## **Piggybacking Network Functions on SDN with P4 support**

- The demo is an augmented implementation of SDN-Defense (SOSR 2017)
- SDN-Defense framework
  - Piggybacks on reactive routing
  - Utilize initial flow packets sent to the controller to perform security checks
    - 90% of malicious flows are detected within the first 4 packets
- Reactive routing is not scalable
- A combination of P4-enabled switches and OpenFlow switches
  - Leverage P4-enabled switches
    - Identify initial flow packets & send a copy of them to the controller
  - Leverage OpenFlow switches for immediate mitigation action

## P4 Worshop 2017