OVERVIEW

The customer is a US-based 130 Billion-Dollar Multinational Telecommunication Service Provider. Customer wanted to build an edge infrastructure management solution to manage virtualized and containerized infrastructure.

Services: Cloud, Edge Computing, Network Transformation
**CHALLENGES**

- Manual deployment of increased number of network functions per rack unit due to introduction of containerized micro services resulting in service delivery delays
- Need for a solution to centrally deploy the services to reduce the operational expense of VPN services for small and medium business

**SOLUTION**

1. Kubernetes control plane orchestration for NFVI management
2. Built Multi cluster environment using Calico for networking
3. Configured VPN tunnels between DC Node and Branch office Edge Node
4. VXLAN over VPN for AWS connectivity
5. Enabled traffic steering of 5G application POD
6. API calls to access data from Prometheus
7. ELK instances for Data collection and management

**OUTCOMES**

- 60% TCO Reduction by introducing containerized micro services
- 40% Reduction in VPN service operations for SMB