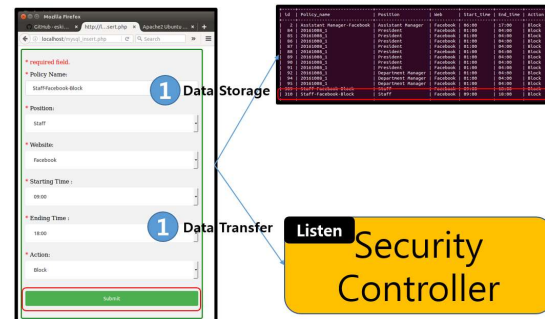


# IETF I2NSF (Interface to Network Security Functions) Working Group: I2NSF Framework Project

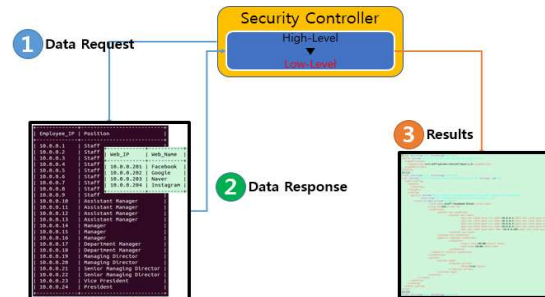
Champions: Jaehoon Paul Jeong and Jinyong Tim Kim (SKKU)



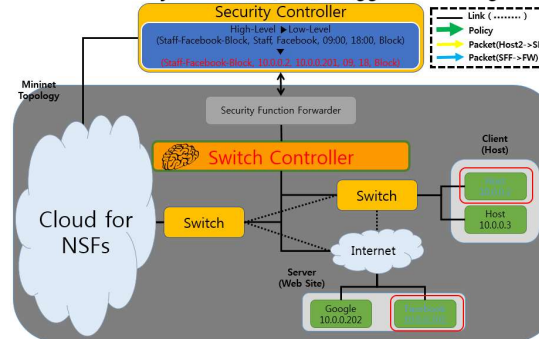
## I2NSF Client (Web)



## Security Controller



## Network Security Functions (NSF) -Triggered Steering



## Where to get code

- Github – Source code
  - ✓ <https://github.com/kimjinyong/i2nsf-framework>

## What to pull down to set-up environment

- OS: Ubuntu 14.04TL
- Confd for NETCONF: 6.2 Version
- Apache2: 2.4.7 Version
- MySQL: 14.14 Version
- PHP: 5.5.9 Version
- Mininet: 2.2.1 Version
- OpenDaylight: Distribution-karaf-0.4.3-Beryllium-SR3
- XSLT (Extensible StyleSheet Languages Transformations)
- Jetconf: Jetconfis a python Open APIfor RESTCONF.

## Manual for Operation Process

- README.txt

## Contents of Implementation

- I2NSF Framework for provisioning Network Security Functions (NSF)
  - ✓ Consumer-Facing Interface via RESTCONF/YANG (new feature)
  - ✓ NSF-Facing Interface via NETCONF/YANG
  - ✓ Registration Interface via NETCONF/YANG
- Network Security Functions
  - ✓ Firewall using SDN and Suricata
  - ✓ Deep Packet Inspection (DPI) using Suricata
- Advanced Functions
  - ✓ Dynamic Policy Configuration (new feature)
  - ✓ NSF-triggered Traffic Steering using SFC (new feature)
  - ✓ YANG Data Modeling for NSF Monitoring

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