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~~EVPN Introduction
\u0026 Principles
EVPN Cisco EVPN
Part1 (Simple
VXLAN example)
10Min Simplified:
Why EVPN/VXLAN?
Orhan Ergun Jeff
Tantsura
Networking Talk 1~~

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Bgp Evpn And

~~RIFT, IGP, BGP,~~

~~EVPN, DC Design,~~

~~Intent Based~~

~~Network BGP EVPN~~

~~in Datacenter and~~

~~Layer 3 Data~~

~~Center~~

~~Interconnect~~

~~VXLAN | Part 6 -~~

~~BGP EVPN~~

~~Configuration on~~

~~Nexus 9000~~

VxLAN | Part 1 -

How VxLAN Works

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~~VXLAN BGP EVPN~~

~~L2VNI (Episode 1)~~

Spine-Leaf

architecture with

Cisco NXOS 9K

switches running

BGP EVPN VXLAN

Real Life

Datacenter

Migration

Discussion - 4

Datacenters were

involved in this

design! VXLAN BGP

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Using VXLAN To
Span One Data
Center Across Two
Locations

**Ethernet
to EVPN story |
Service provider
network
evolution
Building Scalable
Data Centers:
BGP is the Better
IGP**

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VxLAN | Part 2 -

Header Format and
Encapsulation

VxLAN BGP EVPN |

Part 2/5 | Cisco

Nexus 9000

Configuration

exampleControl

plane learning

Segment Routing

Controller

Overview

Demystifying

DataCenter CLOS

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networks ~~SD-WAN~~ **Nexus**

vPC | How vPC

works ~~VXLAN:~~

~~Topology Overview~~

Huawei New IP

Technology -

VXLAN What is

EVPN on Huawei

NE40E **Nokia SR-**

OS: 8 -

Configuring a

VPRN ~~EVPN~~

~~Framework for~~

~~Campus Networks~~

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Cisco EVPN Part 3

(VXLAN with MP-
BGP) 10Min

NANOG 68 VxLAN

BGP EVPN

Networking Field

Day Exclusive

Cisco Service

Provider EVPN BGP

Services with Jiri

Chaloupka

Building blocks in

EVPN for multi

service fabrics

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~~VXLAN BGP EVPN~~

~~Bgp Evpn And Sr~~

~~De~~

A single BGP session is used to carry both Segment Routing (SR) and EVPN prefixes. BGP Labelled Unicast with Segment Routing is used as underlay and BGP MPLSoEVPN is used

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for overlay. BGP
Segment Routing
PrefixSID is used to
advertise the
NodeSID of the
provider edge (PE)
device.

~~CVP – BGP EVPN
and Segment
Routing on Cisco
ASR 1000 ...~~
EVPN (RFC 7432) is
BGP MPLS-based

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Solution that has

been used for next-generation

Ethernet services

in a virtualized

data center

network. EVPN

uses several

building blocks

such as RD, RT,

and VRF from MPLS

technologies that

exist. L3 EVPN over

SR which was

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Bgp Evpn And
introduced in NXOS
7.0(3)I6(1) release
uses the EVPN
Type-5 route with
MPLS
encapsulation.

~~Deploy Layer3
EVPN over SR MPLS
[Ospf / iBGP] [PE-
CE is ...~~

Establish BGP EVPN
peer relationships
between any DC-

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L2GW/L3GW. The DC-GW can then advertise local loopback routes and default routes to the L2GW/L3GW. A route-policy needs to be configured on DC-GWs so that the routes sent by DC-GWs to L2GW/L3GWs carry

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SR-DC Fabric
gateway addresses
and the next hops
of the mobile
phone routes
received by
L2GW/L3GWs from
DC-GWs are the
VNF addresses.

~~Configuring the
NFVI Distributed
Gateway Function
(BGP ...~~

bgp-evpn-and-sr-dc-

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Fabric is used for
overlay. BGP
Segment Routing~~

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PrefixSID is used to
advertise the
NodeSID of the
provider edge (PE)
device. Bgp Evpn
And Sr Dc Fabric -
mx.netwood.net
Moving on, Aldrin
mentioned BGP
next hop handling
on EBGP sessions:
Page 6/25

~~Bgp Evpn And Sr~~
Page 20/46

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~~wpbunker.com~~

Moving on, Aldrin mentioned BGP next hop handling on EBGP sessions: Hopefully folks also know that when using EBGP with EVPN, it's important that intermediate EBGP hops do not rewrite the protocol next-

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hop set by the
egress PE since we
need the VXLAN
tunnels to be
addressed to the
correct egress PE
and not
somewhere short
of that.

~~The EVPN/BGP
Saga Continues~~ ←
~~ipSpace.net~~ blog
will get the bgp

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evpn and sr dc fabric. However, the collection in soft file will be in addition to simple to get into every time. You can endure it into the gadget or computer unit. So, you can atmosphere fittingly easy to overcome what call

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~~Dc Fabric~~

To provide L2

extension between

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both DC's MP-BGP

EVPN needs to be
configured

between these two
locations to allow

exchanging BGP

EVPN end-host and
prefix availability

information. To do

so, the following

config is applied on

the spine1-dc1 and

spine1-dc2

switches

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Statically, which

provides transport

for ipv4 and evpn

between both

location. There is

no requirements to

run eBGP for ipv4

between DC1 and

DC2 however it

make sense to

avoid mutual

redistribution

between different

routing ...

