

HCL

Network transformation of
American multinational Contract
Research Organization (CRO)





Client background

This American multinational Contract Research Organization (CRO) is the only fully integrated biopharmaceutical solutions organization in the world. The company specializes in helping enterprises with late-stage clinical trials. The client hosted their IT infrastructure across two data centers. As a part of their digital transformation initiative, the enterprise wanted to migrate its workloads to multiple clouds.

Challenges

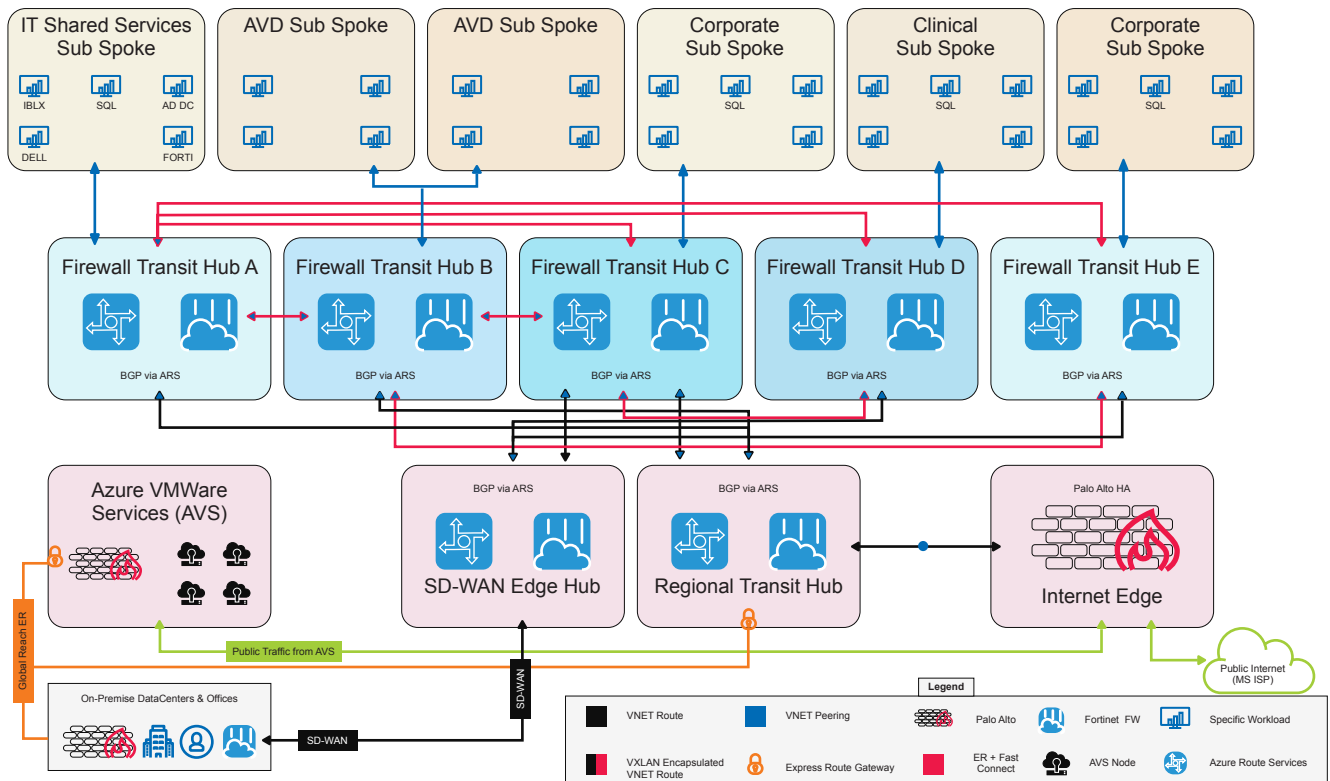
- The client's continuous global expansion plan was deterred by its traditional network infrastructure, which was increasingly becoming redundant, slow, and sluggish
- With the physical region and line of business segregation, the customer was facing huge network performance issues resulting in poor operational efficiency and degraded business performance
- All the network traffic from multiple different branches was traversing via on-premises data centers present on classic layer 2 network architecture, resulting in extremely inefficient and unscalable network infrastructure
- The traditional VPN gateway set up to connect with physical data centers added to the scalability limitations
- The client was incurring a huge CapEx due to their current physical network infrastructure and limited connectivity options



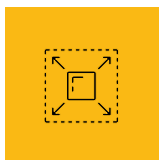
HCL Technologies' solutions

- HCL's Transport Independent Site (TIS) powered SmartNet framework was deployed, which utilized its high-speed cloud service provider backbone network to scale the cloud on-ramp across the globe
- Initial assessment and detailed consulting exercise helped the enterprise understand their overall network infrastructure needs and how a secure, scalable, and internet-first network architecture can add agility to the branch-to-branch and branch-to-cloud network infrastructure
- Secured Microsoft Azure vWAN was deployed along with AVS (Azure VMware Services), Azure Firewall, and networks segmentation
- Phase-wise migration of current workloads was done from the on-premises data center to clouds (VMware on Azure or Azure Native) based on the application compatibility, disaster recovery needs, database, and business requirements
- This was followed by application modernization and network transformation to bring the overall network efficiency, facilitate digital transformation, and improve business performance
- HCL owned the Microsoft Azure network design, Azure vWAN build, and the associated migration of all sites to new WAN architecture

Target Network Design



Benefits



Faster scalability

The network transformation using TIS-based SmartNet framework enabled the client to meet easy scalability and global network demands



Centralized management

A single pane of glass management using centralized, zero-touch control helped in reducing the day-2 operations overhead



Agile and secured networks

HCL's SmartNet framework has intricately utilized the cloud service provider backbone to enable 'Networks on Demand' and secured cloud network posture complemented by quick, flexible, and efficient network connectivity



Cloud network 24*7

HCL's TIS ensured seamless network availability anytime, anywhere. HCL owns the complete network dynamic and leveraged the agnostic advantage to substituting solutions components and partners as and when necessary



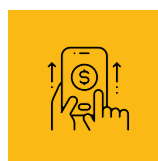
High network performance

Global traffic traversing through high-speed Microsoft backbone based on a distributed network architecture ensured enhanced performance



Programmability

HCL used custom created terraform scripts and python programming to reduce the implementation and onboarding time by more than 80%



Pay-as-you-go

HCL's TIS framework enabled a low-cost OPEX model for the enterprise by reducing dependencies on a single vendor or costly MPLS networks



For more information, please reach out to Contact.NGN@hcl.com



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