SONIC partners



Application, management, tools

Monitoring, Management, Deployment Tools, Cutting Edge SDN

ARISTA





metaswitch



CANONICAL.

SONIC

Switch Platform













Switch Abstraction Interface (SAI)

Merchant Silicon











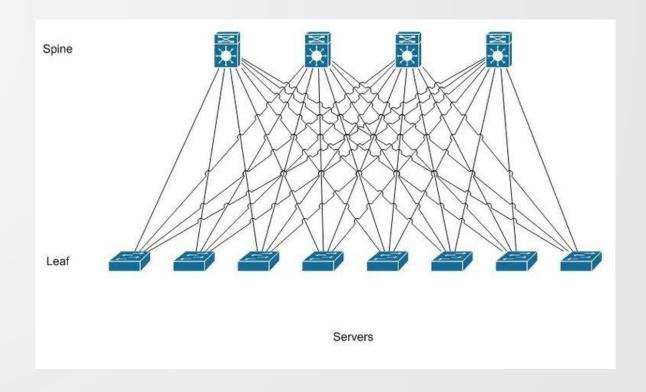




Motivation for SONIC SoftSwitch



- HW agnostic
 - When introducing a new feature how we make sure that it is HW agnostic
- Debugability
 - Using Logs
 - Packet Trace
- Reduce R&D cost
 - build complex topology's
 - No need HW platform
- Testability
 - Provide automated conformance test

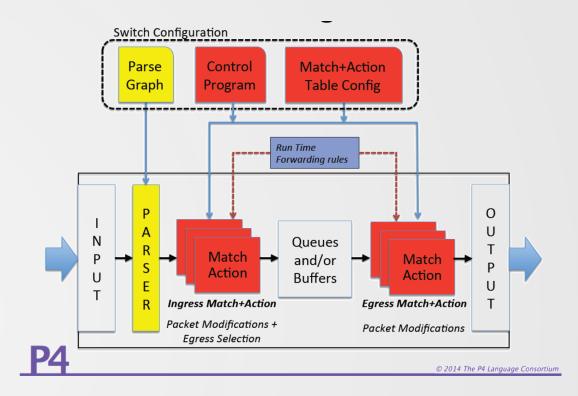




https://github.com/Mellanox/SAI-P4-BM

- Functional Soft Switch with SAI interface.
- Tables, Action, control flows are aligned to SAI viso docs. https://github.com/opencomputeproject /SAI/tree/master/doc/behavioral%20mo del
- Based on p4-16







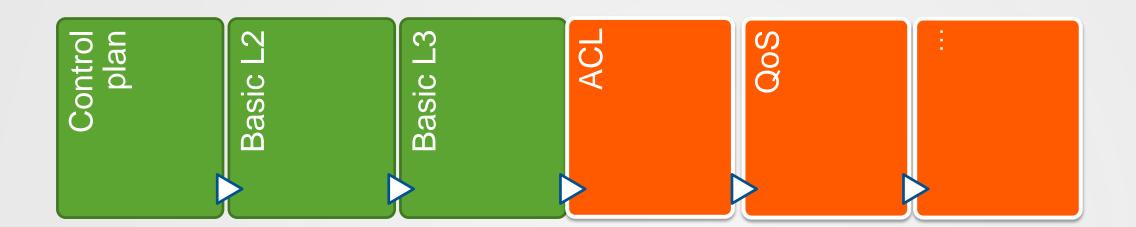
SAI SoftSwitch integration with SONIC

https://github.com/Azure/SONiC/wiki/SONiC-P4-Software-Switch

- SONiC-P4 is a software switch that runs on the P4-emulated SAI behavioral model
- It uses the sai_bm.p4 to program the P4-emulated switch ASIC to emulate the data plane behavior.
- On top of that, it runs the SONiC network stack.
- The current SONiC-P4 is released as a docker image.







Help!We are looking for contributors...

