

SOLUTION BRIEF

Modernize Without Disruption

Seamless Data Mobility to Zadara Edge Cloud with Cirrus Data

EXECUTIVE SUMMARY

In an era where data sovereignty, cost predictability, agentic AI privacy and edge performance are paramount, organizations are increasingly moving workloads from legacy on-premises hardware and non-sovereign and expensive public clouds to **Zadara's Sovereign AI Edge Cloud**. However, the complexity and risk associated with migrating live, business-critical block storage and compute instances often stall these initiatives.

Together, **Zadara** and **Cirrus Data** eliminate these barriers. By combining Zadara's fully managed, OpEx-based zCompute and zStorage infrastructure with Cirrus Data's automated, intelligent data mobility technology, enterprises and MSPs can achieve seamless, live migration with near-zero downtime, ensuring data arrives safely at the edge, ready for immediate use.

TARGET CUSTOMERS & USE CASES

The "VMware Escape" Enterprise

Organizations facing rising licensing costs or uncertainty with Broadcom/VMware are seeking alternatives.

1

CHALLENGE

Migrating hundreds of VMs without disrupting business operations or refactoring applications.

SOLUTION

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Managed Service Providers (MSPs)

MSPs need to onboard customers to their Zadara-powered clouds quickly to accelerate time-to-revenue.

2

CHALLENGE

Complex, labor-intensive onboarding projects that delay billing and strain engineering resources.

SOLUTION

Cirrus Data's MigrateOps solution for automated data mobility gives MSPs the ability to predictably execute complex migrations at scale. Bring new tenants onto Zadara without complexity or friction.

Data Sovereignty & Compliance Seekers

Entities in healthcare, finance, or government requiring strict data residency.

3

CHALLENGE

Moving data from public clouds (AWS/Azure) back to local, sovereign infrastructure without high egress complexity or security risks.

SOLUTION

Zadara's "Data Sovereignty Compliance" ensures data stays in-country, while Cirrus Data's migration encryption ensures data never leaves the secure "tunnel" between source and destination.

SOLUTION OVERVIEW

The Destination Zadara Edge Cloud



Zadara provides a **fully managed, multi-tenant sovereign AI private cloud** that delivers the "public cloud experience" with the security, low latency, data gravity, sovereignty and performance of a private data center.

✓ **zCompute**

Elastic, AWS-compatible compute with autoscaling and Kubernetes support.

✓ **zStorage**

Enterprise-grade Block & File (VPSA), and Object storage with 100% data isolation and dedicated resources.

✓ **Agentic AI ready**

NVIDIA-certified Cloud Provider (NCP) Reference Architecture Scalable Architecture (SA), as well as NVIDIA Rack-Scale architectures.

✓ **Economic Model**

AnOpEx, pay-as-you-go pricing with no hidden egress fees.

✓ **Secured Private Cloud**

Air-gapped support for highly regulated organizations.

Cirrus Data Cloud Private Edition

With Cirrus Data Cloud Private Edition, enjoy the power of Cirrus Data Cloud in a dedicated, private environment tailored to your needs. Maintain full control over your data management with enhanced security and customized configurations, ensuring your sensitive information remains protected and accessible only within your organization.



The Engine Cirrus Data



Cirrus Data delivers a software-only solution designed to migrate any vendor's storage and virtual workloads between any environments (physical, virtual, or cloud) without hardware appliances.

✓ **Storage Agnostic**

Migrates from any source (FC, iSCSI, local disk) to Zadara.

✓ **Intelligent QoS (iQoS)**

Automatically throttles migration traffic when production workloads spike, ensuring zero impact on active applications during the transfer.

✓ **Security**

Uses AES-256 bit encryption; data travels directly from source to Zadara without passing through a third-party cloud control plane.

✓ **Zero Downtime**

Migrates data at the block level while applications stay online, eliminating the need for long maintenance windows and reducing project risk.

✓ **Automation at Scale**

MigrateOps automates the full migration operation with prebuilt recipes, removing manual steps so teams can start migrations in minutes.



THE MIGRATION PROCESS

How It Works

The integration uses **Cirrus Migrate Cloud (CMC)** to automate the transition from legacy environments (such as VMware) to Zadara's **zCompute** and **zStorage**.

STEPS

1

Step 1: Deployment & Discovery

- The Cirrus Migrate Cloud agent is installed on the source host (Windows or Linux) via a simple command line.
- CMC automatically discovers the source configuration, including CPU, RAM, and all attached block storage volumes (boot and data drives).

2

Step 2: Integration Setup

- The administrator configures the **Zadara Integration** within the Cirrus portal by inputting the Zadara zCompute API endpoint and credentials.
- This establishes a secure link to the specific Zadara Project and Virtual Private Cloud (VPC) where the workload will land.

3

Step 3: Automated Provisioning (MigrateOps)

- Using **MigrateOps** (automation as code), the system reads the source VM specifications and automatically provisions the matching infrastructure in Zadara.
- It creates the zCompute instance, allocates the necessary Elastic IPs, and provisions the **zStorage EBS** volumes required to match the source data.

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Step 4: Live Synchronization with iQoS

- Data begins synchronizing from the source to Zadara immediately.
- **iQoS** monitors source latency. If the production application gets busy, migration slows down. When production idles, migration speeds up. This allows the migration to run during business hours without disruption.
- **Dirty Blocks**: Changes made to the source data during the transfer are tracked and replicated in real-time to keep the destination current.

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Step 5: cMotion™ Cutover

- Once synchronization is complete, the system enters a **"waiting for cutover"** state.
- Upon approval, CMC automatically shuts down the source application, performs a final data sync (seconds to minutes), and brings up the new instance in Zadara.
- The workload is now **running natively on Zadara zCompute** with all data intact.

KEY BENEFITS



Live Data Mobility

Migrate active datasets and VMs without scheduling massive maintenance windows.



Hypervisor Freedom

Seamlessly convert VMs from VMware (or other hypervisors) to Zadara's zCompute hypervisor without manual refactoring.



Security First

Data travels via a direct, encrypted connection (H2H) and never leaves the customer's defined network path.



Performance Guarantee

Intelligent QoS ensures that the migration process never degrades the performance of the live production application.



Automated Migration at Scale

MigrateOps automatically migrates one VM or hundreds with no additional human intervention needed.



Predictable Costs

Combine Cirrus Data's efficiency with Zadara's transparent OpEx model to eliminate "migration balloon costs" and CapEx refreshes.

Ready to Modernize?

Leverage the power of Zadara's Sovereign Edge Cloud with the speed and safety of Cirrus Data migration.

Contact your Zadara representative or visit zadara.com to schedule a demo

ABOUT CIRRUS DATA

Cirrus Data Solutions Inc. (CDS) is a leading provider of block data mobility technology and services. The company distributes its solutions through systems integrators, managed service providers, channel resellers, and partners, including Dell Technologies, HPE, IBM, Microsoft, AWS, Oracle Cloud, Hitachi, NetApp, Pure Storage, Infinidat, AHEAD, CDW, ConvergeOne, Logicalis, SHI, Presidio, ePlus, Insight, Computacenter, Sirius Computer Solutions, World Wide Technology, and many others. Additionally, the company's flagship mobility-as-a-service offering, Cirrus Migrate Cloud, is available on the Microsoft Azure Marketplace, Amazon Web Services (AWS) Marketplace, Google Cloud Marketplace, and Oracle Cloud Marketplace. CDS is headquartered in Syosset, New York, and has support centers in Ireland, with sales and support offices across the United States, Europe, and Asia-Pacific.

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