



Firewall on Demand in Go

Jeroen Wijenbergh (GÉANT)

Securing.tomorrow.together

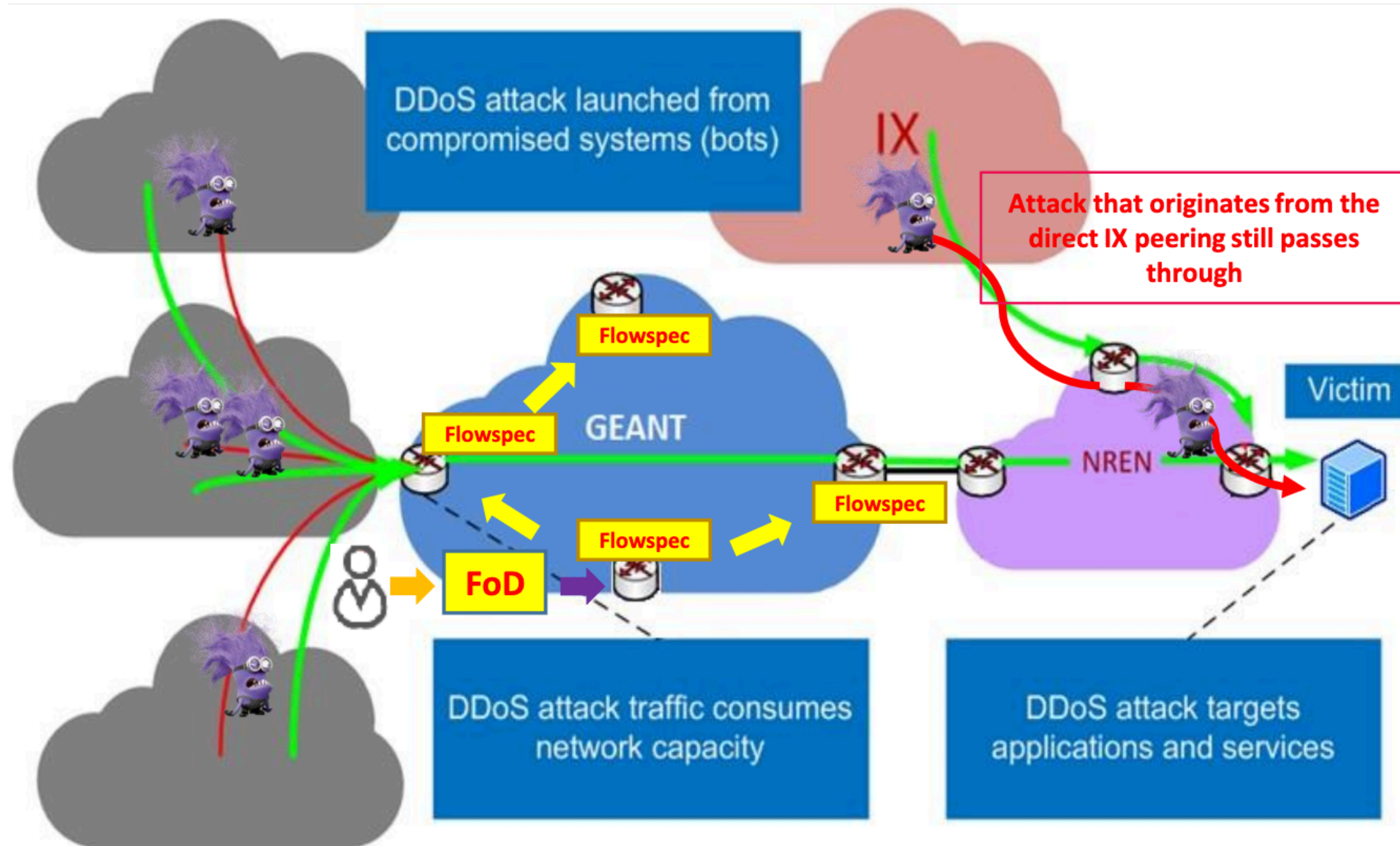
<Utrecht.NL> <7-9 April 2026>

Security
.Days

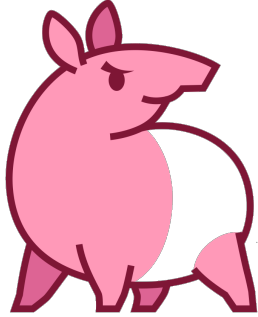
History

- Flowspy by GRNET ~2011
- Firewall on Demand Service: Started around ~2014
- Me: Service Owner since 2024
- Go Project: Started around April 2025

