

Cumulus Linux Overview

Open networking software for the modern data center



Cumulus Networks is building the modern data center network for applications of the future. We provide networking software to design, run and operate modern data centers that are simple, open, resilient, agile, scalable and operationally efficient.

Build a better network with Cumulus Linux

Cumulus Linux is a powerful open network operating system that allows you to automate, customize and scale using web-scale principles like the world's largest data centers. It accelerates networking functions and provides choice from an extensive list of over 100 qualified and supported switch models based on the latest innovations in merchant silicon. Cumulus Linux was built for automation, scalability and flexibility, allowing you to build data center and campus networks that ideally suits your business needs. Cumulus Linux is the only open network OS that allows you to affordably build and efficiently operate your network like the world's largest data center operators, unlocking web-scale networking for businesses of all sizes.

CUMULUS LINUX PROVIDES



ECONOMICAL SCALABILITY

With commodity hardware and a standardized Linux stack. Our customers have increased operational efficiency by reducing time-to-production by up to 95%, reduced CapEx by up to one third and reduced OpEx by up to 74%.



BUILT FOR THE AUTOMATION AGE

Cumulus Linux is a powerful, networking-focused, Linux distribution based on Debian that offers a completely open architecture and is designed for easy automation.



STANDARDIZED TOOLSETS

Existing open source and commercial Linux applications run natively. That means you can use your existing tools, like for automation and others, to improve efficiency and multiply the number of switches per operator.



CHOICE AND FLEXIBILITY

Choose from 50+ hardware platforms, from 9 vendors, and two different types of silicon. Build your network based on your needs and your budget, and pivot easily as the industry changes.



UNPRECEDENTED NETWORK VISIBILITY WITH CUMULUS NETQ AND NETQ CLOUD

Cumulus NetQ is a modern network operations tool set that provides in-depth, unprecedented network visibility of your entire fabric in real-time, delivering actionable insights and operational intelligence into the health of your Linux-based data center — from the container, virtual machine, or host, all the way to the switch and port.

Cumulus Linux is the ultimate choice when it comes to flexibility and innovation, enabling the best of breed hardware and technology ecosystem.

CUMULUS LINUX KEY FEATURES:

ETHERNET VIRTUAL PRIVATE NETWORKS (EVPN)

Get freedom from layer 2 complexities with this modern, standards-based, interoperable technology that allows legacy layer 2 applications to operate over next-generation layer 3 networks.

NETWORK COMMAND LINE UTILITY (NCLU)

Use our rich and simple command line for easy network configuration and operation.

OSPF UNNUMBERED

Create configs faster and simplify automation by no longer depending on unique IP addresses.

BGP UNNUMBERED

Automation gets even easier with this simplified IP approach. All you need is one IP template for leaf nodes and one for the spine nodes. Easy, right?

REDISTRIBUTE NEIGHBOR

Get VM and host mobility by plugging your server into any redistribute neighbor-enabled switch, making it layer 3 discoverable on the fabric. If you have to move the server, there's no need to reconfigure.

PRESCRIPTIVE TOPOLOGY MANAGER (PTM)

Efficiently go from whiteboard to physical cable. With PTM, you can program your data center to verify connections and resolve issues faster.

