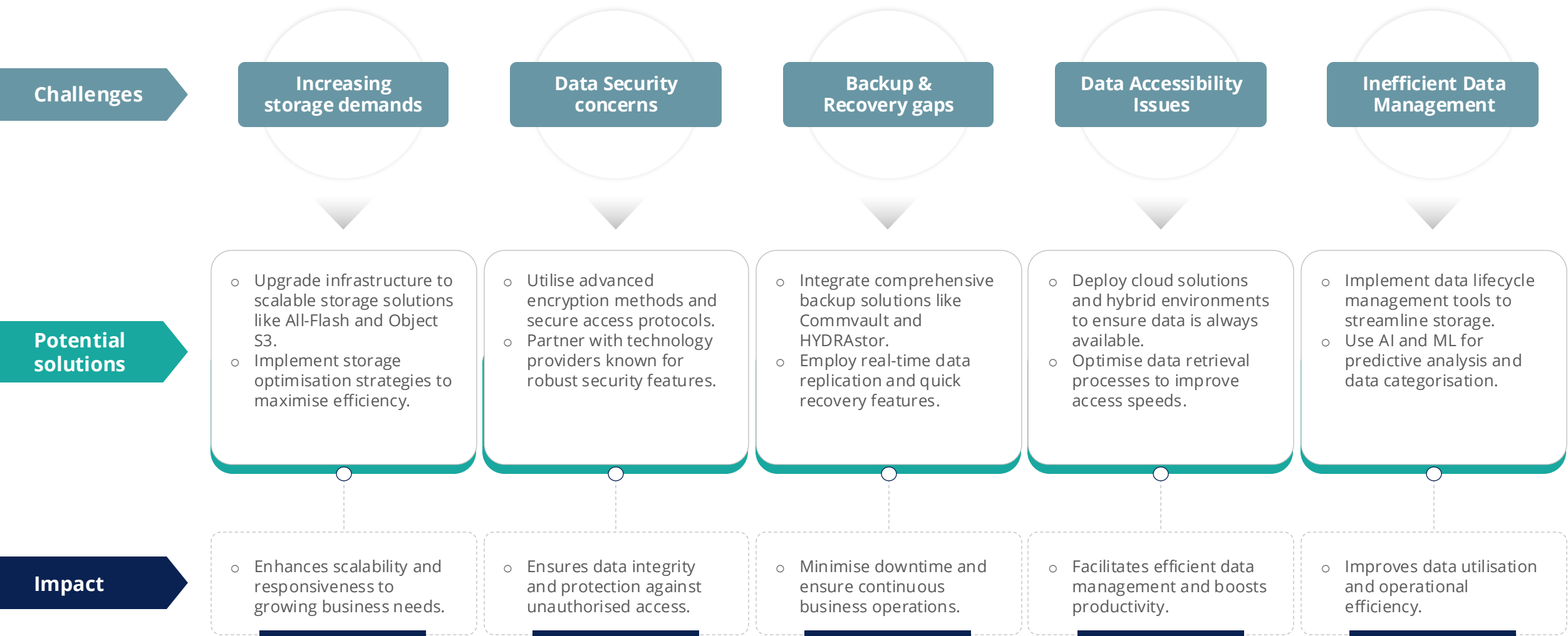


Data Sciences Corporation Product Portfolio

Nov 2024



Strategic Products



Storage Products



Scalability Constraints



Data Protection Requirements



Infrastructure Downtime Risks



Cost Management Pressure



Compliance and Security Challenges

Complexity in Management



Modular Storage Expansion:
We offer scalable storage solutions that can be expanded modularly as your data requirements grow.



Advanced Encryption Standards:
Our technology comes with advanced encryption protocols and standards for enhanced data protection.



High Availability Systems:
We provide high-availability storage systems that ensure minimal downtime and quick disaster recovery.



Cost-Efficient Storage Models:
We develop cost-effective storage models that optimise performance without excessive expenditure.



