HCL Partners with Nutanix to Build Scalable Infrastructure for Water Utility in Australia

HCL to Enable Next-Gen DC for a State-Run Water Utility as Part of DC Infrastructure Transformation Program

ORGANIZATIONAL BENEFITS

The Australian government sought to optimize costs and capabilities for the technology infrastructure supporting a group of regional public entities. Doing so would require implementing highly scalable infrastructure capable of supporting the consolidation of a substantial workload of apps and virtualization. Meanwhile, the solution would need to be fully resilient in the face of disasters and other threats to operational continuity.

Crucially, this combined infrastructure would need powerfully streamlined management capabilities to prevent this consolidation from becoming an administrative nightmare for IT.

The public company charged with leading this effort brought in HCL as a full MSP to implement an enhanced consolidated solution. HCL built the software defined solution using Nutanix's hyperconverged infrastructure running with VMware vSphere and NSX. This solution utilized Zerto for DR Orchestration.

This next-gen solution can support key apps and virtualization via a private cloud while offering streamlined management tools, integrated DR, and a dramatically reduced physical footprint for datacenters. Meanwhile, this new infrastructure provides a ready-made launching pad for a planned move to a hybrid-cloud model.

> 100% software driven infrastructure running on a x86 servers delivering scalable, high-performance storage and computing eliminating traditional IT silos and reducing overall IT and operational costs.

INDUSTRY
Government - State-Owned Utility

CHALLENGES
To consolidate technology systems for three government entities into a single, future-ready solution.

SOLUTION
HCL Next-Gen DC services including Nutanix AOS, Prism Central

Applications
• SCADA Systems, MS SQL

NUTANIX

CHALLENGES

The client, a leading regional utility in Australia, was tasked by the government with consolidating technology systems for different government entities under a single, cost-saving umbrella organization.

This task would require integrating multiple separate, independently managed systems into a single solution for production, disaster recovery, virtualization, and running key applications for day-to-day operations. Collectively, these systems supported over 130 different applications (with plans for growth) via SCADA and Microsoft SQL. Their infrastructure also supported extensive virtualization via VMWare vSphere.

While current, legacy infrastructure was nearing the end of its lifespan, this organization wanted more than a replacement. They were seeking an MSP who could implement a "next-generation" solution that would offer tangible business advantages over their legacy architecture.

The client needed to find an MSP with the ability to:

- Locate a high-performance solution capable of supporting this new combined public sector IT infrastructure.
- Improve service responsiveness while providing redundant, high-availability technology.
- Find a solution that would be readily scalable for future state needs across multiple entities.
- Implement a cloud-ready solution: software-defined infrastructure and hybrid-cloud-capable management tools.
- Reduce spending on power, datacenter space, and administration/operations.
- Source a solution that could be fully integrated with SCADA and existing services like Commvault Backup, ServiceNow, and SIEM.
- Ensure a solution with integrated Disaster Recovery capabilities.

SOLUTION

To accomplish these objectives and transform technology delivery across multiple public sector organizations, this client wanted a proven MSP who could provide end-to-end orchestration of their new implementation. The selected MSP would need to identify the right technology solution to support the government's needs, timeline, and budget.

With these requirements in mind, after conducting numerous in-depth workshops with several System Integrators, they selected HCL Technology to implement and manage their new infrastructure. HCL drew on its extensive experience to showcase an overall executable solution offering Nutanix technology.

The new solution would be based out of 2 DC's, utilizing Nutanix hardware and software to run a private cloud environment (with a shift to public/hybrid cloud on the future roadmap enabled by the new infrastructure). Nutanix provided all the capabilities needed to allow HCL to scale up a comprehensive solution for storage and computing. This solution is designed to be highly resilient, backed by a self-healing architecture that limits risks to sensitive government data.

EXPECTED CUSTOMER OUTCOMES

HCL along with Nutanix are committed to deliver the desired outcomes as expected by the client with extended managed services support model in line with client's operational & cost requirements.

The new solution will be able to support all 130+ apps for the public entities it serves while delivering an environment with key advantages over its predecessor. The new infrastructure is more responsive than ever before: new capacity can be deployed and put into use the same day. As a true software-defined stack, Nutanix's web-scale engineering will ensure space for virtually unlimited scaling. This capability not only will help ensure future agility but prevents the need for costly spending on excess capacity for the DC. And, with their new infrastructure, admins can conduct management tasks across all these consolidated systems through an easy-to-use, single-pane management tool, Nutanix Prism.

NEXT STEPS

HCL continues to work with the client to add and support all needed applications out of the new Nutanix-powered DC's. HCL and Nutanix are well prepared to continue guiding this client in its transformation journey heading into the future.

in partnership with

NUTANIX™
YOUR ENTERPRISE CLOUD

HCL

T. 855.NUTANIX (855.688.2649) | F. 408.916.4039
info@nutanix.com | www.nutanix.com | @nutanix