Virtual Switch Platform X

Guohan Lu Shuotian Cheng
Virtual Environment

Ubuntu 18.04 Server
10G memory/8 cores/hardware virtualization

SONiC KVM
vlab-01
10.250.0.101

Server Network Configurations

sonic-mgmt docker
docker bash
root/root

sonic-ptf docker
10.250.0.102

docker
sonic
- ptf
docker

admin/123456

Arista EOS image
ARISTA01T1
10.250.0.51

10.0.0.57

10.0.0.59

10.0.0.61

10.0.0.63

root/root
docker bash
Motivation

FLEXIBILITY

Support X - NOS

Unify Route Emulation Framework

EOS
SONiC
IOS
JUNOS
Challenge
EXTENSIBILITY

Ansible
• Create specific templates for SONiC peer
• Support peer selections based on the type – SONiC/EOS/etc.

SONiC
• Create specific configuration for peer
• Learn routes from ExaBGP and advertise to DUT

ExaBGP
• Install ExaBGP and simulate production routes
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sonic-mgmt docker
10.250.0.102

sonic-ptf docker
10.250.0.102

ExaBGP

SONiC KVM
SONICVM0100
10.250.0.51

SONiC KVM
SONICVM0101
10.250.0.52

Arista EOS image
ARISTAVM0102
10.250.0.53

Arista EOS image
ARISTAVM0103
10.250.0.54

Server Network Configurations

Advertise Routes

ExaBGP

Advertise Routes
Thanks