

Case Study

Designed and Implemented IT infrastructure for one of the largest theme parks in India



Project objective:

- To build a robust and secured campus wide IT infrastructure.
- High class industry standard DC and DR setup for mission critical applications.
- Integration of campus application and network resources with bankers, distributors and other media stuff.
- Provision of device & link redundancy to achieve zero production loss.
- Availability of Mission Critical Applications round the clock.

Challenges:

- Planning, designing, implementation & testing in a small span of time considering the Go-live dates.
- Harsh environmental conditions and strict timelines for project rollout.
- Business critical applications to be made available at DR site in case of disaster.
- Data integrity in Virtual Machine based Backup Solution.
- Campus-wide OFC /UTP cabling and maintenance was tough since it was outdoor infrastructure with lot of civil and digging activities to create proper landscape.
- Being in the entertainment industry, downtime is not accepted considering huge business loss.
- Streaming applications with multi-vendor scenario for attractions.

Project approach:

- Understood the entire requirement from the business, security & Technology standpoint.
- Carried out Capacity planning assessment of entire IT infrastructure determining consolidation ratio and new hardware sizing.
- Interacted with Application owners and hosting partners to define integration process of the payment gateway setup with the in-house applications.
- Designed and approved the complete IT infrastructure considering reliability and future scalability.
- Had multiple technical rounds with the customer and confirmed the phases for implementation.

Technology innovation:

- Redundant network device & server provisioning to achieve load sharing & device fail over.
- Campus-wide 10G backbone OFC connectivity to cater high volume data and bandwidth intensive voice & video applications.
- Implementation of NMS to get status of network devices, links and servers.
- Virtualized server environment using VMware to get maximum use of resources with less physical hardware.
- Provision of internet and application access based on the privilege of users in Active-Directory.
- Setup in IT Infrastructure on powerful Network, Server and Storage platform.
- Online migration of Business critical applications to new VMware environment with minimal downtime. Site Recovery Manager used for Disaster Recovery.
- Setup CA Arc-serve backup solution considering the criticality of online and offline data.

Client benefits:

- Robust and secured IT infrastructure with aggregate LAN & internet bandwidth.
- Project completion & go live in time.
- Integration with Wifi setup & in-house tools.
- Centralized authentication administration and monitoring.
- Achieved 10:1 hardware consolidation ratio.
- Increased Server hardware utilization rate from 10 -15% to 70 - 80%.
- Approx. 45% cost savings.
- Possibility of DR drill on the fly using VMware SRM technology.