Regulatory Compliance Integration:
Our Storage Systems integrate compliance measures within the storage solutions to adhere to regulatory standards such as GDPR and POPI.

Intelligent Storage Management:
We implement intelligent storage management tools that simplify complexity and automate routine tasks.



Partner-Powered Storage Innovation



Data Sciences Corporation offers a comprehensive portfolio of storage solutions from trusted technology partners like Pure Storage, CoCre8, HYDRAsstor and VAST Data. Pure Storage provides all-flash arrays with unmatched performance of up to 400 000 IOPS, featuring inline de-duplication and sub-millisecond latency, at a price point comparable to Tier1 storage. It is ideal for VDI, VMWare, and Database deployments and boasts one of the most straightforward and best-performing GUI reporting interfaces.

NEC HYDRAsstor is a massively scalable distributed grid storage platform built to support long-term data retention by reducing storage capacity consumption by up to 95% or more using inline global deduplication. Its unique industry features include online upgrade/expansion and data in-place technology refresh capability. Data is migrated to newer technology seamlessly with no migration planning or effort.

VAST Data is a technology company specialising in data storage, particularly flash memory. Founded in 2016, VAST aims to replace traditional multi-tier storage with a unified, solid-state platform. Their technology leverages Intel's Optane NVMe SSDs, non-volatile memory, and innovative software to deliver high-performance, scalable, cost-effective data solutions. Designed for the AI era, VAST's platform simplifies data management and accelerates data processing, making it ideal for demanding workloads and large-scale analytics.

Fujitsu or CoCre8 The Fujitsu Primary Storage portfolio is based on award-winning performance architectures that deliver the fastest response times regardless of the workload. Their portfolio of data storage solutions provides a one-stop-shop for all data storage needs across traditional storage, Hyper-converged Infrastructure (HCI) and Software-defined Storage (SDS).

High-Performance Compute & Compute Products



Inadequate Server Speed



Inconsistent Business Continuity



High-Performance Computing Needs



Server Capacity Limitations



Data Processing Inefficiencies

Costly Infrastructure Expansion

Speed Optimised Servers:

We implement x86 servers that provide enhanced speed and efficiency for handling large data and intensive workloads.

Robust Disaster Recovery:

We help integrate solutions that offer robust disaster recovery and ensure business continuity.

HPC and AI Integration:

We help provide high-performance computing servers for AI and deep learning applications, addressing the growing reliance on these technologies.

Scalable Server Architecture:

We can design modular server infrastructures for easy and economical scaling as your organisational needs evolve.

Advanced-Data Processing:

We utilise servers with advanced processing capabilities to efficiently handle big data and analytics.

Cost-Efficient Expansion Solutions:

We offer cost-effective server expansion options, including cloud services and virtualisation, to manage infrastructure growth without prohibitive expenses.



Collaborative Compute Power



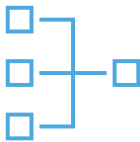
NVIDIA pioneered GPU-accelerated computing, and their work in AI and digital twins is transforming the world's largest industries and profoundly impacting society. They specialise in products and platforms for the large, growing gaming markets, professional visualisation, data centres, and automotive. By building the entire computing system, from processors to acceleration libraries, NVIDIA accelerates data processing, boosts the intelligence and speed of applications at scale and is at the centre of the most consequential mega-trends in technology today.

Supermicro is a leading innovator in high-performance, high-efficiency server technology and is a premier provider of advanced Server Building Block Solutions for Data Center, Cloud Computing, Enterprise IT, Hadoop/Big Data, HPC, Metaverse, 5G Telco/Edge and Embedded Systems worldwide. Their TCO-optimised design, high density and scaling architecture designs deliver an environmentally friendly and energy-saving portfolio of servers, storage systems, switches, and software for even the most challenging AI & HPC workloads.

