

IT DRIVERS: AGILITY AND ECONOMICS







Clouds

Big Data

Driving IT Transformation

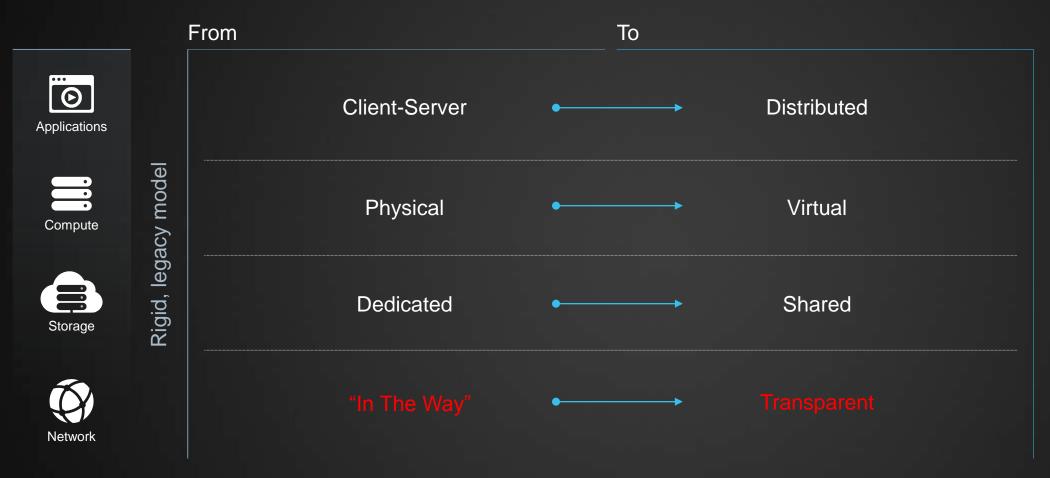






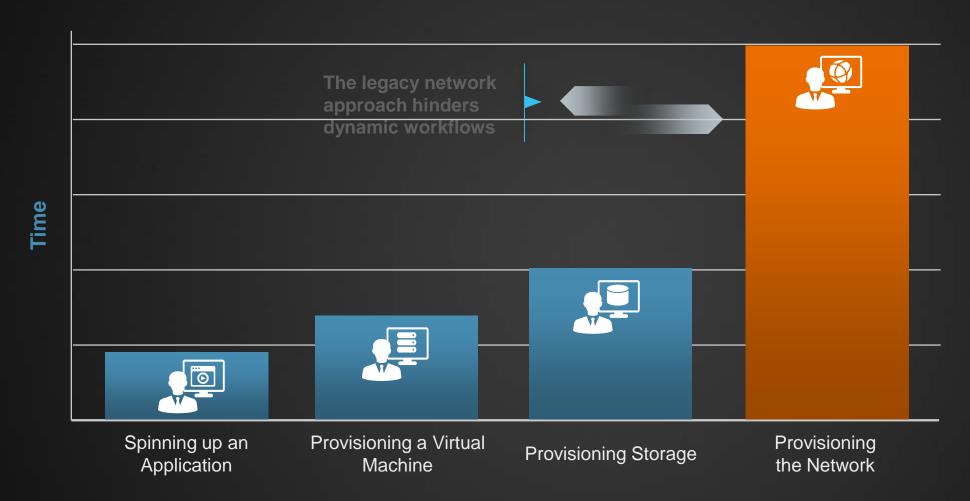
SDN

Flexible, agile model



Flexible, agile model

PUTTING THE NETWORK CHALLENGES IN REAL TERMS



ADDRESSING COMPLEXITY TOP DOWN & BOTTOM UP

SDN-Ready Platforms



Simplified architectures and broad protocol & orchestration support designed for dynamic workloads

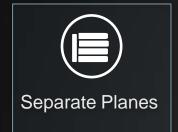
SDN-Optimized Operations



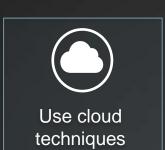
Change from element management to workflows

