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Expanding Client's Infrastructure Through Private Cloud integration with Legacy IBM and Sun Equipment

By:

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Case Study: Expanding Client's Infrastructure through Private Cloud Integration with Legacy IBM and Sun Equipment

The client is an international VoIP service provider with large clientele based in US, Canada, and Latin America.

Executive Summary

The client's IT infrastructure is located partially in on premises datacenter and in a standard colocation datacenter.

Rapid nature of the business and IT dynamics make it difficult to scale up and down processing power and storage capacity without large capital investment. The client ran on outdated hardware and the business model would make OPEX more preferable than CAPEX which made Cloud offer attractive.

At the same time as the client would prefer Cloud solution – it could not realize all the benefits of the cloud offering, as some core components of the infrastructure implemented IBM and Sun hardware.

Client Profile

The client's IT infrastructure consists of number systems including IBM, Sun Solaris, Nextone switches and some mix of Windows and Unix servers.

IBM systems, Solaris systems and Nextones could not be virtualized when everything else was easily virtualizable.

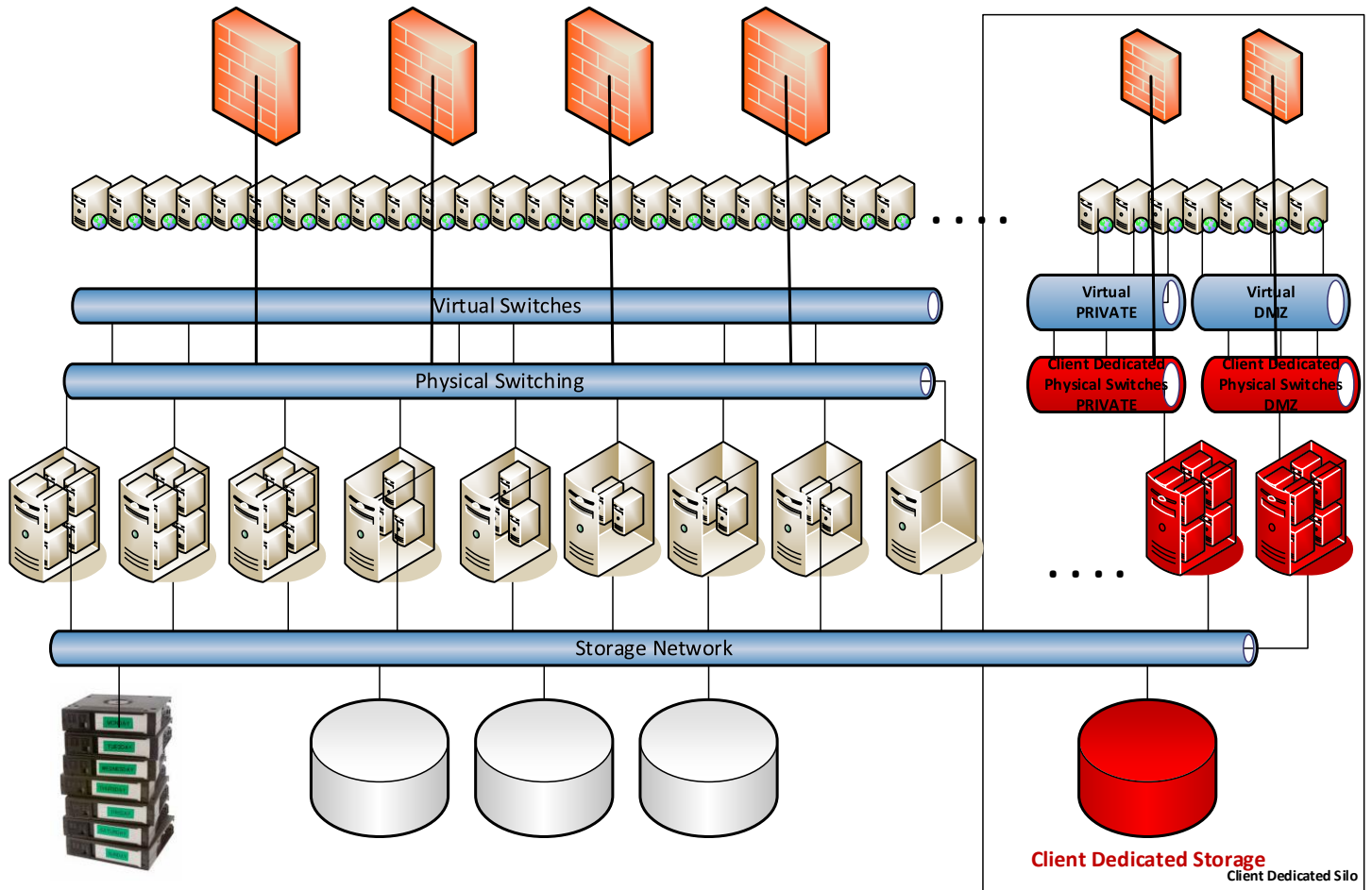
Solutions

Digital Edge is capable of collocating hardware in the same datacenter as our cloud hardware is located, cross-connecting unique client hardware and other system to virtually make them to appear in the same security segment. Digital Edge's implementation consists of:

