Virtual Broadband Network Gateway (vBNG)

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vMX Product Overview
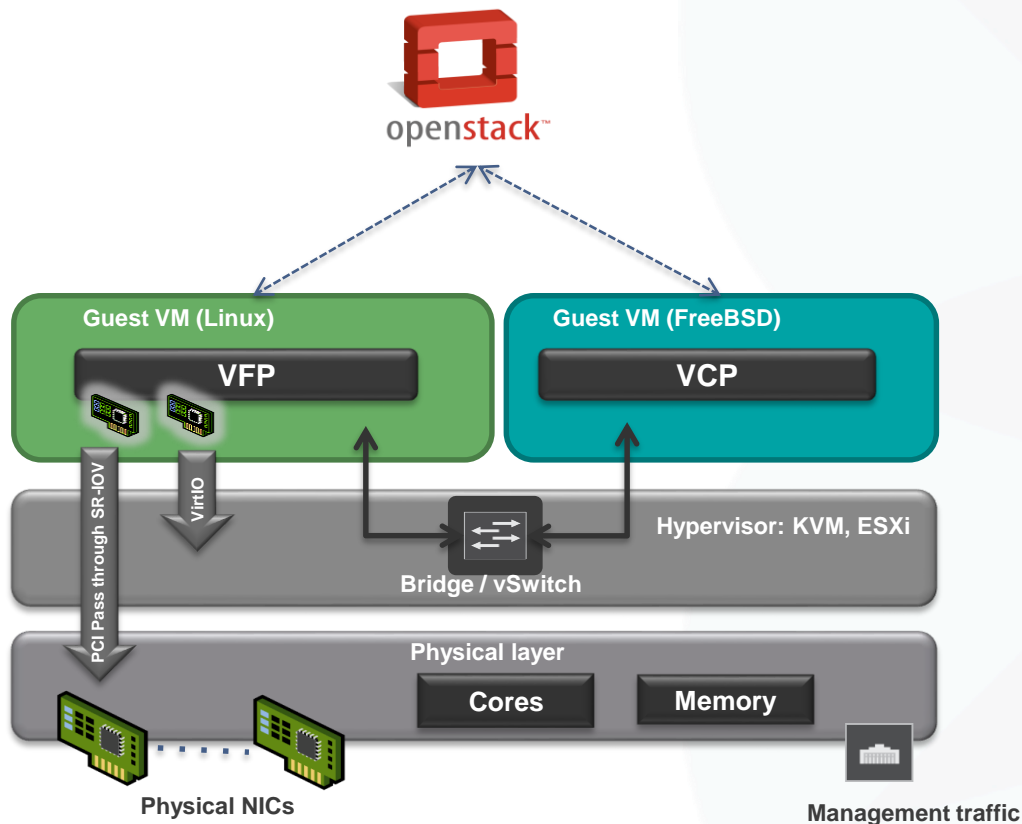
Virtual Control Plane (VCP)
- JUNOS hosted in a VM. Offers all the capabilities available in JUNOS
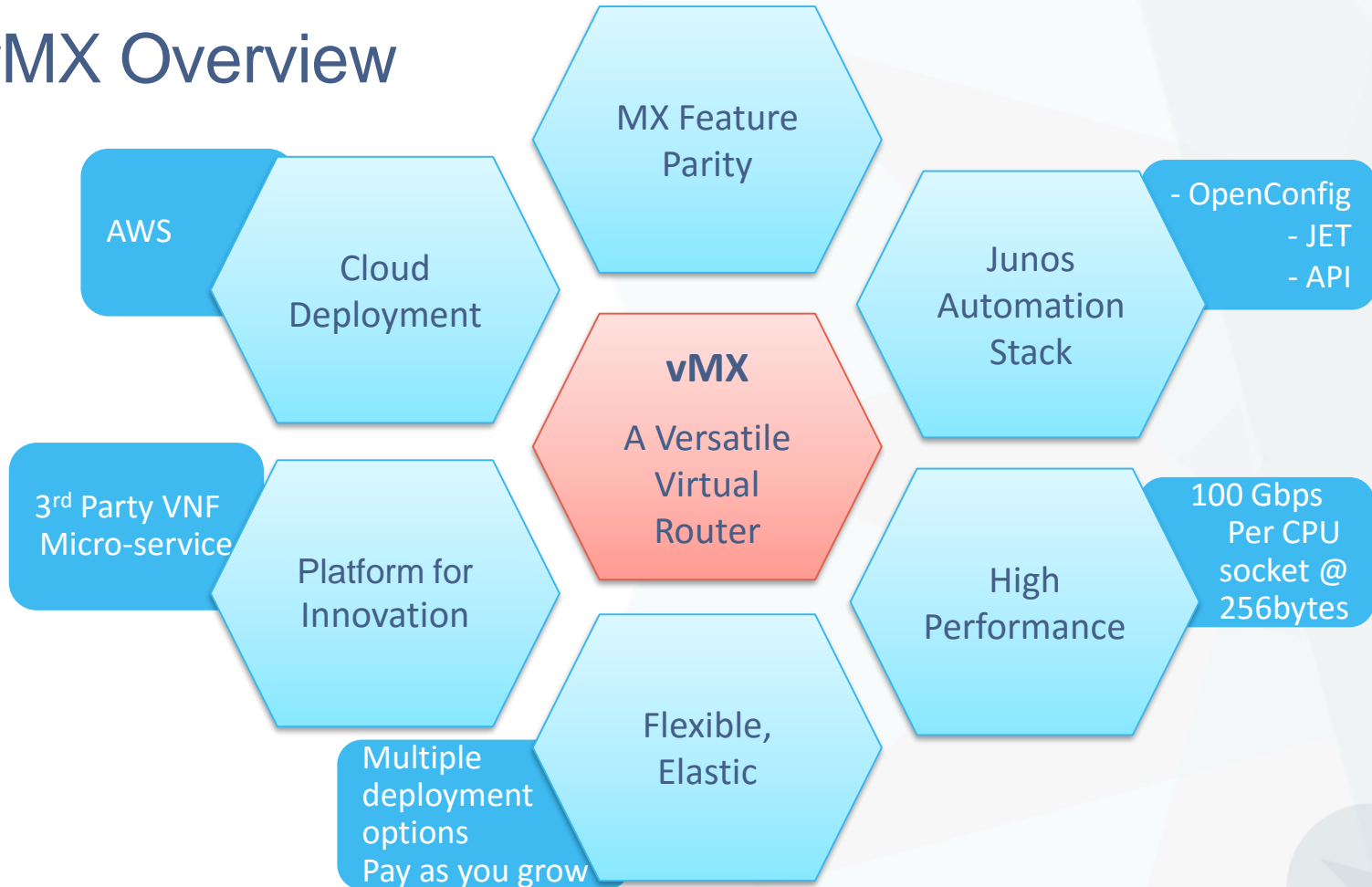- Management remains the same as physical MX
- SMP capable