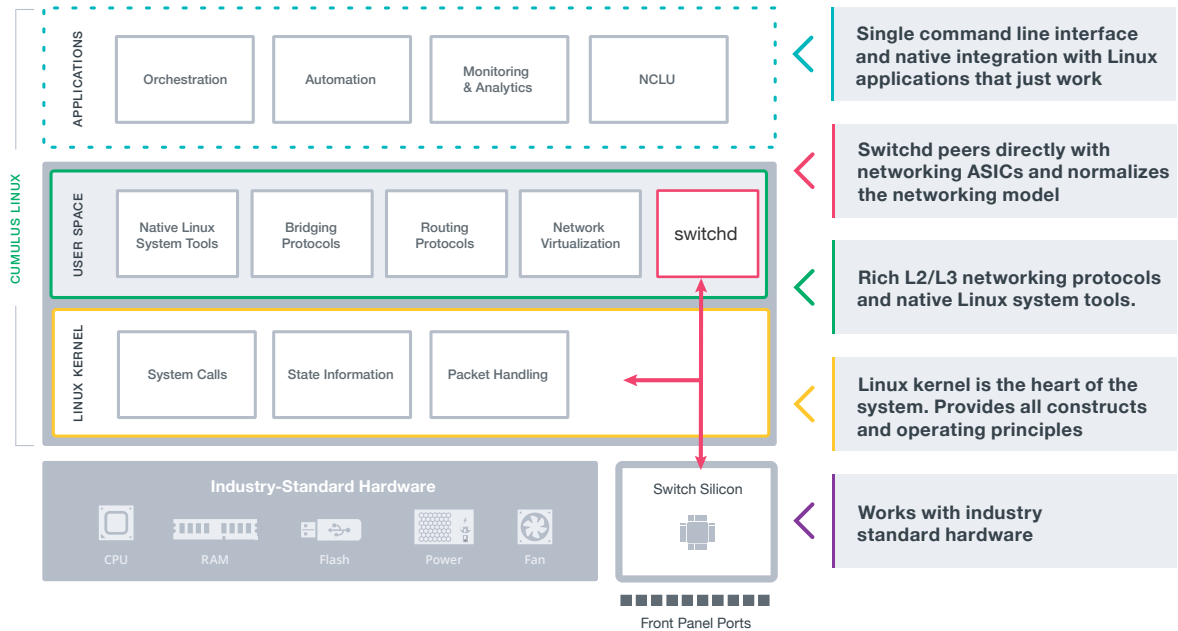
VIRTUAL ROUTING AND FORWARDING

Run multiple network paths without the need for multiple switches, giving you traffic isolation and network segmentation for multiple devices.

LIGHTWEIGHT NETWORK VIRTUALIZATION (LNV)

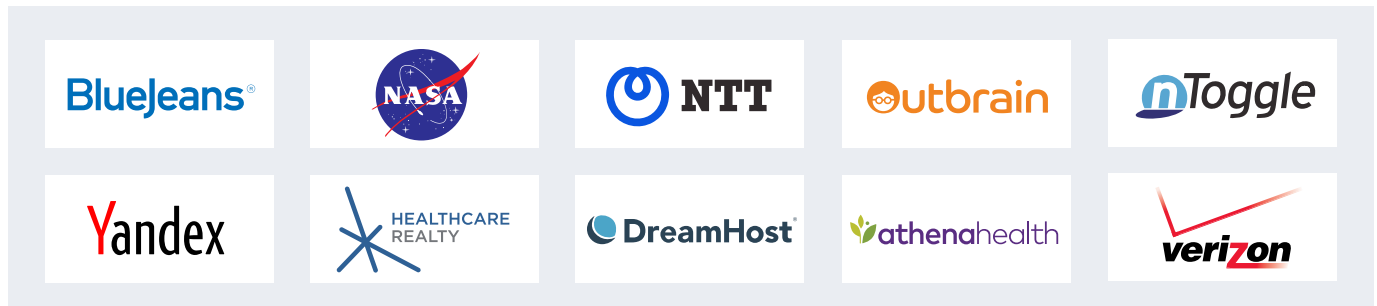
Accelerate VXLAN deployments with a controllerless solution.

CUMULUS LINUX ARCHITECTURE



1800+ CUSTOMERS AND COUNTING

34% of the Fortune 50 have already adopted Cumulus Linux



Try Cumulus Linux

CUMULUS VX

Cumulus VX is a community-supported virtual appliance that enables cloud admins and network engineers to preview and test Cumulus Networks technology at zero cost. You can build sandbox environments to learn open networking concepts, prototype network operations, and script and develop applications risk free. With Cumulus VX, you can get started at your pace, on your time and in your environment. Visit cumulusnetworks.com/vx.

CONTACT YOUR CUMULUS NETWORKS SALES TEAM

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