Choice Case Study

Network and Security Solutions for AOC

Project Preface

Choice Solutions Limited was awarded by the AOC (Army Ordnance Corps of Indian Army) IT projects for their Main Datacenter at Delhi, Main Disaster Recovery Center at Pune, Near Line Datacenter at Delhi and connectivity of remote locations. The Network and Security part was one of the major and critical components of the project and this was the roadway for efficient and secure information data travel. This road way should have sufficient bandwidth to accommodate data of users from different locations to travel without any major bottle necks. At the same time data should travel securely and even if it is hijacked by intruders, they should not be able to read the content. Another major point that was inserted in the design was availability. The requirement was to build sufficient redundancy at each level so that there will not be any down time even at the time of maintenance.

Project Challenge

To design the solution we had to take care of the following points:

i. Type of applications, present and for the near future

ii. Server infrastructure (number of servers and type of servers)

iii. Storage requirement and availability

iv. Distances between the DC, DR & NLDC for datacenter storage redundancy design

v. Availability within the datacenter to the locations (redundancy)

vi. Identification of risk factors to take precautions in our design

vii. WAN bandwidth service provider (Type of interfaces)

viii. Total data flow on WAN bandwidth (present & future)from the locations

ix. Number of ERP and mail users (present & near future) from each location to identify the WAN bandwidth requirement to the main datacenter.

x. Future growth in locations and users

xi. What type of access is required for the users

xii. What level of security is required for different levels of AOC employees

Identification of risk factors to take precautions in our design

xvii.   Identification of security levels for software developers & FM engineers who are outsiders and internal data quality checking officers and higher officials within the AOC-CICP

xviii. Need to identify the number of buildings at all the locations

xix.   Number of users for each building

xx.   Distances between the buildings

xxi.   Total number of users for the Core router and security box

Choice Role and Solution

Choice designed the entire Datacenter at Delhi and Near line Datacenter at Delhi at a different location.

By taking care of all the above points we designed the entire Datacenter at Delhi, Near line Datacenter at Delhi at a different location, Disaster Recovery Center at Pune and 29 remote locations across the country with WAN and Campus-wide Network part. In this design we also took care of performance (connectivity and design without bottlenecks with QoS enabled devices) and security at different levels (port level, access lists, policies, VLANs and VPNs). We prepared entire design RFPs and helped the customer to shortlist the vendors and system integrators.

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About Choice Solutions

Established in 1991 Choice Solutions Ltd. is a leading IT and Facilities solutions provider. Choice Solutions Ltd. business comprises of Six different practices, namely

IMS

- Desktop, Server, Network, Storage, Support, OS, Assets, Apps, Non IT
- Hardware - A-Add, M-Modify, I-Install, C-Change, R-Repair
- Assets, Security, Software Distribution, Upgrades

Networking

- Packaged Services Monitoring & Management
- Products, Security, Design, Deploy, Maintain
- Auditing & Compliance, SOC

Datacenter

- DC Audit, Monitor & Manage, Training
- Assess, Design, Built, Deploy, Disaster Recovery

Consulting

- Business Consulting, CIO & Technology Services, Physical Security, Power Devices, IT Consulting
- DC Consulting, ERP, CRM & Custom Apps

Cloud Computing

- Cold Site – Backup, Disaster Recovery
- Hot Site – HaaS, Software, Manage
- Public Cloud, Private Cloud, Hybrid Cloud
- CaaS, License Software, IaaS
- Disaster Recovery

Power

- Power Audit, Equipment Management
- Physical Security, Power Devices
- Power Saving Devices
- Design & Audit
- Renewable Energy Products

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