Fujitsu or CoCre8: Fujitsu offers a comprehensive range of servers, mainframe and storage systems, infrastructure software and data centre management tools to deliver innovative digital solutions that help our customers modernise their existing IT infrastructure. Their server offerings are reliable and easy to manage and offer exceptional performance, scalability, and efficiency for various applications for businesses of all sizes. They are designed with energy efficiency in mind to reduce power consumption and cooling requirements, thereby lowering the total cost of ownership.

The Lenovo server series delivers low setup costs, reduced complexity, and easy scalability for all environments, from large data centres to small businesses. Their improved approach to the common server form factor, with rack servers, tower servers, edge servers, high-density, mission-critical servers, multi-node, and supercomputing server options, will meet your computing requirements and drive your business forward.

Networking Products



Limited Network Scalability



Security Vulnerabilities



Complex Infrastructure Management



Inconsistent Network Performance



Data Transfer Inefficiencies

Outdated Network Technologies

Scalable Network Design:

We implement a scalable network architecture to accommodate business growth and data demand.

Enhanced Security Protocols:

We help you deploy advanced security measures, including firewalls and intrusion detection systems, to protect against threats.

Simplified Management Systems:

We utilise management platforms for centralised control and simplified administration of network operations.

Performance Optimisation:

With data sciences expertise and modern technologies, we help optimise your network infrastructure for peak performance.

Efficient Data Routing:

We help incorporate intelligent routing algorithms to improve data transfer speeds and reduce latency.

Technology Upgrade Path

Regularly update networking infrastructure with the latest Ethernet, InfiniBand, and Fibre Channel technologies for future readiness.



Strategic Partnerships for Network Excellence



Data Sciences partners with Brocade, a subsidiary of Broadcom, to deliver advanced storage networking solutions, including Fibre Channel and IP/Ethernet technologies. We provide comprehensive support to maximise the performance and reliability of storage area networks (SANs). Our customers benefit from proactive maintenance, expert guidance, and seamless issue resolution through Brocade Premier Support. With features like network health checks, personalised support, and rapid problem-solving, we ensure high availability and optimal functionality for complex networking environments.

NVIDIA/Mellanox. NVIDIA networking delivers accelerated network performance to ensure the highest efficiency and lowest latency data transfers demanded by applications running demanding database and OLTP workloads on mainstream enterprise servers to high-performance supercomputers running AI use cases for RAG, model training and inferencing.

Backup and Recovery Products

COMMVAULT



Challenges



Solution

NAKIVO
Backup & Replication



Outdated Infrastructure



Data Breaches



Insufficient Data Protection



Slow Recovery



Data Accessibility

Security Threat Identification

Modernised Backup System: Implement NEC's Hydrastor technology alongside Commvault, Luminex, and Nakivo to modernise the backup and recovery system.



Enhanced Data Security: Utilise machine learning and data analytics tools within the recovery solution to proactively identify and address security vulnerabilities, thereby averting potential data breaches.



Comprehensive Data Management: Create a complete backup and recovery portfolio with application-level replication to ensure data integrity and availability across all storage locations.



Rapid Recovery Process: Incorporate fast recovery options within the backup solution to minimise downtime and expedite business continuity processes.



Reliable Data Access: Establish a system with high availability features to maintain constant data access, thereby ensuring uninterrupted business operations in any scenario.



Predictive Analytics for Threat Management: Leverage predictive analytics and machine learning algorithms to detect potential threats before they materialise, ensuring the company's data remains secure.

