

Data Center Layer 2 Interconnect Technology



Overview

Layer 2 data center interconnect technologies enable the extension of VLANs across multiple data centers, creating a shared Layer 2 domain that simplifies workload migration and application deployment. In essence, DCI facilitates the transfer of data, applications, and services across multiple sites, ensuring high availability. Layer 2 Data Center Interconnect allows organizations to extend VLANs, bridge domains, or Ethernet segments between geographically separate data centers. The design choice has a direct impact on latency, failure domains, operational complexity, and. This document is intended to help network managers and systems managers understand the various solutions and recommendations that Cisco offers to geographically extend Layer 2 networks over multiple distant data centers while addressing the requirements of high performance and fast convergence.



Article Content

Cisco Nexus 9000 Series NX-OS Interfaces Configuration Guide,

Example of Layer 2 Data Center Interconnect Data Center Interconnect (concept)
Data Center Interconnect (DCI) is a

Layer 2 Data Center Interconnect options

Organizations use Layer 2 Data Center Interconnect when they need the same Ethernet segment, VLAN, or

Intra-data center interconnects, networking, and architectures

This leads to a discussion on the advantages and limitations of different technologies in data centers. Finally, we present our

Layer 2 Data Center Interconnect options

Layer 2 Data Center Interconnect extends VLANs and Ethernet services between sites so workloads, storage

Cross-Site Interconnect, now GA, simplifies L2 connectivity | Google ...

Cross-Site Interconnect is a unique and compelling solution for businesses seeking reliable, flexible, and transparent

Data Center Interconnect Design Guide for Virtualized Workload ...

The Virtual Ethernet Modules (VEMs) representing the "linecards" of the distributed Virtual Switch are "stretched" across

Configuring Layer 2 Data Center Interconnect

The following is an example configuration of a Layer 2 Data Center Interconnect (DCI) with use of vPC. The example allows for First

Data Center Interconnect Solution Overview

This category includes technologies like virtual Port-Channel (vPC) or Virtual Switching Systems (VSS), originally deployed for intra

Configure a Layer 2 vPC Data Center Interconnect on a Nexus ...

This document describes how to configure a Layer 2 (L2) Data Center Interconnect (DCI) with the use of a Virtual Port

External Routing with Layer-2 Data Center Interconnect (DCI)

Design Requirements Layer-2 DCI is the least desirable data center interconnect solution , as it extends a single broadcast domain

Data Center Interconnect: Layer 2 Extension Between Remote Data

This document initially describes the types of connectivity (Layers 2 and 3 and storage) that can be established between remote data

Layer 2 Data Center Interconnect options

All Layer 2 Data Center Interconnect technologies discussed so far are industry standards. Let us now look into two

Data Center Interconnection with VXLAN

This design guide describes an Arista solution for providing simple, robust, and cost-effective data center interconnection (DCI) that

Data Center Interconnect (DCI) — Design

Layer 2 data center interconnect technologies enable the extension of VLANs across multiple data centers, creating a shared Layer

Layer 2 Extensions | Technical Guides

Layer 2 Extensions Layer 2 extension from one data center to another typically supports an application or a system that requires

Configuring Layer 2 Data Center Interconnect

Configuring Layer 2 Data Center Interconnect This section contains an example of how to configure a Layer 2 Data Center

Cisco Data Center Infrastructure 2.5 Design Guide

As data center consolidations occur, these business units/departments begin to share common floor and rack space.

DCI Design Models | From Layer 2 to Layer 3 Explained

Explore DCI design models from L2 to L3 with key differences, benefits, and deployment strategies for modern data

Cross-Site Interconnect, now GA, simplifies L2 connectivity | Google ...

Cross-Site Interconnect, now GA, offers managed layer 2 connectivity over Google infrastructure to simplify WAN

Data Center Interconnect: A Guide to DCI and Connectivity

Explore how data center interconnect works, and what to consider when connecting facilities, clouds, carriers, and

Data center interconnects rife with application challenges

While data center interconnects are often considered a solved problem, you might want to re-examine your DCI

What is Data Center Interconnect (DCI)?

Data Center Interconnect (DCI) technology connects two or more data centers together over short, medium or long distances using

Layer 2 Data Center Interconnect

In this article, two approaches to designing a L2 DCI over a L3 underlay are discussed. High-level technical details of each design

Layer 2 Data Center Interconnect

Layer 2 Data Center Interconnect - Reference Designs Note: This article was originally published in Dec 2018 based on the feature

Chapter 1. Data Center Layer 2 Interconnect

Data Center Layer 2 Interconnect Many enterprises are making fundamental changes to their business processes by using advanced

DCI Design Models | From Layer 2 to Layer 3 Explained

Understanding Data Center Interconnect (DCI) Data Center Interconnect (DCI) refers to the technologies and protocols

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In a large data center, a single pair of data center core switches typically interconnect multiple aggregation modules

Key Components and Technologies of Data Center Interconnect

Data Center Interconnect (DCI) serves as the backbone of modern digital infrastructure, facilitating seamless

Contact Us

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