CONTRAIL ENTERPRISE MULTICLOUD EVPN BASE SERVICE

Service Overview

The Contrail Enterprise Multicloud EVPN Base service delivers an up-and-running Ethernet VPN/Virtual Extensible LAN (EVPN/VXLAN) environment that combines QFX Series switches deployed in an EVPN fabric configuration with the Contrail Platform to manage and provision the fabric and Contrail Insights advanced telemetry.

Enhancements are also available that build upon the base package. These enable customers to expand and evolve into a full-scale production deployment, including workloads migrating from legacy environments, and integration with other platforms and fabrics like vCenter, OpenShift, and public clouds.

Service Description

Contrail® Enterprise Multicloud is an intent-based networking system that automates the life cycle of the infrastructure and application networking services on multicloud infrastructures composed of private (data centers and virtualized computes) and public clouds.

The Contrail Enterprise Multicloud EVPN Base service delivers an up-and-running EVPN/VXLAN environment that combines Juniper Networks® QFX Series Switches, deployed in an EVPN/VXLAN fabric configuration with Contrail Enterprise Multicloud—Data Center Fabric Management. The base package also includes Contrail Insights (formerly AppFormix) to provide operational telemetry and automation, giving customers a fully functional solution that allows them to organically grow into their production multicloud environment.
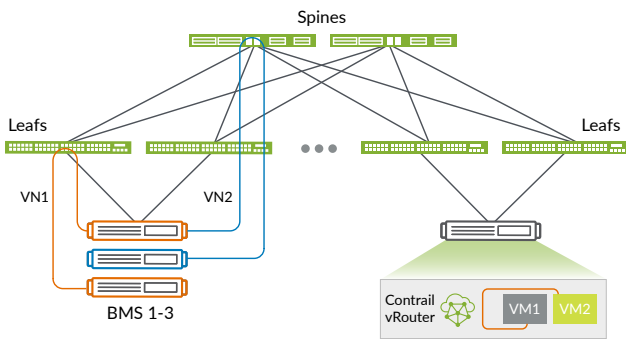
Service Options

The Contrail Enterprise Multicloud EVPN Base package provides customers with a fully functional footprint based on world-class knowledge and best-practice adoption.

The Contrail Enterprise Multicloud Base Package Configurable Add-Ons are a customizable set of services customers may require on Day 1. Currently available configurable add-ons include, but are not limited to:

- Data Center Interconnect (DCI)
- Advanced telemetry and analytics
- Large-scale production deployments
- Connected security
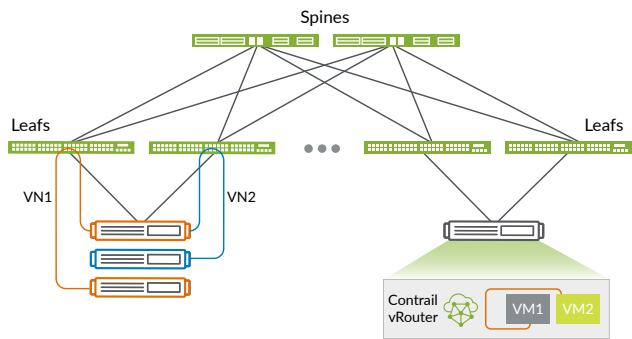- vCenter integration
- Workload migrations

CENTRALLY ROUTED BRIDGING (CRB)	EDGE ROUTED BRIDGING (ERB)
*Inter VLAN L3 Routing in Spine, L2 Bridging in Leaf	* Inter VLAN L3 Routing and L2 Bridging in Leaf

MOTIVATIONS
- Most of the traffic is north-south
- Small scale central tenant IP/VRF management or no controller

MOTIVATIONS
- Most of the traffic is east-west and segmented
- High scale must reduce convergence time on failures
- Complex configurations can be abstracted by the Contrail Networking Controller

Figure 1: Centrally routed bridging and edge routed bridging data center topologies

All services include the complete life cycle, from plan to build to knowledge transfer and post-build support. The base package provides a complete Juniper Networks Professional Services managed project, from initial equipment setup and software build to a fully tested Contrail Enterprise Multicloud EVPN solution that is turned over to the customer. Customer hand-off serves as the base of ongoing expansion, facilitating all aspects required of a complete enterprise multicloud solution.

The Contrail Enterprise Multicloud EVPN Base package builds the full Contrail Enterprise Multicloud EVPN/VXLAN solution, including the Contrail Platform (Contrail Command and Contrail Insights), Contrail Fabric Manager, and a configured EVPN fabric with up to two Juniper Networks QFX10000 line of Switches acting as spines, up to ten QFX51XX leafs, and up to three bare-metal servers. The topologies below represent centrally routed bridging (CRB) and edge routed bridging (ERB). The CRB or ERB architecture is selected by the customer during the design phase of the Contrail Enterprise Multicloud EVPN Base package service.

For a complete Contrail Enterprise Multicloud EVPN/VXLAN fabric architecture perspective, including current releases and a technical description of all elements, please refer to Juniper's TechLibrary **Contrail Enterprise Multicloud Architecture** guide.

Service Components

Components	Description	Features and Benefits
Solution Design	This phase includes a design and prerequisite review, customer data intake questionnaire, planning for the solution build, and preparation of design documents.	• Align on design details, project scope, and expectations • Adapt best-practice design to customer environment
Solution Build	This phase includes the following steps: • Contrail Platform and Contrail Insights build • Zero-touch provisioning (ZTP) bring-up of the QFX Series Switches • Onboarding of QFX Series Switches in Contrail Platform and Contrail Insights for management EVPN/VXLAN overall provisioning • Operational automation	• Use process-driven approach to ensure efficiency and accuracy • Ensure platform is correctly installed and functioning properly
Knowledge Transfer Workshop	In this phase, Juniper Networks Professional Service consultants will walk through the solution and highlight key configuration and operational aspects to enable the customer to operate the solution.	• Gain knowledge and insights for moving the new network from field trial to production readiness
Support	This phase provides post-build support for a week following the solution build phase.	• Quickly resolve any follow-up questions or issues while moving toward operational readiness

Exclusions

This service is remotely delivered and limited to the internal configurations of the **Contrail Enterprise Multicloud Architecture Guide**. It does not include any preparation of the required compute resources, physical rack and cabling of hardware, or migration of live traffic on the new network. The design is a standard best practice based on the Contrail Enterprise Multicloud reference architecture, and this service does not include design customizations or validation. This service is intended primarily for testing, evaluation, and light production of the Contrail Enterprise Multicloud solution.

Additional Juniper Services

Additional services that are available in conjunction with the Contrail Enterprise Multicloud EVPN Base include:

- Advisory Services that help customers strategize their adoption of Contrail Enterprise Multicloud EVPN/VXLAN and understand the potential business outcomes in quantitative terms.

Ordering Information

For more information or to customize and order Contrail Enterprise Multicloud Services, please contact your Juniper Account Manager.

About Juniper Networks

Juniper Networks brings simplicity to networking with products, solutions and services that connect the world. Through engineering innovation, we remove the constraints and complexities of networking in the cloud era to solve the toughest challenges our customers and partners face daily. At Juniper Networks, we believe that the network is a resource for sharing knowledge and human advancement that changes the world. We are committed to imagining groundbreaking ways to deliver automated, scalable and secure networks to move at the speed of business.

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