Success Story

Our client is a power distributor in the NCR of Delhi which has a customer base of approximately 50,000 and reaches out to a population of 7 lakh spread across hamlets, villages and a new township spanning an area of 335 sq. km. Our Client was looking for a high availability solution in Virtualization as the uptime of Infrastructure was very important to keep up with business requirements within the given budget and timelines.

Business Challenge

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CHALLENGES

In current scenario customer was running his critical applications on four IBM servers and the existing applications were hosted on a separate blade servers. These servers were not consuming the computing resources and the whole network was underutilized. The challenges they were facing:

- High availability was their main concern as more hardware was required to make the site highly available
- Management of resources was also difficult
- Keeping an eye on security was concern as well
- The increasing need for new space, power and cooling and server management was becoming unmanageable
- IT staff was always busier in maintaining the infrastructure rather than putting their focus to provide more innovative and efficient solutions to optimize business
- Datacenter was also not big enough to accommodate more hardware as it was required for high availability scenario

The blade servers they had could be consolidated onto a smaller number of servers using virtualization technology. P2V migration was also needed for the critical applications.

SOLUTION

Before providing any solution proper planning and requirement analysis is required, so Progressive completed an intensive planning process through these two steps:

Progressive solution team captured the current infrastructure to establish a baseline and provide input to the design. Information about the current infrastructure helps to prepare deployment scenario to pursue. To capture the current infrastructure, following tasks were performed:

- Network topology Identification
- Operating procedures evaluation
- Security analysis
- Assessment of current data

After completing the requirement analysis, implementation plan was designed for smooth cruising of project.
Progressive team prepared Implementation plan along with the project timelines for smooth functioning of project. Some important key points as under:

- Collected of relevant data required in making decision and Setting up priorities and objectives
- Drawing out alternative solutions
- Assessing and evaluating the data analytically and comparatively
- Planning for systematic execution of best solution figured from previous
- Pilot testing

On IBM Blade server’s VMware ESX 5.0 was installed and on a separate rack mounted server VMware vCentre was installed to manage all ESX hypervisors. VMware P2V conversion kit was used to consolidate all servers and all its critical servers were migrated on three IBM servers on a high-availability mode. Following features were implemented keeping in mind the challenges faced by customer:

As IT management was one of the concern of customer, to overcome this challenge we implemented VCenterServer. VCenter provides scalable and extensible platform that forms the foundation for dynamic management of all the ESX hypervisors and after implementing this customer was very comfortable and confident as:

Note: VM network Schematic in high-availability mode
It was able to control and view the virtual IT infrastructure at every level from a single centralized point.

With its VMotion feature, customer was covered for failure as well as it allows the virtual machine to move between two or more hosts.

Whole infrastructure was highly available including storage as well with help of VMotion Storage feature as we can relocate the virtual disks.

VMware update manager was installed to take care of all the updates on the network including the guest OS.

Security concern was also taken care as update manager applies patches to eliminate the vulnerabilities.

Load balancing within the network was also taken care with VMware DRS so that on demand resources can be allocated to required business unit.

Troubleshooting jobs which requires most of the time and is major time consuming when it comes to maintenance. VMware Syslog Collector feature made it easier for them to troubleshoot the problems as it maintains the log entry from every ESX/ESXi hosts in the network instead of hosting them locally which can be accessed centrally.

**BENEFITS**

We applied our process of discovery, design, deployment and documentation to help facilitate containment of their requirement of new hardware by converting the infrastructure into virtualized platform. This also resulted in lower power and cooling costs and significantly less server management effort. It also resulted in not requiring the new hardware for high availability mode which would have significantly increased their IT budget. More importantly, it also postponed the need for new data center.

**ABOUT PROGRESSIVE INFOTECH**

Trusted IT partner since 1998, Progressive Infotech provides comprehensive suite of transformation and support services. The offerings span across cloud, digital and support operations, delivered through a matured and scalable service delivery model. In every client engagement, Progressive ensures clients realize higher ROI, stretch the intrinsic value of existing IT investments and are better prepared for emergent market changes.

Progressive Infotech is consistently featured as a “mature vendor for IT Outsourcing” in the Gartner hyper cycle report for ICT in India for last few years.

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