Virtual Forwarding Plane (VFP)
- Virtualized Trio software forwarding plane. Feature parity with physical MX. Utilizes Intel DPDK libraries
- Multi-threaded SMP implementation allows for elasticity
- SR-IOV capable for high throughput
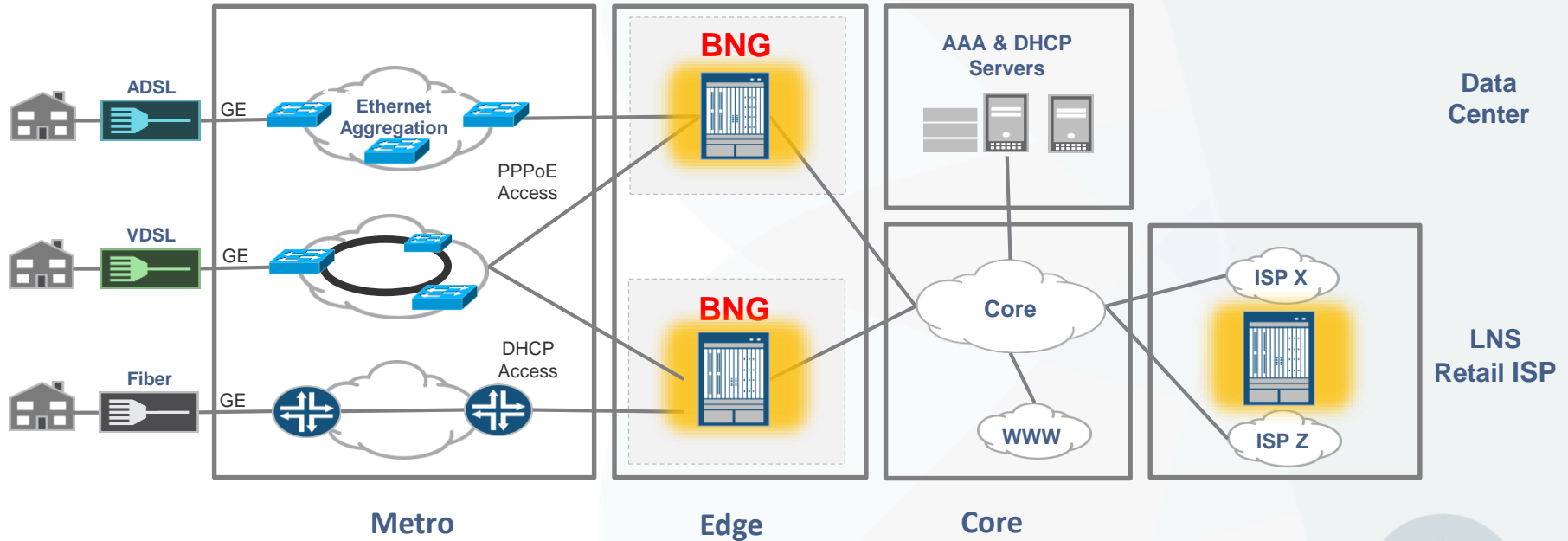- Can be hosted in VM or bare-metal