Enhancing Resilience: Proactive Backup and Recovery

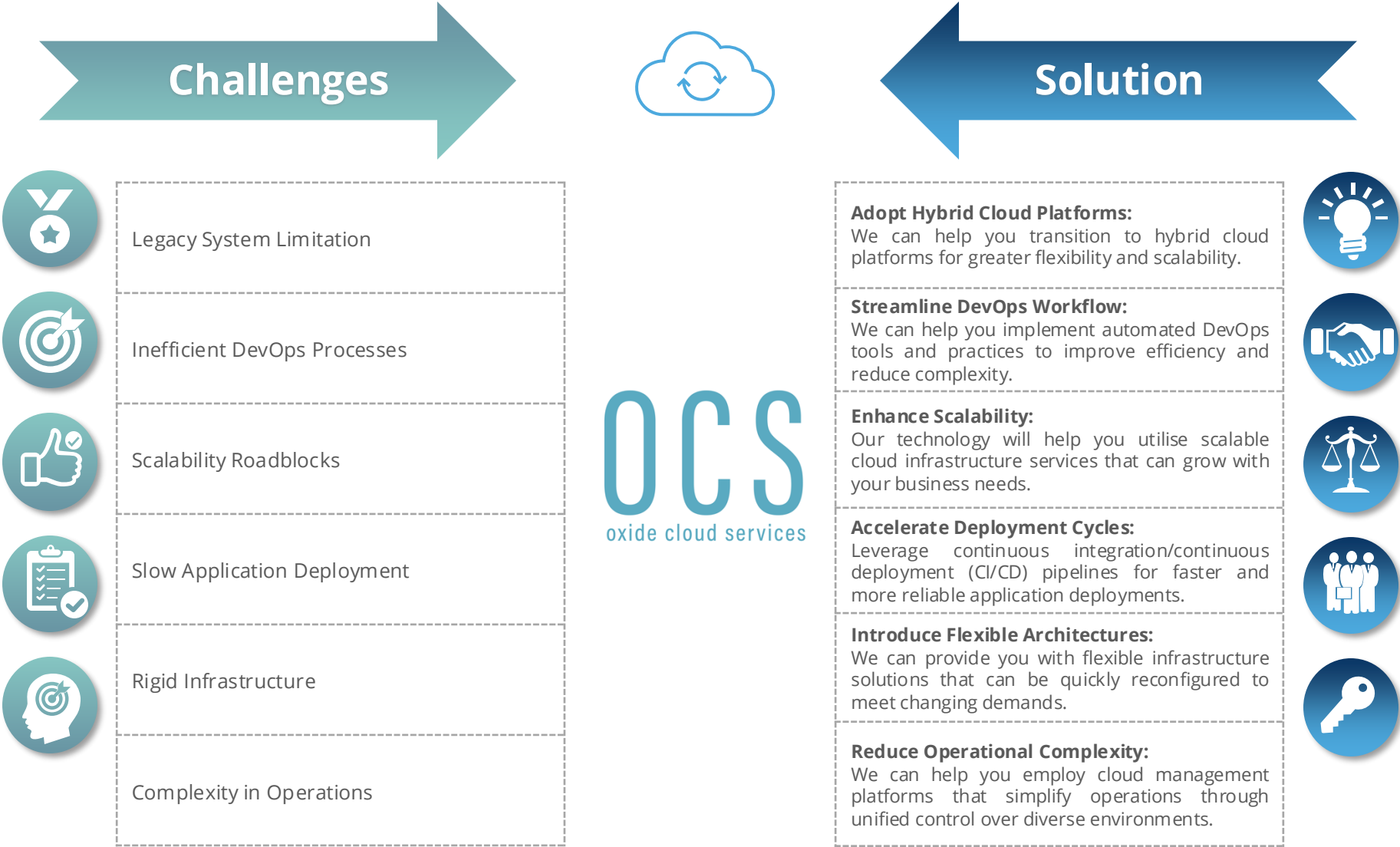
The Commvault logo, consisting of the word "COMMVault" in a bold, sans-serif font, followed by a small red cube icon.The Nakivo Backup & Replication logo, featuring the word "NAKIVO" in a bold, sans-serif font, with "Backup & Replication" in a smaller font below it.The Luminex logo, featuring the word "LUMINEX" in a bold, sans-serif font, with a stylized blue and red graphic element to the right.

