

Fortune 500 Company Boosts Product Release Velocity With Hyperconverged Infrastructure

Case Study



Overview

Streamlining multi-cloud service delivery

A Fortune 500 risk management company, headquartered in the US and operating in more than 20 countries, wanted to alter its IT reality to support its business ambitions in diverse insurance sectors.

The organization had a complex heterogeneous technology landscape with a monolithic architecture in its huge on-premises environment, driven by manual and time-consuming processes. It needed to create a seamless network path to multi-cloud service delivery.

Zensar's brief:

- Deploy the right technology mix for a fully automatic infrastructure as code (IaC) private cloud solution.
- Simplify the existing network operations to support agile application development.

Beyond the brief:

We worked closely with the client's IT team, as a trusted partner, to deliver a hyperconverged infrastructure that's aligned with the digital vision articulated by the business.



Challenges

Complexity and inefficiencies

The client's IT ecosystem was weighed down by multiple challenges:

Complex application landscape: Fragmented on-premises, hybrid, and public cloud footprints were impeding business agility and delaying the go-to-market of key products and services.

Cost inefficiency: The cost burden of managing large on-premises infrastructure was impacting IT agility.

Absence of automation and orchestration: This led to excessive manual intervention and human errors, reducing the product release velocity for business users.

Proliferation of shadow IT: This resulted in imbalanced on-premises infrastructure consumption, impacting resource management and chargeback.



Solution

Delivering an optimized hyperconverged infrastructure

Goal: Our goal was to codify the infrastructure to empower the IT teams to achieve the level of nimbleness and agility required to support the business effectively.

Planning: We conducted a comprehensive technology landscape analysis. Using the findings, we designed a fully orchestrated Infrastructure as Code (IaC) model for the

client's on-premises environment, using the ZenCloud reference architecture and the Nutanix Hyperconverged Infrastructure (HCI) software-defined technology.

Implementation: We implemented a self-service-based consumption model. This was facilitated by predefined service catalogs, automated through playbooks, for business users of on-premises infrastructure. The aim was to mimic the public cloud experience.

Solution highlights:

- **Availability and reliability:** We enabled significant improvements with advanced monitoring that covered
 - auto-discovery and inclusion of new instances into the database,
 - auto-detection of issues, and
 - subsequent remediation through self-healing solutions.
- **Scalability:** We coupled data-driven capacity planning with IaC-based auto-scaling of the environment to deliver a hyperscale experience for on-premises infrastructure.
- **TCO analysis:** We enabled cost comparisons between on-premises and Azure for each workload that needed to be provisioned.
- **Discovery and dependency mapping:** We evaluated application requirements, programmatically provisioned infrastructure and the associated software, and executed ITSM integrations.
- **Network performance:** We leveraged high-speed ethernet and a loss-less, line-rate programmable network for faster network service provisioning — for both on-premises and cloud environments.
- **Near zero-touch operations:** We automated the multi-cloud solution, leveraging the Zensar Vinci™ AIOps platform. This helped boost efficiency, security, cost savings, and overall performance.



Impact

Unhindered business growth

According to internal benchmarks, these results were delivered:

- 70 percent cost savings
- Two times shorter provisioning time
- Four times improvement in agility and time-to-market

Business outcomes: The solution helped the company realize its digital vision with a future-ready infrastructure that delivers the cost efficiency, availability, resiliency, and scalability required for unhindered business growth.

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