OPEN DAYLIGHT SDN CONTROLLER DEVELOPMENT

for a Telecommunications Company

Services: Professional Services, Cloud, Edge Computing, Network Transformation

OVERVIEW

The customer is a **$26 bn** Australian Telecommunications Company that builds and operates telecommunications networks. They are using Open Day Light SDN Controller for Managing Virtual Infrastructure. Customer wants to create service chaining for both bare metal and VM workloads for Intra DC L2 services.

CHALLENGES

Need to establish the Underlay and Overlay Communications between bare metal servers and virtual machines

Inability of the SDN Controller to communicate with L2 Devices due to configuration limitations

SOLUTION

1. **Design:** Hardware VTEP Gateway (on TOR switches) for bare metal and VM workloads to create Intra DC L2 Services
2. **Build:** Development of ODL modules for L2VPN NAT Manager, ARP responder and IPv6 support for overlays (VxLAN, MPLS). DPDK Adaptation and ODL migration to oxygen from boron
3. **Deploy:** SDN overlay integration with VMWare. E-VPN for inter datacenter deployments to support NAT manager. Policy-based routing by using open flow v1.0.Neutron based BGP VPN Orchestration

OUTCOMES

90%
Reduction in OPEX by using Open Day Light SDN Controller

50%
Faster Service integration and Service Provisioning in a DataCentre environment

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