Orchestration
- vMX instance can be orchestrated through OpenStack HEAT templates
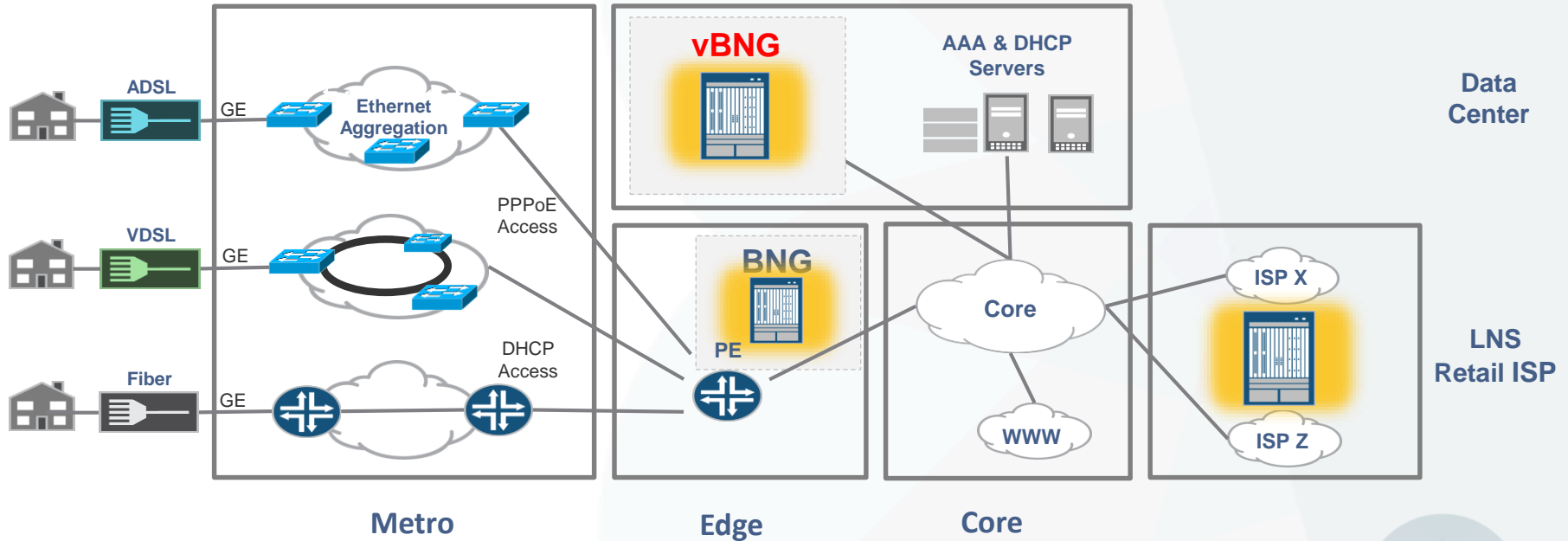- Package comes with scripts to launch vMX instance
- VMware ESXI

vMX Overview

MX Feature Parity

AWS

Cloud Deployment

Junos Automation Stack

- OpenConfig
- JET
- API

vMX

A Versatile Virtual Router

3rd Party VNF Micro-service

Platform for Innovation

High Performance

100 Gbps Per CPU socket @ 256bytes

Multiple deployment options Pay as you grow

Flexible, Elastic

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Transition from BNG to vBNG

ADSL

VDSL

Fiber

GE

GE

GE

Ethernet Aggregation

PPPoE Access

DHCP Access

BNG

BNG

AAA & DHCP Servers

Core

WWW

ISP X

ISP Z

Data Center

LNS Retail ISP

Metro

Edge

Core

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Transition from BNG to vBNG

Transition from BNG to vBNG

Thank you