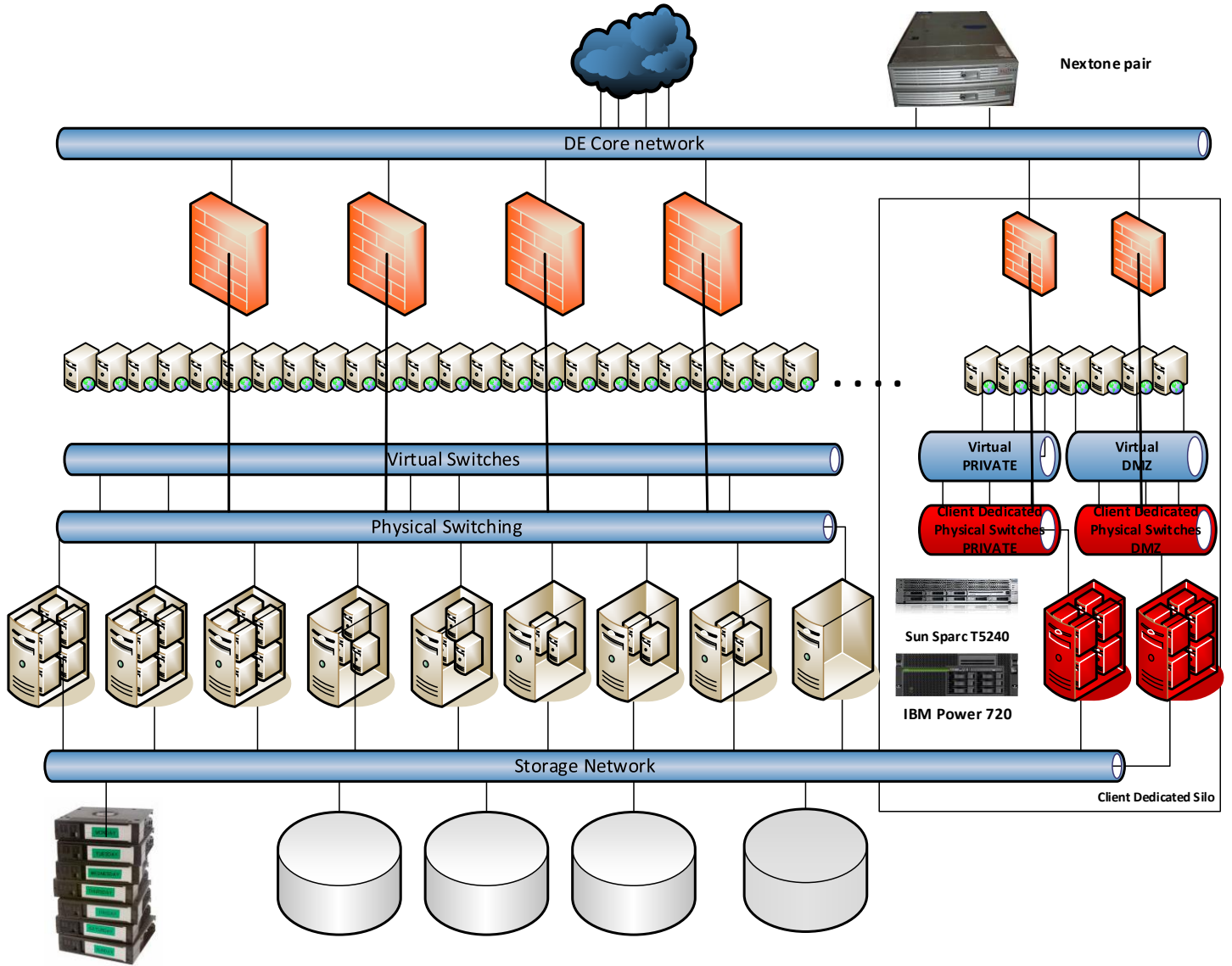
1. Nextone switches located in front of all cloud firewalls to provide low latency for VoIP traffic.
2. All VoIP traffic was insulated, QoS and routed through Tier-1 internet peering partner.
3. All other equipment – IBM server and Sun Solaris server was virtually configured behind Cloud firewalls.
4. Virtual Servers were configured to be part of the same private network.
5. Nextones are feeding CDR packets to the management systems through a dedicated secured channel.

Operational Cases:

1. Digital Edge's Infrastructure below: (Red are private segments, which are dedicated as client silos)



2. The solution for non-standard equipment:



Responsibility Model

| Type of Service | Responsible party |
|-----------------------------------|--------------------------|
| End user support | Client |
| Datacenter (s) | Telehouse |
| Network | Level 3, Verizon |
| Servers | Digital Edge/Client |
| OS | Client |
| Storage | Digital Edge |
| Applications | Client |
| Network Security | Digital Edge |
| System Security | Digital Edge |
| Application Security | Client |
| Monitoring and troubleshooting | Digital Edge/Client |
| Vendor coordination | Digital Edge |
| DBA Services | Digital Edge |
| Data Governance | Client |
| DR | N/A |
| Backup/Recovery | Digital Edge |
| Change control/Deployments | Client |
| Patching | Digital Edge/Client |
| Documentation | Digital Edge/Client |
| Overall IT planning and budgeting | Client |

SLA Terms:

30 minutes response time.

Infrastructure and Technologies:

VMware
EMC
Brocade
Dell
HP
Cisco
Nextone
IBM Power 720
Sun Sparc 5240

Side Notes

The migration was done from Telehouse Datacenter – 25 Broadway, New York, NY. The migration was done within 3 weeks without any downtime.

Price

Total Monthly price: \$ NOT DISCLOSED