SR Linux

SR Linux Network Operating System

Future proof your data center network with an open, extensible and resilient NOS

Operational challenge: Designed to be deployed and customized in any environment with industry-leading scale and performance.

Solution

Standard Linux kernel

Ground-up model-driven foundation

Resilient field-proven protocol stacks SR OS

- Uses an unmodified Linux-based kernel as the foundation.
- Modular, model driven architecture providing scalability, visibility and ease of operations.
- Inherits from SR OS proven resiliency, stability, scalability of major routing protocols such as BGP, EVPN, VXLAN.

Open scalable telemetry framework

Open source CLI plugins (Python)

NetOps Development Kit (NDK)

- Streaming on-change telemetry using gNMI to delivers ultra fine grain network configuration and state across all NOS services.
- Customizable Python-based CLI framework that accesses the system's underlying data models.
- Design custom third-party applications for network operations, that are managed like native services.

Differentiation

- **Model-driven**
  True modular model-driven architecture across all services.
- **On-change telemetry**
  Telemetry framework ensures deep visibility into the system.
- **Modern interfaces**
  Built system wide with modern interfaces and protocols like gRPC and protocol buffers making it an incredibly efficient NOS.
- **Proven routing protocols**
  Benefits from the performance, scale, and resilience from the worlds most proven and robust NOS, SR OS.

Learn more