Commvault enables progressive enterprises to rethink data management across their organisations. Commvault delivers an innovative, straightforward approach to protecting, managing, and recovering data across hybrid IT environments with a single, unified platform. Founded with a focus on data resilience, Commvault helps businesses secure data, protect against threats and drive growth with an innovative solution that integrates backup, recovery and cloud management in one place. The platform is designed to offer seamless cyber resilience and simplified data management for modern enterprises.

Nakivo Backup & Replication is an all-in-one solution designed to backup, replicate, and recover VMware VMs onsite, offsite, and in the cloud. NAKIVO Backup & Replication is a server application that can be installed on a virtual or physical machine. The product is designed to use the maximum amount of CPU and RAM to achieve the top speed of VM backup, replication, and recovery.

Luminex delivers advanced mainframe storage and connectivity solutions backed by nearly 30 years of innovation. Specialising in virtual tape and data interchange, Luminex helps businesses modernise their mainframe environments by providing faster, more reliable storage options. Their solutions enable seamless integration of mainframe and open systems, offering features like data compression, encryption, and cloud connectivity. Trusted by leading companies across industries, Luminex ensures efficient data management and long-term support.

Cloud Native Solutions



Empowering Agility with Cloud-Native Products



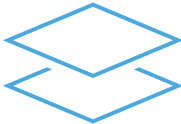
Cloud-native solutions provide a modern approach to infrastructure management that emphasises flexibility, scalability, and dependability. OXIDE cloud services offer a cloud-native infrastructure that enables organisations to use modern architectures and automation. With OXIDE cloud services, organisations can deploy applications quickly and reliably, using a hybrid cloud platform that delivers infrastructure-as-code and open-source technologies. This multi-cloud hybrid platform is suitable for DevOps and Infrastructure-as-a-Code automation, allowing organisations to maximise business efficiency, enable expansion and scalability, and reduce unnecessary wait times.

OXIDE cloud services provide a solution for organisations needing help with traditional infrastructure management techniques that slow their ability to deliver applications quickly and reliably.

Virtualization



Challenges



Solution



Resource Overhead and Utilisation



Complexity in Management



High Licensing and Operational Costs



Scalability Bottlenecks



Security Vulnerabilities

Disaster Recovery and Data Backup Challenges

Efficient Resource Allocation

Virtuozzo optimises resource utilisation through container-based virtualization, ensuring high density and low overhead.



Cost-Effective Virtualization

Virtuozzo provides a highly cost-effective solution with flexible licensing, reducing Total Cost of Ownership (TCO) for enterprises.



Streamlined Backup and Disaster Recovery

Integrated disaster recovery and backup capabilities ensure data availability and rapid recovery in critical scenarios.



Advanced Management Tools

VMware offers robust management tools, such as vSphere, for simplifying and centralising virtualization operations.



Scalability and High Performance

VMware's ESXi hypervisor and vSAN provide seamless scalability and performance to meet the needs of growing enterprises.



Comprehensive Security Features

VMware incorporates advanced security features, such as micro-segmentation and workload isolation, to address virtualization-specific threats.

Virtualization Unlocked



Virtuozzo provides an all-in-one cloud platform for Cloud Service Providers (CSPs), Managed Service Providers (MSPs) and hosting companies. It allows users to easily build public, private, or hybrid clouds and offer popular cloud services with minimal effort. Virtuozzo's technology simplifies cloud infrastructure management while delivering scalable, efficient solutions that cater to various business needs. The platform is designed to help companies deploy and manage cloud environments seamlessly, making it a versatile choice for modern cloud solutions.

VMware cloud computing and virtualization technology is the world's leading enterprise software hypervisor and is used to consolidate multiple Virtual Machines (VM) on a single physical server. Multiple workloads with their own operating systems, run in a virtual partition (VM) on a single physical server thereby reducing the physical server requirement and the costs associated with hardware, power, cooling and physical server footprints.

