

Robust Data Protection and Disaster Recovery Solutions for Business Continuity

Industry: Manufacturing

Location: Mumbai, India

Client: (Provided on request)

Objective

- Modernize the data centre to support business growth and agility.
- Enhance infrastructure performance to address digital transformation initiatives and upcoming business applications.
- Deploy the DR strategy to ensure business continuity.
- Simplify IT administration and give SLA services to the business.

Solution

- Increased IT Efficiency & Productivity
- Simple, One-Click Upgrades and Easy Scalability
- Implementing DR
- Comprehensive identity assurance to confirm user authenticity
- Enabling Smarter Resource Management

Introduction

A dominant Indian plastic manufacturer, founded in 1942, is one of the country's largest plastics processors handling volumes of over 3,20,000 tonnes of polymers annually and. This leading plastic processing company with 7 divisions had forayed into different types of plastic processing in Injection Moulding, Rotational Moulding (ROTO), Extrusion, Compression Moulding, Blow Moulding etc. When its existing HCI environment reached a saturation level, the IT team decided to upgrade their existing infrastructure to protect their data and applications..

Swan pitched in to implement a robust disaster recovery solution with a full spectrum of backup and data recovery options available with Nutanix HC to ensure smooth business continuity. We took over the responsibility to migrate all workloads from their existing 4 node Nutanix cluster to the DR location and deployed 3 new node clusters of the newer processor series at DC. After completion of the migration, 3 new node clusters were configured at the primary data centre. Swan entered into a SLA contract with the customer to provide end-to-end support and full-fledged service for the Nutanix Infrastructure deployed at the DC & DR centre. These feasible solutions now eliminate IT silos, simplify operations and substantially reduce the costs.

Challenges

Data is the most important digital asset of any organization. No organization is immune to outages, severe weather, or security breaches. Organizations cannot tolerate more than an hour of downtime for their critical applications. Improving data recovery within a short span of time is a priority. A leading manufacturing company that was rapidly expanding its scale of operations needed reliable business continuity and disaster recovery (DR) solutions that kept pace with their businesses.

After their existing HCI environment reached a saturation level, they urgently required an upgrade of their existing IT infrastructure. Being a listed organization, the deployment of a disaster recovery strategy was critical to ensure a smooth business continuity.

Solution

Swan Solutions, conducted an in-depth assessment of the existing Nutanix HCI infrastructure which was deployed 3 years back. As part of the assessment Swan HCI expert team scrutinized the existing workloads, analyzed the upcoming workloads and their computed requirements. Based on their assessment, the Swan team defined a base performance benchmark of the existing infrastructure and suggested various steps to optimize the current infrastructure. As part of the optimization process they also cleaned up a lot of non-used workload.

The team suggested that the customer move the existing 4 node Nutanix cluster to the DR location and deploy 3 new node clusters of the newer processor series at DC. Swan took over the responsibility to migrate all workloads from 4 nodes to 3 node clusters. After completion of the migration 3 new node clusters were configured at the primary data centre, with the old 4 node clusters moved to the DR site.

Swan configured Nutanix Prism inbuilt host-based replication feature to replicate Primary Cluster workloads on the DR cluster workloads. A DR drill was executed to test committed RPO/RTO of 1 hour to business. Swan also entered into a service-level agreement (SLA) contract with the customer to provide end-to-end support and full-fledged service for the Nutanix Infrastructure deployed at DC & DR centre.

Business Impact

Completes failover of entire data centre in 1 hour which previously took days

With the DR cluster now in place, customers have increased IT resilience—reducing the risk of issues impacting system performance. Furthermore, as part of the modernization program, business-critical applications have been architected in a way to enable automated failover, rendering a stronger disaster recovery capability.

Reduced IT costs by 30%

Nutanix as a result of its private cloud strategy represented better value for money and reduction in cost savings upto 30 percent than the public cloud strategy. Nutanix's consolidated approach also means emulating the cloud capabilities in-house without substantial effort.

Optimized performance through workload agility

Nutanix HCI infrastructure ensures data sovereignty and data security. It also gives the users flexibility and full control.

Reduced storage/compute data centre footprint by 75%, lowering overall data centre costs significantly.

Energy consumption lowered by 55%

Simplified IT management and makes upgrades pain-free



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