

OpenSwitch (OPX) Network Operating System

Your Way To Build Composable Networks...

What is OpenSwitch

- Linux Foundation Open Source Project
- Diverse Growing Community Led by Dell EMC
- Open Source NOS for Hardware Switches
- Commercial-Grade Turnkey Solution
- Open and Premium Application Ecosystem
- Enables Rapid On-Boarding of New Platforms, Protocols and Applications

Why OpenSwitch

Operational Efficiency Benefits

- Software & Hardware Disaggregation
- Free NOS Base brings CapEx Savings
- Open/Premium Applications Save OpEx

Network Agility & Features Velocity

- Custom Modifiable Open Source Code
- Extensible to Support New Platforms
- Provide Framework to Integrate New Applications

Use OPX NOS with Confidence

- Commercially Deployed Today
- Leading Open-Networking Hardware
- Field-Proven Control Protocol

Key Features of OPX

System

- Linux Debian Jessie
- Linux Stack Integration
- 1/10/25/40/100G Platforms

L2 Features

- LAGs, LLDP
- STP, PVST, VLANs, CoS

L3 Features

- IPv4 & IPv6 Support
- ECMP, Management VRF
- ICMP, ARP, DNS, NTPv4, DHCP, IGMPv2

Security & Instrumentation

- ACL: 5-tuples, L2/L3, UDF
- Monitor: (R)SPAN, sFlow

QoS

- DiffServ, PFC, COPP
- Policers, Shapers, Scheduling

Network Management

- RADIUS, TACACS+
- SSHv2, SCP, SNMP, PySNMP

Automation / Other

- Control Plane Services APIs
- Linux Utilities and Tools
- Ansible, Chef, Puppet, Salt
- Python, C/C++, YANG
- Persistent configuration, software upgradability

Members

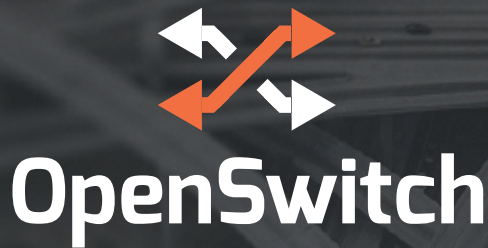


Website: www.openswitch.net **Contribute:** github.com/open-switch

Mailing List: ops-dev@lists.openswitch.net **Follow Us:** @openswitchOPX

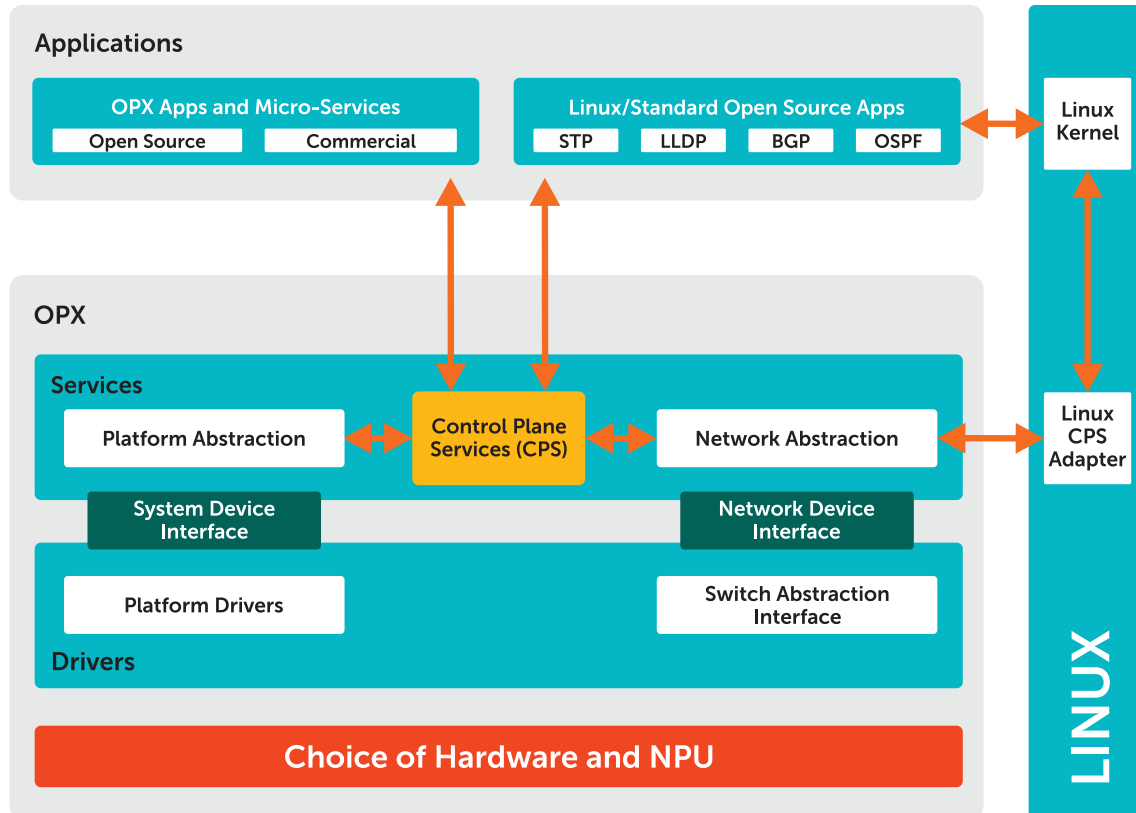
Chat: chat.openswitch.net





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Open Source Disaggregated Network OS

Your Way to Build Composable Networks

- Support for 1/10/25/40/100G Hardware Platforms
- Rich open source & premium network applications
- Modular, scalable, extensible, performance-optimized architecture
- New Applications are easily ported, using Control Plane Services abstraction
- ASIC/NPU extensions are easily integrable, using Switch Abstraction Interface (SAI)
- Deploy native Linux applications, supplemented by OPX networking stack
- Linux Foundation Neutrality – Growing and Vivid Community