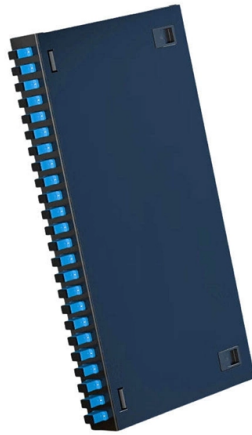


Active-Active Solution for Data Centers



AI Overview

Active-active data center solutions enable two or more data centers to operate simultaneously, providing high availability, zero downtime, and continuous business operations. Overview Active-active data centers are designed so that both sites are fully operational and can handle production workloads simultaneously. This architecture ensures high availability, disaster recovery, and business continuity, meeting strict Recovery Point Objective (RPO=0) and Recovery Time Objective (RTO=0) requirements. Unlike active-passive setups, where one site remains idle until a failure occurs, active-active solutions distribute workloads and data across multiple sites in real time. Key Features Synchronous Data Replication: Critical data is replicated in real time between data centers to maintain consistency and prevent data loss. Workload Distribution: Applications and virtual machines can run concurrently across sites, balancing load and improving performance. High Availability: Failover is seamless; if one site experiences a failure, the other site continues operations without interruption. Disaster Recovery: Active-active setups provide robust disaster recovery, ensuring that business operations remain uninterrupted even during site-level outages. Centralized Management: Unified management platforms monitor and control resources across both data centers, simplifying operations and maintenance. Architecture Approaches Dual-Active Storage: Both storage systems are active and synchronized, allowing servers to access identical data simultaneously. Symmetric dual-active storage ensures redundancy even in double-point failures. Hyper-Converged Active-Active: Combines computing, storage, and networking in a distributed cluster across data centers. This approach supports cross-center VM high availability and minute-level RTO. Stretched Clusters: Virtualized clusters span multiple data centers, enabling applications to perform local read/write operations while synchronizing writes across sites. Benefits...

Article Content

What is Active-Active Data Center?

Active-Active, as the name implies, means that both sides are active online to provide services, as opposed to the traditional Active-Standby model. A true Active-Active solution should cover all levels

Active/Active Data Centers SDN fabric architecture (Part 1/3)

Hello In this write-up, I present a configuration and design guide for active-active data centers based on SDN architecture using EVPN/VXLAN. This design enables the extension of the

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Hospital Active-Active Data Centers Solution

Hospital Active-Active Data Centers Solution The hospital data center should meet the requirements of 24/7 uninterrupted services, simple and efficient operation,

Oracle | Cloud Applications and Cloud Platform

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Hospital Active-Active Data Centers Solution

Discover how Huawei's active-active data center solution can help you achieve business continuity, high availability, and disaster recovery.

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Create, share, and govern trusted knowledge with Microsoft SharePoint—powering collaboration, communication, automation, and AI experiences across Microsoft

Microsoft PowerPoint

Deploying Active-Active Data Centers Using Oracle Database Solutions Ashish Ray, Director of Product Management, Oracle Lawrence To, Consulting Member of Technical Staff, Oracle The following is

Frore Systems

The company's flagship solutions include LiquidJet™, a multi-stage 3D short-loop jetchannel liquid cooling coldplate for data centers delivering higher GPU

Active-Active Multi-Data Center Topology Deployment

An Active-Active topology is when Master and Clone Data Centers are exact replicas of each other (including applications, data stores and the like). They are

Maximizing Active-Active Data Centers with Sticky

Conclusion In the context of modern banking infrastructure, moving from an active-passive to an active-active data center model can provide

Introduction to the Active-Active Data Center Solution

The Active-Active Data Center Solution deploys storage resources across two data centers. A single storage system manages the resources of both data centers, and through data

Active-Active vs. Active-Passive: High-Availability Guide | Aerospike

Active-active setups are commonly used in cloud services, distributed databases, and other systems that need continuous uptime and fast performance. By taking advantage of parallel

Active-Active Data Centers Solution MacroSAN-One-stop Data

As the best partner for user digital transformation and business innovation, it is committed to helping users achieve business innovation and upgrading, and winning the new data era with advanced

Active-active data centers key to high-availability application ...

Enterprises dependent on a high-availability application should take a lesson from web-scale providers and employ an active-active data center design.

Data Center Design with Active Active design

Active-active data center design offers organizations a robust solution for high availability and fault tolerance. Businesses can ensure

Active-Active Architecture: Ultimate Guide | Serverion

Explore the advantages and challenges of active-active architecture, a robust solution for high availability and performance in critical applications.

Active-Active vs. Active-Passive: High-Availability Guide

Explore active-active vs active-passive high-availability architectures, performance, failover, cost, and ideal use cases for modern cloud databases.

Active-Active Vs Active-Passive Data Centers

Active-Active Vs Active-Passive Data Centers Architecture Hi, We all have some distributed setup of applications at our companies, especially those

Hyper Converged Active-Active Data Center Solution

It provides cross data center computing and storage high availability and central disaster recovery for customers at a very low cost, guaranteeing the sustainability of key businesses. The

MULTIPLE ACTIVE DATACENTERS SOLUTION

Providing continuous availability and active-active infrastructure across two datacenters, it can support on the traditional server and Dell EMC storage. Ensure your mission-critical applications are always

Active Active vs. Active Passive Architecture

What is Active-Active Architecture? Active-active architecture refers to a system configuration where multiple identical resources, such as servers or

Hyper Converged Active-Active Data Center Solution

The UIS hyper converged active-active data center disaster recovery solution takes the hyper converged cluster extension technology as the core. It provides cross data center computing

Contact Us

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