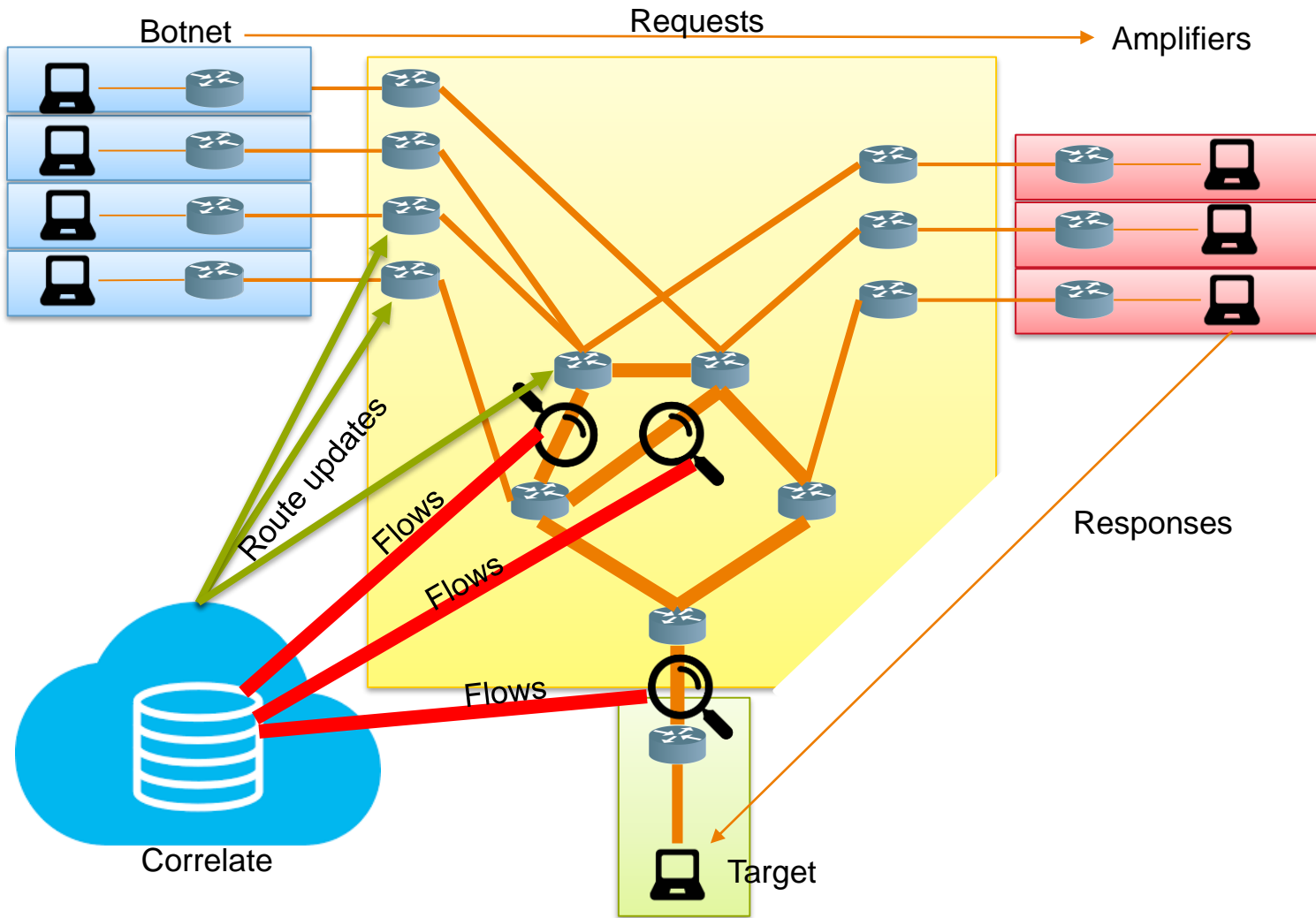


› RON'18 IDEAS



DDOS DETECTION IN THE CORE

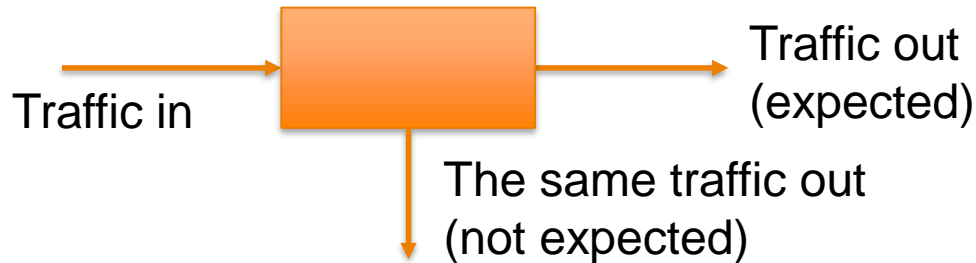
- › DDoS detection in the core is not easy as the volume of the attack does not necessary stand out
 - › ...as it does near the victim
- › Botnet: spoofed srcIP (==target IP), amplifier dstIP
- › Possibly we can correlate flows characteristics from the core and edge close to target
 - › ... or perhaps also close to amplifiers? (Requires SARNET-like information exchange)
- › After detection, (automated) action can take place



- IP + UDP:
- DNS + DNSSEC
 - CHARGEN
 - MEMCACHED
 - NTP
 -
- IP + ICMP

TAPPING/MALICIOUS RELAYS DETECTION

- › Belgacom case: traffic from operator's network was tapped
 - › <https://theintercept.com/2018/02/17/gchq-belgacom-investigation-europe-hack/>
- › Can we detect tapping ?
 - › If so, at what granularity ?
 - › mirror 10G port for months vs. install short-lived flow rule for specific data exfiltration



- › Another but somewhat similar threat: malicious relays (e.g., server acting as a router)