

Cumulus® Linux®

The First, True Linux OS for Data Center Networking

Cumulus Networks™ is transforming networking with the industry's first, full-featured Linux operating system for networking hardware.

As application requirements continue to grow, businesses are looking for ways to scale data centers and provide more efficient automation of agile, resilient and fast networks in a cost-efficient manner.

Our Solution: Cumulus Linux

Cumulus Linux is a software distribution that runs on top of industry-standard networking hardware. It enables the latest Linux applications and automation tools on networking gear while delivering new levels of innovation and flexibility to the data center.

The new network paradigm is an open ecosystem where businesses can choose between various industry-standard networking gear, network operating systems and network applications to meet their business needs.

Open Network Operating System

Cumulus Linux is THE Linux network operating system. It is not just based on Linux, it IS Linux and offers the entirety of the Linux experience on networking hardware. Existing open source and commercial Linux applications run natively on industry-standard switches. Rich data center networking solutions are augmented to support large scale Clos fabrics and next generation architectures. New applications are developed and integrated rapidly, enabling time to market and further innovation.

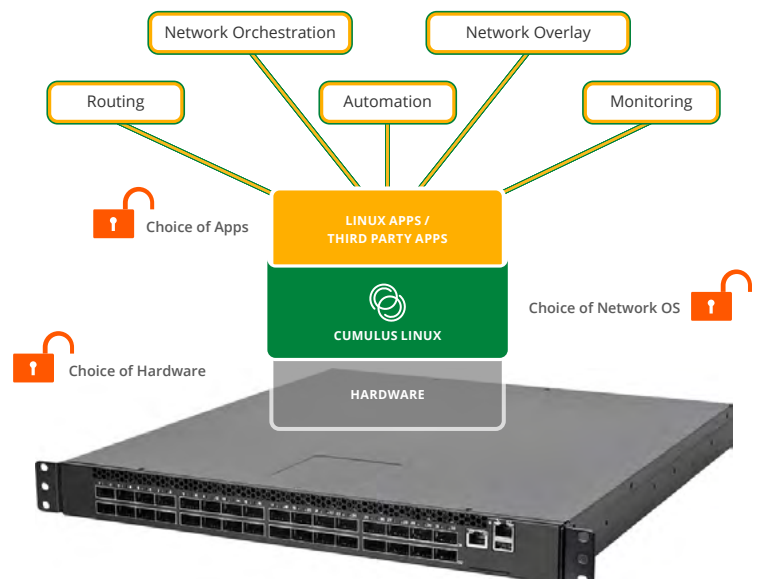
Open Networking Gear Ecosystem

Cumulus Linux supports a broad range of switches from different vendors. Customers can choose from a wide range of platforms with various port densities ranging from 48x1G ports to wire-rate 32x40G ports with the latest industry leading switching silicon, various form factors and various capabilities (see the hardware compatibility list: cumulusnetworks.com/support/hcl/). The industry-standard hardware comes with the Open Network Install Environment (ONIE) for zero touch installation of the network operating system of choice.

This open approach enables choice with the best hardware, software, applications, network architectures and no vendor lock-in.

The Missing Piece

Cumulus Linux is THE missing piece needed to build a modern, scalable data center, bringing the same paradigms of manageability, clustering, monitoring and orchestration that are applied at the server and virtual machine layer today to the network, and realizing the full promise of the software-defined data center.



With Cumulus Linux Your Network Is:



Faster

High capacity fabrics, unprecedented price performance, rapid innovation



Easier

Simplified network automation, consistent tools for network and compute, flexible solutions



Affordable

Lower OPEX/CAPEX, break free from vendor lock-in, large ecosystem of Linux apps

Cumulus Linux Functionality

250+ Packages with Cumulus Linux

The Cumulus Linux distribution is based on Debian. It enables similar functionality such as large scale automation, orchestration and monitoring with the addition of rich networking packages.

Broad Hardware Ecosystem

The Cumulus Linux software distribution runs on a wide range of bare metal switches from the hardware compatibility list.

Modern Data Center Networking Solutions

Enhanced open networking solutions, including support for IPv4/v6 routing suite, Layer 2 suite, security ACLs, QoS, and VXLAN. These features are at the foundation of traditional and modern data center architectures such as large-scale leaf/spine fabrics, and network virtualization.

Open Source / Commercial Applications Ecosystem

Leverages the Linux kernel data structures to allow seamless integration with existing Linux applications, both open source and commercial versions, and enable rapid innovation.

Large Scale Orchestration, Automation

Leverages Linux's extensibility to support any scripting language, enables automation with zero-touch install and provisioning, and integrates seamlessly with orchestration tools such as Chef, Puppet, CFEngine.

Efficient Troubleshooting and Monitoring

Leverages traditional Linux and networking tools such as SNMPv2/v3, SPAN/ERSPAN, integrates with advanced monitoring tools such as Collectd, Ganglia, Nagios, and provides advanced troubleshooting with tools such as Cumulus Linux's Prescriptive Topology Module for topology consistency against a topology graph.



Technical Support

Cumulus Networks provides end-to-end world-class support and services to help our customers and partners fully leverage the power of Cumulus Linux.

About Cumulus Networks

Cumulus Networks is bringing the Linux revolution to networking. Founded by veteran networking engineers from Cisco and VMware, Cumulus Networks makes the first Linux operating system for networking hardware and fills a critical gap in realizing the true promise of a software-defined data center. For more information visit: cumulusnetworks.com or follow us on Twitter @cumulusnetworks.