

TFDx - Apstra

Mansour Karam

Corporate update

- dozens of f50, 500 and global 2000 customers
- 100+ headcount globally
- customers across North America, EMEA and APAC
- deployed at scale by both enterprises and Webscale providers

The Problem - **digital transformation requires infrastructure transformation**

- business agility
- application reliability
- control costs

Powerful automation, distributed centres of data, hybrid and multi-cloud, multi-vendor and agnostic

Service Layer

- Multi workload
- multi cloud
- multi domain

The system and the services that the boxes have to deliver

A lot of organisations start with choosing their hardware - all other choices are derived from that choice, including the software. You're constrained by the software from that vendor.

Transformation from "hardware first" to "software first"

Apstra - founded in 2014

Intent-based networking

L3 - self-operation

L2 - real-time change validation

L1 - single source of truth

L0 - basic automation

You cannot heal what you cannot root cause

AOS 3.1 key capabilities

- NSX closed-loop integration of overlay and underlay fabric
- MTTR acceleration

ROI

83% OPEX improvement

99% infrastructure agility

70% application reliability

\*Claire Delcourt

Fabric connectivity requirements for NSX-T deployments

Without proper automation and visibility

Slows down deployments

Lack of efficient automation

- physical and logical topologies are decoupled but dependent

- error-prone

- no end to end validation

Reduces Operational Agility

Lack of visibility

- complex troubleshooting

- lack of operational agility

Using AOS to accelerate initial and day 2 fabric configuration

Deploying new racks and L2/L3 fabric VLANs at scale in a few clicks

- streamline new rack design and deployment

- automate fabric VLAN deployment

- Closed-loop validation (endpoint configuration, EVPN routes expectations)

- include jumbo frame configuration for overlay networks

Built-in end-to-end validations and fast remediation

- collect intent

- expose intent

- validate

- remediate

Direct visibility

- understand where critical applications are

- understand how network failures affect applications

Extend security rules fro physical servers

- NSX-T (enforces rule on transport and edge nodes)

- AOS (enforces rule on fabric network)

\*Demos

\*Rags Rachamadugu

\*Demos