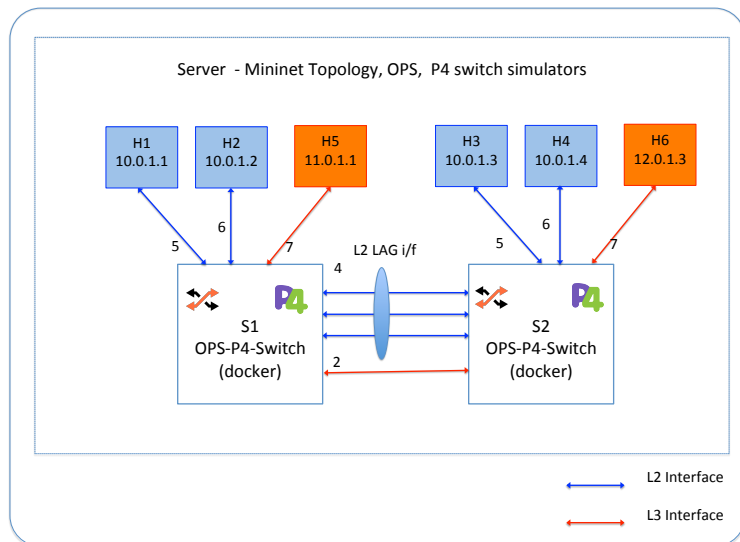


OpenSwitch with P4 Switch

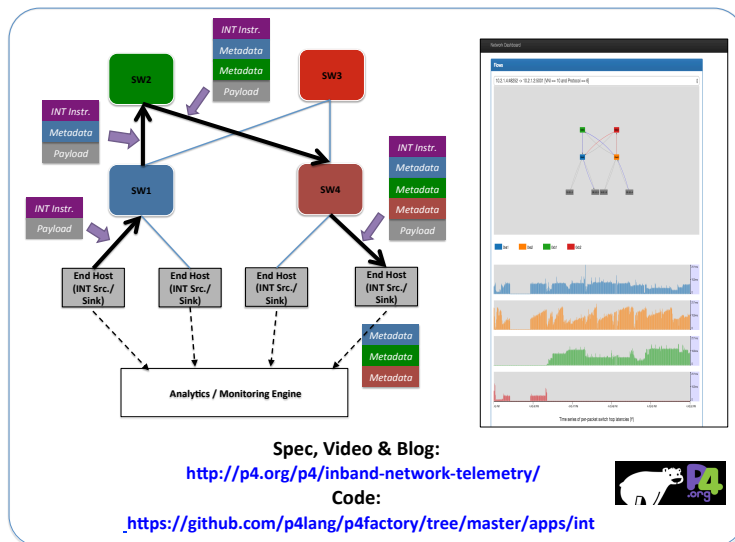
Open Source Data Plane, Control Plane & Telemetry



Demo Setup



In-band Network Telemetry (INT)



Benefits of P4 Switch in OPS

Programmable Pipeline

Add new feature, tweak / improve / fix existing features

Rapid Prototyping and Testing

Pipeline changes can be compiled and tested in just a few hours !!

Feature-rich P4 defined pipeline

switch.p4 provides fully functional advanced L2/L3 switch pipeline

Zero Effort Silicon Migration

The pipeline can run on simulator and P4 devices

Benefits of INT

Complete network visibility

No black boxes, ghost drops and guessing.

Real-time monitoring

No need to depend on polling

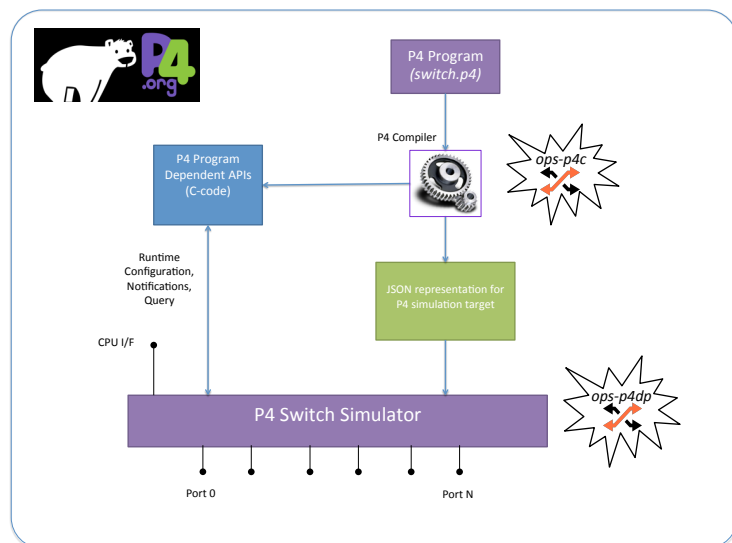
Per-packet metadata

No sifting through aggregated counters and information

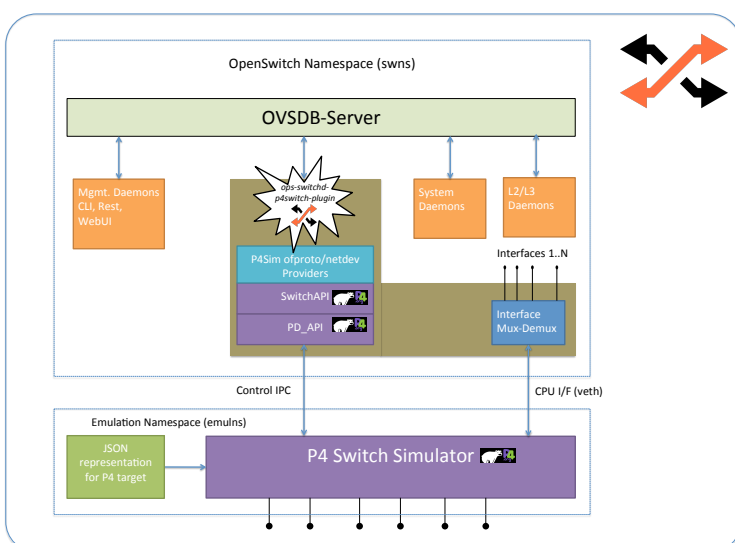
Full line rate, zero switch CPU involvement

Not limited by Control Plane bandwidth

P4 Program Workflow



P4 Switch in OPS



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(Barefoot Networks) (Barefoot Networks) OpenSwitch