
EDGE CLOUD ORCHESTRATION AND MANAGEMENT

for a Telecommunication Service Provider



Service: Cloud, Edge Computing, Network Transformation

OVERVIEW

The customer is a US-based **130 Billion-Dollar** Multinational Telecommunication Service Provider. Customer wants to build an Edge Infrastructure Management Solution to manage virtualized and containerized infrastructure.

CHALLENGES



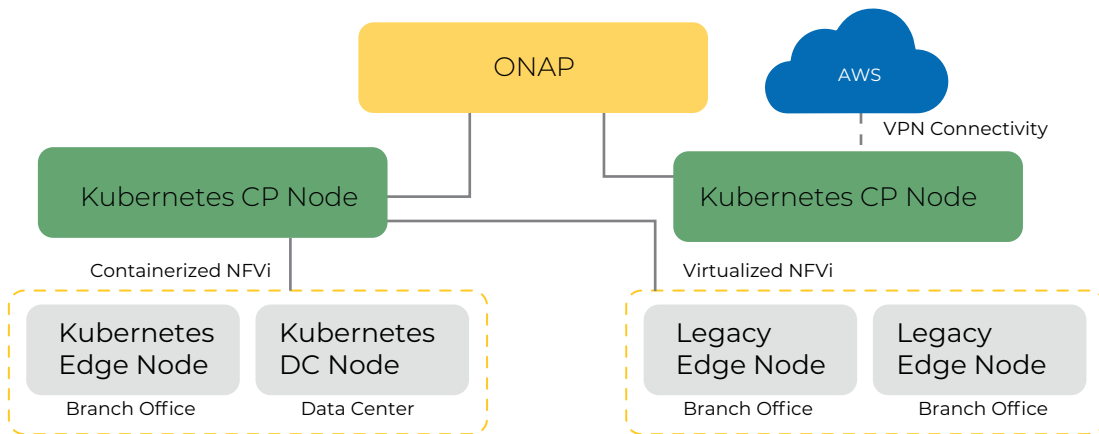
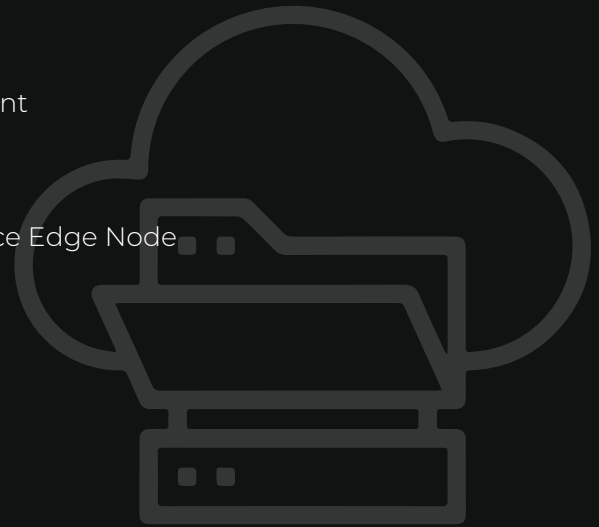
Manual deployment of increased number of network functions per rack unit due to introduction of containerized micro services resulting in service delivery delays



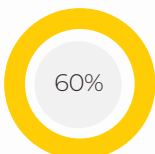
Need for a solution to centrally deploy the services to reduce the operational expense of VPN services for small and medium business

SOLUTION

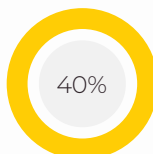
- 1 Kubernetes control plane orchestration for NFVI management
- 2 Built Multi cluster environment using Calico for networking
- 3 Configured VPN tunnels between DC Node and Branch office Edge Node
- 4 VXLAN over VPN for AWS connectivity
- 5 Enabled traffic steering of 5G application POD
- 6 API calls 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