Challenges



Solution



Lack of Visibility in Complex Networks



Malicious Lateral Movement



Difficulty Enforcing Zero Trust Principles



Time-Consuming Policy Creation



Integration Challenges in Multi-Cloud Environments

Insufficient Real-Time Alerts and Responses



Comprehensive Network Mapping

Provides visibility across data centres, multi-cloud environments, and endpoints through a centralised UI, enabling IT teams to identify and monitor all assets effectively.



Prevention of Lateral Movement

Precise segmentation policies and dynamic security mechanisms restrict unauthorised movement within the network, reducing the attack surface.



Zero Trust Made Simple

Enforces Zero Trust principles with intuitive, software-based segmentation, allowing enterprises to implement granular control across their networks.



Simplified Policy Management

Agent-based sensors and visualizations simplify policy creation and enforcement, making the process faster and less error-prone.



Multi-Environment Compatibility

Seamlessly integrates with hybrid and multi-cloud environments, ensuring consistent segmentation and security across diverse infrastructures.



Real-Time Threat Alerts

Delivers proactive network security alerts to identify malicious activity and prevent threats before they escalate.

Securing Every corner



Akamai Guardicore Segmentation is a software-based segmentation solution that provides simple, fast and intuitive ways to enforce Zero Trust principles in the network. Using a mix of agent-based sensors, network-based data collectors and virtual private cloud flow logs to map your network, this segmentation solution works across data centres, multi-cloud environments and endpoints to deliver a central UI of all an organisation's assets and infrastructure. Akamai Guardicore Segmentation enables you to prevent malicious lateral movement within your network by using precise segmentation policies, comprehensive visuals of activity within an IT network, and network security alerts.

Optimisation Products



	Inefficient Data Transfer
	Cloud Migration Risks
	Ensuring Data Integrity
	Minimising Operational Impact
	Optimising Network Utilisation
	Customised Migration Strategy

Intelligent QoS Optimisation: We utilise intelligent Quality of Service (QoS) to enhance the data transfer procedure for maximum throughput based on real-time network activity, improving transfer rates.
Cloud Migration Expertise: Deploy Data Sciences Corporation's expertise to navigate cloud data migration's complexities safely, leveraging state-of-the-art technology to mitigate risks.
Data Integrity Assurance: We implement a strategy prioritising data integrity, using tools and processes that ensure data remains accurate and consistent throughout the migration.
Seamless Migration Execution: We offer solutions that enable block-level data transfer over fibre channel and iSCSI networks effortlessly, with minimal operational effect and minimal risk.
Network Activity-Based Migration: Employ an optimised data migration approach that dynamically adjusts to the storage and network's activity level, ensuring efficient utilisation of network resources.
Custom Migration Planning: Craft a comprehensive migration plan that includes preparation, execution, and verification stages tailored to the company's specific infrastructure and business context.



Seamless Transition: Strategic Optimisation Products



Komprise provides analytics-driven software to help businesses manage large volumes of unstructured data across various storage environments. Founded to address the growing data complexity, Komprise offers a storage-agnostic platform that efficiently analyses, moves and manages data. By automatically placing data in the correct storage tier, it helps enterprises reduce storage costs, improve data access, and optimise data workflows.

With features like Transparent Move Technology™, Komprise enables seamless data migration to the cloud without disrupting user access.

GigaSpaces is a global leader in in-memory computing, providing solutions that power real-time applications and accelerate digital transformation. Their flagship product, Smart DIH (Digital Integration Hub), is an operational data hub that simplifies data management and enables organisations to develop and launch digital services quickly. It complements its award-winning Smart Cache solution by offering advanced capabilities for integrating and processing data at high speed, helping companies become data-driven and digital-first.

Storage



High-Performance & Compute



Networking



Backup & Recovery



Cloud Services



Virtualization



Security



Optimisation



Thank You



Address

3 Georgian Crescent West, Bryanston



Contact number

011 568 3200



Email address & website

info@datasciences.co.za

www.datasciences.co.za