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~~Arista BGP~~

~~EVPN+VXLAN for~~

~~DCI - netmindblog~~

5.2.2.2.2. Use of
bgp-evpn, bgp-ad,
and Sites in the
Same VPLS

Service. All bgp-
evpn (control plane
for a VXLAN DC),
bgp-ad (control
plane for MPLS-
based spoke-sdps

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connected to the WAN), and ONE site for BGP multi-homing (control plane for the multi-homed connection to the WAN) can be configured in one service in a specified system.

~~5. Ethernet Virtual Private Networks (EVPNs)~~

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VXLAN Support on
Cisco Nexus 9000
Series Switches
The MP-BGP EVPN
control plane for
VXLAN was
introduced in
Cisco® NX-OS
Software Release
7.0(3)I1(1) for
Cisco Nexus 9000
Series Switches. In
NX-OS 7.0(3)I1(1),

Download Free
Bgp Evpn And
the Cisco Nexus
9300 platform
switches support
both the MP-BGP
EVPN control-plane
functions and the
VTEP data-plane
functions.

~~Deploy a VXLAN
Network with an
MP-BGP EVPN
Control Plane ...
Loopbacks for the~~

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SR/MPLS handoff solution. BGP EVPN session. The ACI border leaf and the DC-PE use a BGP EVPN session to exchange VPN prefixes, VPN labels, and BGP communities, such as the color community. In this document, a BGP

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between the ACI border leaf and DC-PE is also referred as overlay connectivity.

~~Cisco Application Centric Infrastructure~~

~~Cisco ACI SR ...~~

EVPN (RFC 7432) is BGP MPLS-based solution that has

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SD Fabric
been used for next-generation Ethernet services in a virtualized data center network. It uses several building blocks such as RD, RT, and VRF from existing MPLS technologies. L3 EVPN over SR which was introduced in NXOS

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release uses the
EVPN Type-5 route
with MPLS
encapsulation.

~~Deploy Layer3
EVPN over
Segment Routing
MPLS [Ospf / iBGP~~

...

EVPN (RFC 7432) is
BGP MPLS-based
solution that has

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SR Do Fabric
been used for next-generation Ethernet services in a virtualized data center network. It uses several building blocks such as RD, RT, and VRF from MPLS technologies that exist. L3 EVPN over SR which was introduced in NXOS 7.0(3)I6(1) release

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uses the EVPN
Type-5 route with
MPLS
encapsulation.

~~Deploy Layer3
EVPN over
Segment Routing
MPLS [Ospf / iBGP~~

...

- EVPN overlay in DC combined with SR-TE for DCI is technologically

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ready and makes
sense for these use
cases.

~~Segment Routing
for DCI - NANOG~~
In the following
excerpt
configuration the
PE1 will advertise,
in BGP EVPN, the
172.16.0.0/24 and
200::/64 prefixes in
two separate

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SLRIs. The NLRI for the IPv4 prefix will use GW IP = 0 and a non-zero GW MAC, whereas the NLRI for the IPv6 prefix will be sent with GW IP = Link-Local Address for interface "int-evi-301" and no GW MAC.

5.51. Configuring

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On the other hand, VxLAN with MP-BGP EVPN AF has some great functionalities that can be leveraged for DCI solution, if we understand its shortcomings. Flood and Learn VxLAN may be used for

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VxLAN MB-BGP
EVPN is taking a
big step forward
with its Control
Plane and can be
used for extending
the Layer 2 across
multiple sites.

~~28 — Is VxLAN with
EVPN Control Plane
a DCI solution for~~



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In the NFVI telco cloud solution, the NFVI distributed gateway function allows mobile phone traffic to be processed by vUGWs and vMSEs and transmitted over a DCN through E2E SR tunnels as well as being transmitted within a DCN in

Download Free Bgp Evpn And load balancing mode.

~~Configuring the
NFVI Distributed
Gateway Function
(BGP ...~~

```
router bgp 100
router-id
172.16.1.1 address-
family ipv4 unicast
address-family
l2vpn evpn
neighbor
```

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```
172.16.2.2 remote-  
as 100 update-  
source loopback0  
address-family ipv4  
unicast address-  
family l2vpn evpn  
send-community  
send-community  
extended neighbor  
172.16.3.3 remote-  
as 100 update-  
source loopback0  
address-family ipv4  
unicast address-
```

Download Free
Bgp Evpn And
family l2vpn evpn
send-community
send-community
extended ...

~~DCI using VXLAN
with MP BGP EVPN
and Ingress
Replication ...~~

Dc Fabric Bgp Evpn
And Sr Dc Fabric
Right here, we
have countless
book bgp evpn and

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novel, scientific
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