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mobile applications
and IoT present many
new possible entry
points for security
breaches that are not
protected by legacy
security infrastructure.

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This design guide

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describes an Arista solution for providing simple, robust, and cost-effective data center interconnection (DCI) that enables layer-2 services to be bridged between multiple sites over existing layer-3 IP networks. This solution is completely standards-based and can be deployed over existing routed TCP/IP transport networks.

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The Arista Universal Cloud Network Design Guide is based upon common use cases seen from real customers. The UCN Design guide shows a set of solutions, features, and applications that are leveraged to meet the customer's demands.

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...

This design guide
describes an Arista
solution for providing
simple, robust, and

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cost-effective data center interconnection (DCI) that enables layer-2 services to be bridged between multiple sites over existing layer-3 IP networks. This solution is completely standards-based and can be deployed over existing routed TCP/IP transport networks.

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Data Center Fabric.

The first piece is F16, Facebook's next-generation data center fabric design. It has four-times the capacity of the earlier design, and it's more scalable and simpler to ...

Arista Helps Facebook Reimagine Its Data Centers - SDxCentral

Design Guide 6 The concept behind Arista's Universal Spine is: •

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Build a spine that meets the needs of all Data Centers • Reliable and simple to operate

- Interoperate with any and all vendors' equipment, leaf switches, firewalls, Application Delivery Controllers etc.

Layer 2 Leaf & Spine Design and Deployment Guide

The Arista Data Center design uses an Anycast default gateway

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insertion technique known as Virtual Address Resolution Protocol or VARP. On a MLAG pair both switches coordinate the advertisement of an identical MAC and IP address (the VARP address) for the default gateway on each segment.

Layer 3 Leaf & Spine Design and Deployment Guide

All Arista reference

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designs revolve around common central design goals. Simplified Standards-based Architecture: Arista is an established leader in data center network architectures designed for consistent performance, deterministic latency, and easy troubleshooting regardless of workload and deployment sizes.

VMware and Arista

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**Network
Virtualization
Reference Design ...**

Arista Networks was founded to pioneer and deliver software-driven cloud networking solutions for large data center storage and computing environments. Arista's award-winning platforms, ranging in Ethernet speeds from 10 to 100 gigabits per second,

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Software Driven
Cloud Networking -
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Traditional three-tier data center design The architecture consists of core routers, aggregation routers (sometimes called distribution routers), and access switches. Between the aggregation routers and access switches, Spanning Tree Protocol is used to build a loop-free topology for the

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Layer 2 part of
network.
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Cisco Data Center Spine-and-Leaf Architecture: Design

...

A good rule-of-thumb in a modern data center is to start with an oversubscription ratio of 3:1. Features like Arista Latency Analyzer (LANZ) can identify hotspots of congestion before it results in service

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degradation (seen as packet drops) allowing for some flexibility in modifying the design ratios if traffic is exceeding available capacity.

ARISTA WHITE PAPER Cloud Networking: Scaling Out Data ...

F16 and HGRID are the topologies, and Minipack and the Arista 7368X4 are the platforms that are the

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core of our new data center network. They all bring significant improvements in power and space efficiency and reduce complexity in the overall network design, while building upon readily available, mature 100G optics.

Reinventing our data center network with F16, Minipack

...

Refer to the following document for a VXLAN

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deep dive: Arista DCI with VXLAN design guide VXLAN bridging and routing Why do we need Data Center Interconnect? A requirement for businesses is to operate multiple, geographically dispersed data centers.

Arista EOS Central - Author - Mo

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Published on February 4, 2015 February 4,

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Interconnection with VXLAN, design guide

The focus in this design guide is VxLAN as the protocol for the data-plane encapsulation for the overlay tunnels, and the functionality of the Multiprotocol BGP (MP-BGP) EVPN address-family for

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control plane signaling
in the overlay.

**Arista EOS Central -
Category - VXLAN**

Introduction This document describes the operation and configuration of BGP EVPN Services over a VXLAN (Virtual eXtensible LAN) overlay on Arista platforms. The focus in this design guide is VxLAN as the protocol for the data-plane

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encapsulation for the overlay tunnels, and the functionality of the Multiprotocol BGP (MP-BGP) EVPN address-family for control plane signaling in the overlay.

Arista EOS Central - Tag - EVPN

The benefits of BGP including fast fallover and sub-second convergence are covered in RFC7938 and L3LS Design &

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Deployment guide;
links quoted earlier in
the thread. The key to
fast convergence is
running eBGP single-
hop sessions over
direct point-to-point
Leaf-Spine routed links
on 10/40/100G
Ethernet which
inherently offers Link
Fault Signaling.

Arista EOS Central - Spine-Leaf BGP EVPN Best Practice

Data center network

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design moves from tree to leaf Leaf-spine designs are pushing out the hierarchical tree data center networking model, thanks to the popularity of Ethernet fabric networks. Arista EOS support hardware for Leaf (ToR), Spine, and Spline data center design layers.

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