From Legacy to Leading-Edge: How a Software-Defined Data Center Revolutionized Government IT

Industry: Public Sector
Size & Revenue: 250+ employees

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Empowering Businesses

Business Problem

The client's legacy data center infrastructure couldn't keep pace with growing workloads and applications. Manual network and security processes caused delays, hindering their speed to market and operational efficiency. This outdated approach limited their ability to scale and adapt to evolving business demands, necessitating a more agile, automated solution.

How Intertec Helped

We adopted a consultative approach to design a unified, comprehensive software-defined network and security infrastructure for both the primary data center and disaster recovery sites. Leveraging an industry-proven migration framework, our strategy prioritized minimal business disruption with the following key elements:

- Ensuring uninterrupted operations with minimal downtime during the transition.
- Constructing the new infrastructure alongside the existing one for risk-mitigated migration.
- Executing a seamless migration without added risks or costs.

The solution integrated cutting-edge technologies from Cisco and Palo Alto, enabling service insertion capabilities and micro-segmentation for enhanced security. By further micro-segmenting application services within the same zone, we created a more secure environment, limiting unnecessary communication. Additionally, the software-defined capabilities, including deployment templates, accelerated the deployment of new applications, ensuring greater agility and efficiency.

Business Outcomes Delivered

The implementation of Cisco ACI and Palo Alto technologies transformed the client's IT infrastructure, driving significant improvements in security, agility, and operational efficiency.

- Improved Security: Micro-segmentation enhanced the security posture by controlling east-west traffic and reducing the risk of internal threats.
- Accelerated Deployment: Cisco ACI provided a flexible, low-latency network that enabled rapid application deployment and eliminated the need for complex data center interconnects.
- Secure Multicloud Integration: Advanced zero-trust security and policy enforcement features ensured consistent, scalable protection across multicloud environments.
- Streamlined Operations: Unified policy management and seamless connectivity across data centers and public clouds simplified operations and enhanced overall efficiency.