Datacipher

Datacipher's Assistance in Critical Network Migration Enables CtrlS to Aim Major Expansion

Summary

CtrlS

Company: CtrlS Datacenters Ltd

Industry: Information Technology and Services

Challenges: With the rising volume of data, maintaining data security becomes essential for large enterprises. Keeping this in mind, Ctrls decided to switch over to reliable and scalable routing devices without any compromise on its downtime policies.

Network solution:
- Network design support
- Migration, installation and implementation
- Support to technical and non-technical issues

Outcome:
Smooth initiation of highly efficient and cost-effective datacenter

Client synopsis

Incorporated in 2007, CtrlS Datacenters Ltd. is India's dominant IT infrastructure and managed hosting services provider, with headquarter in Hyderabad, India. CtrlS is specialized in Datacenter Management, Server Colocation, Disaster Recovery, Storage, Application Hosting, Backup, Hardware, Cloud Services, Platform, Network and Security Solutions. CtrlS is the only certified Tier4 Datacenter operator in India and the largest in Asia. It is one of the most trusted hosting infrastructure and server colocation providers in India, providing its clients the flexibility and efficiency to grow and expand their online business. CtrlS also provides Cloud services to companies where data privacy policy may not permit companies to use shared hardware. CtrlS provides private Cloud services to such companies. Enterprises can even have their servers physically secured in CtrlS infrastructure under high security.

Situation

While the volume of data generation burgeoning each day, it becomes vital for organizations to maintain data security and ensure the precision and uniformity of these data over its entire life cycle. In a world, where data is valuable and data strength is critical, data security cannot be compromised. Today, the need to secure data drives many data center providers to promise speedy solutions, but this often leads to a more complex situation for clients. On one end, these services are very expensive for the client; on the other side, with low prices, there is high chance that they have to compromise on data security. CtrlS emerged as a pioneer in the world of datacenter management by bridging the gap between efficient performance and cost-effectiveness.

Today, CtrlS has 2000 plus small and mid-sized satisfied clients. With such clients expecting effective ways to ensure data security, CtrlS decided to migrate from their existing network to Juniper Network to achieve high performance, scalability, and high availability. So they built their new network using cost-effective MX Series 3D Universal Edge Routers (MX 40). MX 40 runs on high-volume Junos OS and enables Internet data center internetworking.

Solution design

CtrlS opted for Juniper routers for its high performance, cost effectiveness, ease in service provider deployment with space and power constraints. As they were new to Juniper, CtrlS approached Datacipher to support them in the process of migration, network implementation and post integration support. CtrlS shared their network design with Datacipher to help them in the process of migration. During the migration process, CtrlS worked with Datacipher, a trusted partner of Juniper Networks, to achieve the desired result. As part of the project, Datacipher also provided one year post integration support to CtrlS. The professional instructors of Datacipher extended hands on training to the CtrlS engineers for handling highly sophisticated EX, MX and SRX routers.

Project management

The project entitled- Service Provider Migration, was handled efficiently by Datacipher within the stipulated time, as CtrlS being a 24/7 company, couldn't afford to allow service down-time. Glimpses of the approach taken by the Datacipher team:

· Datacipher first procured the previous network design from CtrlS.
· Datacipher team planned the configuration based on the network design shared by CtrlS.
· Datacipher verified the configuration in their own lab first.
· As part of the migration, Datacenter performed BGP peering with most of the ISPs after taking into consideration the downtime policies for BGP links migration and routing database synchronization.
· Special precaution was taken during internal BGP session while handling other datacenter connectivity and 1 hour downtime was used before migrating to the network.
· Few BGP peering issues with ISPs which are mainly due to configuration were observed and taken care accordingly.
· Datacipher had to change parameters from different ISP side as per Juniper standards and later diverted the required traffic to other ISP networks, before the entire modification was complete at the ISP side.
· After successful migration, the Datacipher team configured and integrated the inline J-flow and Mirroring services on MX routers on

"Data security is one the main concerns for most of our clients. Our entire effort to migrate to Juniper Networks from our existing network was aimed at that. We are very happy about the migration support received from Datacipher in realizing our goal."

-Nirmal Kumar, Technical Lead, CtrlS

specific request from CtrlS.

• During the migration process, couple of issues related to monitoring services were identified by the Datacipher team and recommended CtrlS to upgrade the Netflow Analyzers so that it can monitor the ISP traffic in an effective manner.

• Datacipher also configured the DdoS rules to block and deny the traffic from security threat.

• After successful migration to Juniper Networks, all the outputs were tested as recommended by CtrlS.

• Post implementation, Datacipher also provided all sort of network support to CtrlS.

Outcome

Datacipher team comprising Suresh Mudhireddy successfully completed the entire network migration, including configuration planning, testing, mounting, installation, and integration, within the specified downtime policies of CtrlS. After the completion of the project, CtrlS was immediately able to upgrade their services and guarantee the highest availability and least energy consumption.

About Datacipher

Datacipher is offering network design and strategy, implementation, System integration services, security practices and specialized in providing Professional Services Consulting and Certified Training. Datacipher has extended Training & Services Delivery to multiple regions in APAC i.e., India, Australia & New Zealand, Singapore and Philippines. Datacipher is recognized with Award by Juniper Networks for World Wide Highest Customer Satisfaction in 2015, also in APAC by Juniper for three years in a row 2015, 2014 and 2013 as a JNAEP Partner of the Year. Datacipher's Instructors are awarded as Best Trainers by Juniper Networks for 2007-2015 almost every year. Quality is our obligation and we ensure 100% delivery commitment. We consider our success is our Technical Capability. We have highly experienced Engineers with a passion to deliver Services and trainings and access to latest cutting edge technologies. We focus on building the best Testing labs with all latest devices and access methods to ensure certainty in delivery. These are some of the key points that helped us to stay focused in our pursuit of achieving quality and excellence.

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