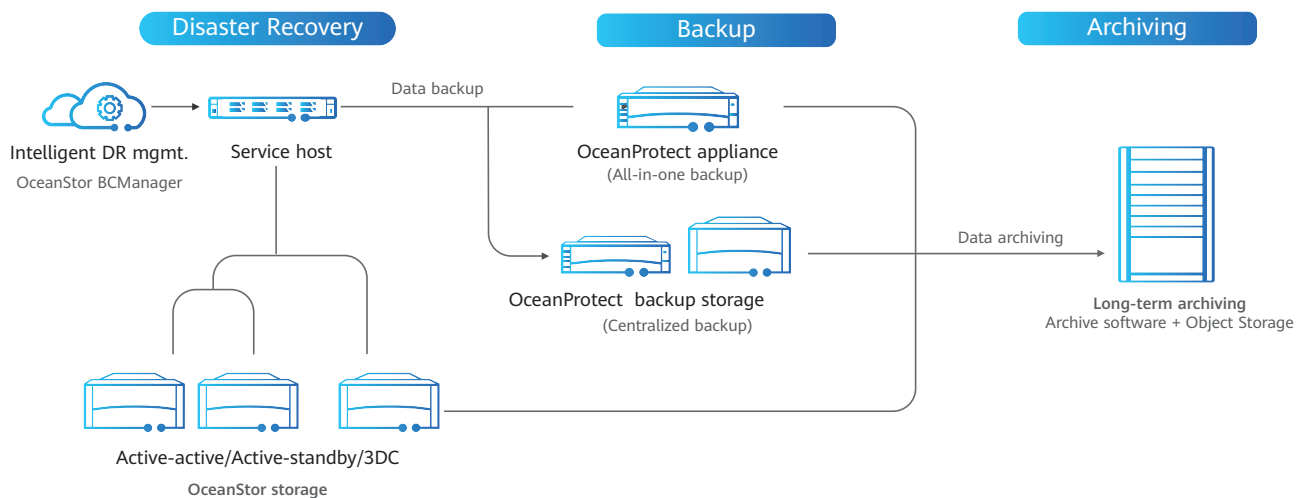


With the acceleration of digital transformation in various industries, we are entering a fully connected, intelligent world. The huge growth of diversified service data is making comprehensive protection essential for key data throughout its lifecycle.

Huawei OceanProtect provides disaster recovery, backup, and archiving capabilities for a full-lifecycle data protection solution. Data

tiering is available to facilitate disaster recovery (DR) for all hot data, quick backup and restore of warm data, and warm archiving of cold data. What's more, Huawei OceanProtect supports always-online services, zero data loss, and long-term data retention for regulatory compliance, safeguarding the intelligent world.

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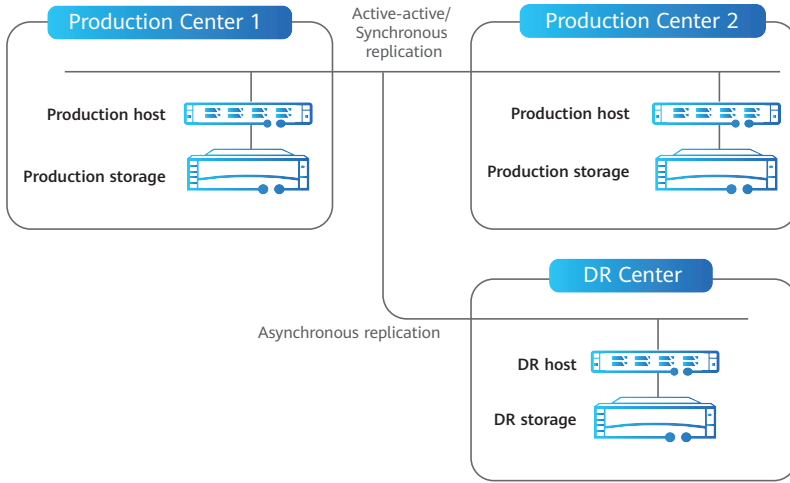


Disaster Recovery: Comprehensive DR for Service Continuity

Overview

Huawei is committed to providing customers with multi-layer, extensive DR solutions that cover everything from underlying data and upper-layer applications, and from single data center to multiple data centers. With wide experience in the DR field, Huawei provides multiple best-in-class solutions, such as local high availability (HA), active-passive, active-active, and 3DC DR, to fully meet system construction standards in various industries, ensuring service continuity.

