Relying on RARE for DDoS Attack Protection

GN5-1 – Work Package 6/Task 1

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10k feet view of RARE DDOS mitigation infrastructure

Front component:
Traffic effective mitigation

Trigger component:
Unwanted traffic
Detection & identification
DDOS mitigation infrastructure components

**Front component:**
Traffic effective mitigation

**Trigger component:**
- BGP FlowSpec
- Unwanted traffic Detection & identification
- Firewall on Demand
- NEMO
Experience it with container lab!

https://github.com/rare-freertr/freeRtr-containerlab/tree/main/lab/005-rare-hello-fod
GN4-3 WP6-T1 – GÉANT P4 Lab becoming Global P4 Lab

- December 2023 (presented to Supercomputing 2023 conference)

Global P4 Lab (GP4L)

Tofino Core – 28 Sites/Devices:
- Caltech 3x, Pasadena-US
- CERN, Geneva-CH
- FIU, Miami-US
- GEANT 4x, Amsterdam-NL, Budapest-HU, Frankfurt-DE, Poznan-PL
- HEAnet, Dublin-IE
- KDDI [New], Tokyo-JP
- KISTI, Daejeon-KR
- RENATER, Paris-FR
- RNP, Rio de Janeiro-BR
- SC23 [New], Denver-US
- SouthernLight, São Paulo-BR
- StarLight, Chicago-US
- SWITCH 6x [New], Geneva-CH
- Tennessee Tech, Cookeville-US
- UFES, Vitória-BR
- UMd/MAX, College Park-US

BlueField-2/DPDK Islands – 7 Sites/Devices [New]:

x86/DPDK Islands – 4 Sites/Devices:
- FABRIC [New], Miami-US
- 2x GEANT, Paris-FR, Prague-CZ
- KAUST [New], Saudi Arabia-SA
Infoshare: Relying on RARE for DDoS Attack Protection

RARE official documentation: docs.rare.geant.org

Traffic mitigation here: https://docs.rare.geant.org/guides/recipes/flowspec/

Questions
Discussions
Ideas?
Thank You