JUNIPER'S SDN STRATEGY

6 - GENERAL PRINCIPLES













4 – JUNIPER STEPS



Centralize Management



Extract Services



Centralize Controller



Optimize the Hardware

1 – NEW LICENSING MODEL

JUNIPER SOFTWARE ADVANTAGE

Full Use/Elastic

Transferable

Software Lifetime Assurance

WHAT WE'RE WORKING ON

SDN Protocols

OpenFlow

PCEP

BGP

VXLAN

Services Virtualization

Junos V App Engine

> Service Chaining

Controller & Orchestration

Contrail Controller Technology

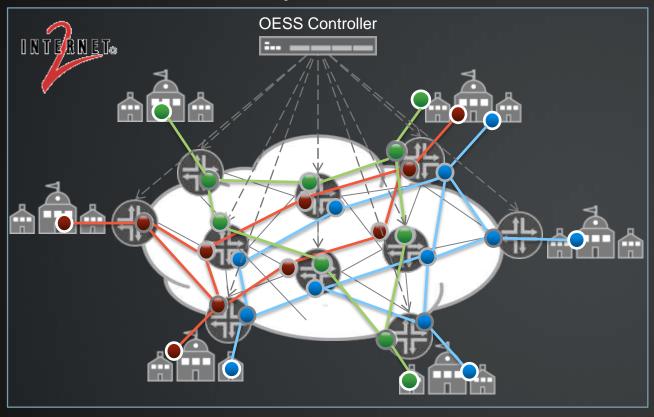
OpenStack

OpenDaylight

VMware

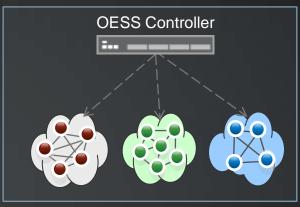
USE CASE: PROGRAMMING NETWORK FLOWS

Physical View



End point memberships and virtualized network resources are programmed on MX3D via OpenFlow

Logical View

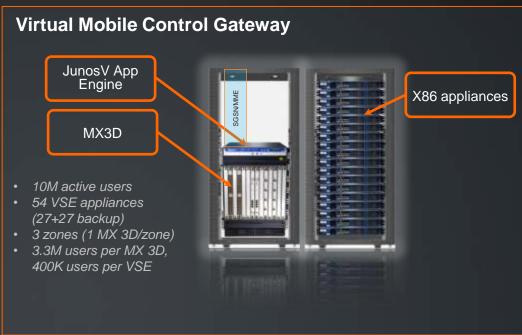


Characteristics

- Programmable, Virtualized Network Resource Pool
- Centralized e2e view
- Dedicated & Isolated Network Resources

USE CASE: RAPID SERVICE DEPLOYMENT





Financial Benefits

- 54% lower TCO
- 65% lower OpEx
- 53% lower CapEx

Development Time & Cost

- 46% faster initial deployment
- 61% less initial deployment cost
- 87% faster capacity additions
- 92% less capacity addition cost

Operational Benefits

- 73% less environmental cost
- 72% less operator training cost
- 63% OA&M cost

USE CASE: VIRTUALIZED DATA CENTER

- Silo'ed Resource Allocation
- Manual Configuration
- Static Service Chains

- Dynamic Resource Allocation
- Automatic Configuration
- Dynamic Service Chains

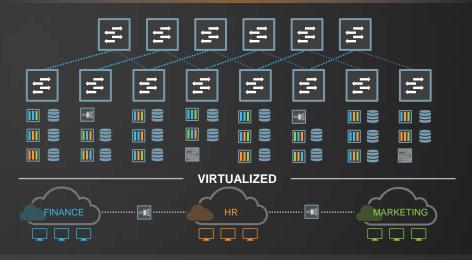
70% TCO Reduction

95% Lower Time-to-Revenue

TRADITIONAL DATACENTERS

Firewalls Load-Balancer VLANS VLANS VLANS VLANS Local Hard MARKETING Drives

VIRTUALIZED DATACENTERS



Virtual-Network based Orchestration (Compute, Storage, Apps)

SUMMARY

