

Nutanix-Powered Private Cloud for a Prominent Regional Utility Company in North America.

Nutanix Enterprise Cloud allowed TCS to refresh an aging infrastructure in a phased migration designed to implement high-performance HCI without interrupting key operations.

The overall infrastructure footprint was reduced by over 65% with software requirements down by 68%, 85% reduction in needed rackspace and 65% reduction on power and cooling.

BUSINESS BENEFITS

The client, an electric supply company for one of the largest regional economies in the United States, was relying on outdated NFS and SAN-based infrastructure to support 40,000+ users across the organization.

As the foundation of a digital transformation initiative, they sought to procure an HCI solution that would dramatically streamline datacenter (DC) operations by reducing hardware and software complexities that were beginning to bog down administrators and drive spiraling costs.

They selected TCS to craft the right solution. The TCS team drew on its partnership with Nutanix to deliver an HCI solution that dramatically simplified management through features like single-click upgrades, single-pane management, and sharply reduced physical infrastructure requirements.

Upgrades were planned to coincide with the planned end of life for each piece of existing infrastructure, allowing for a phased shift to HCI with minimal disruptions.

INDUSTRY

Energy Resources and Utilities

CHALLENGES

Replace aging SAN, NFS and legacy blade based infrastructure with Hyperconverged Infrastructure (HCI) for improved operational agility, ease of management, and cost control.

SOLUTION

Nutanix Core HCI Products – AOS and Prism

Applications

General Purpose Server Virtualization, Citrix VDI XenApp, XenDesktop, Citrix Management Infrastructure, SQL Database, Oracle Database and SAS applications

in partnership with

TATA
CONSULTANCY
SERVICES

CHALLENGE

Supporting a 10+ million customer base with reliable electric power requires a powerful set of technology tools. Existing network infrastructure was becoming cumbersome for this regional electric company's IT team to manage using legacy SAN-based datacenter Infrastructure.

This tiered infrastructure had begun creating management silos and sprawling administrative workflows. Paired with growing demands on physical infrastructure, these limitations were creating CAPEX/OPEX management problems even as they impaired time to deployment for new tools.

IT needed to find a solution built to solve these technology management issues while delivering improved performance for large and growing operations. They also needed an implementation partner with a proven ability to deliver enterprise-grade HCI solutions at scale. With these requirements in mind, they selected TCS to deliver an optimized network infrastructure built on Nutanix HCI.

SOLUTION

TCS designed and delivered a streamlined DC infrastructure architecture that is built around Nutanix Enterprise Cloud. Their efforts aligned with the client's desired phased-migration strategy, moving components over to the new HCI infrastructure as they reached end-of-life. These new assets were seamlessly integrated with existing clusters to ensure a truly non-disruptive migration.

The Nutanix technology foundation ensured that TCS could deliver on key priorities for this upgraded infrastructure. Enhanced de-duplication and compression features dramatically cut raw storage requirements.

Meanwhile, Nutanix is fully integrated with all the functionality needed to markedly reduce the need for additional layers of DC software and plug-ins. Full, non-disruptive disaster recovery capabilities, for instance, are baked in through Nutanix DR, while Nutanix Files provides for file services.

CUSTOMER OUTCOME

TCS' solution dramatically streamlined the overall DC hardware and software packages required to effectively manage network infrastructure. This reduction not only reduced licensing costs directly but simplified the administrative complexity associated with juggling dozens of licenses from different vendors.

Using their new infrastructure, client admins can use "Auto Deployment" to roll out new hosts as business demands. And, with improved scalability, this fast deployment capability doesn't require the client to maintain costly excess capacity. Upgrades can be rolled out with minimal operational disruptions—and through a single click.

Client technology managers are no longer required to work through multiple control panels: all key administrative tasks and reports can be accessed through a single console provided by Nutanix Prism. While initially employing ESXi, Nutanix ensures full support for all hypervisors, promoting forward-looking flexibility by eliminating lock-in to a single hypervisor vendor.

Nutanix's Metro-Availability solution provides zero-RPO disaster coverage for business critical applications.

NEXT STEPS

TCS continues to expand the client's HCI assets organically as its legacy infrastructure becomes end of life, allowing the client to pursue a transformation toward next-generation infrastructure without disrupting essential day-to-day work. The Nutanix team continues to support knowledge transfer to approximately 150 TCS engineers who take on active management of this infrastructure on behalf of the client.

TCS-NUTANIX PARTNERSHIP BENEFITS

This nuanced, phased upgrade approach required a skilled implementation team backed by the right technology, and that's precisely what the Nutanix-TCS partnership provided.

With Nutanix-TCS, clients can rest assured that leading enterprise technology solutions will be carefully tuned to solve real, ground-level business problems at any scale.



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