Architecture



Highlights

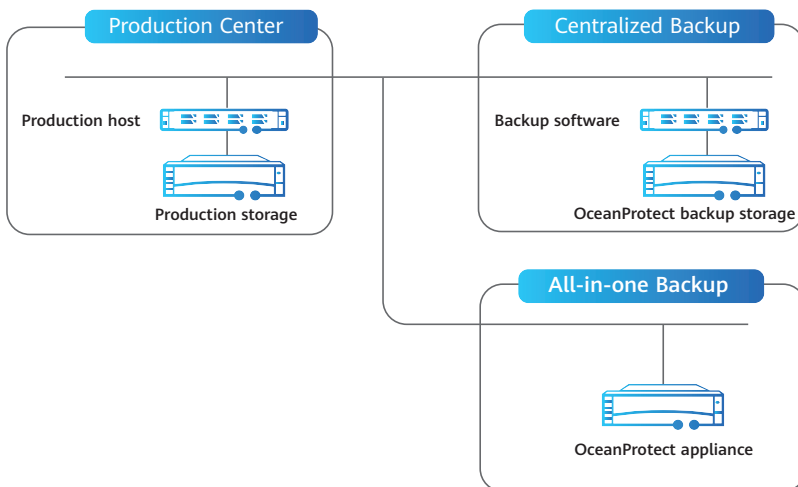
- **Zero service disruption:** The gateway-free active-active architecture for SAN and NAS ensures stable service running and zero service disruption, even in the event of a production center fault.
- **Zero fault impact:** If there is an exception in the production storage, services fail over within seconds, host links are not interrupted, and upper-layer services are unaware of the fault for premium UX.
- **Visual management:** Visualize the global topology, centrally monitor device fault alarms, and simplify O&M through one-click DR drill and failover.

Backup: Efficient Protection and Zero Data Loss

Overview

Huawei backup solution provides centralized and all-in-one backup modes to support efficient backup of applications such as databases, file systems, and virtual machines (VMs). The OceanProtect solution improves data backup efficiency, reduces the TCO, and simply data utilization, ensuring zero data loss and high data availability during daily operations.

Architecture



Highlights

- **End-to-end acceleration:** Network protocol offloading releases CPU resources. The active-active architecture supports automatic service distribution and load balancing. CPU grouping and task partitioning implement massively parallel computing.
- **Efficient reduction:** The Huawei unique data reduction optimization algorithm greatly improves the standard reduction efficiency.

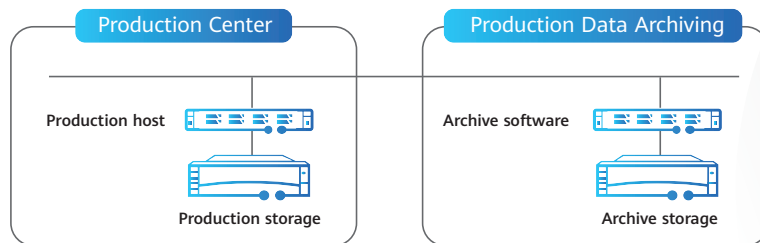
• **Simplified management:** SLA pre-configuration is driving E2E automation. The solution offers an application-centric unified view to facilitate service recovery within three steps. In addition, this solution enables capacity prediction and automatic fault detection as well as rectification.

Archiving: Instant Access and Linear Expansion

Overview

Huawei provides the Long-term archiving solution, which features instant access, linear expansion, meeting customers' requirements for long-term cold data archiving and regulatory compliance.

Architecture



Highlights

Quick access to archived data: Archived data is stored on disks and can be accessed in real time. Archived data does not need to be scheduled for reading, meeting the requirements for quick query and analytics.

Linear expansion: Archive storage uses a distributed architecture that supports on-demand node expansion. The capacity and performance can be linearly expanded, effectively reducing customer's initial investment and facilitating massive data archiving.

For More Information

To learn more about Huawei storage, please contact your local Huawei office or visit the Huawei Enterprise website: <http://e.huawei.com>.



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