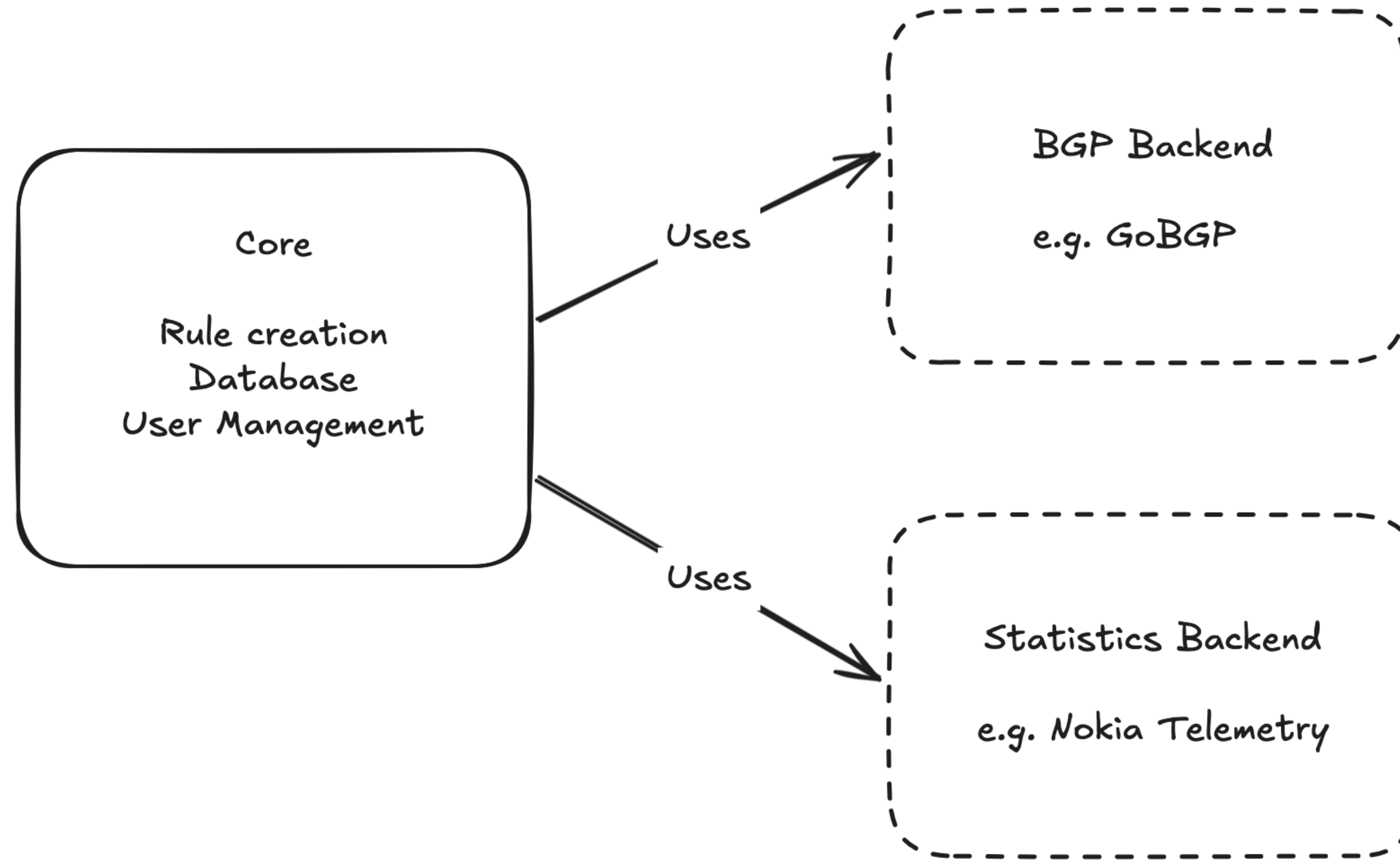
Overview



Why?

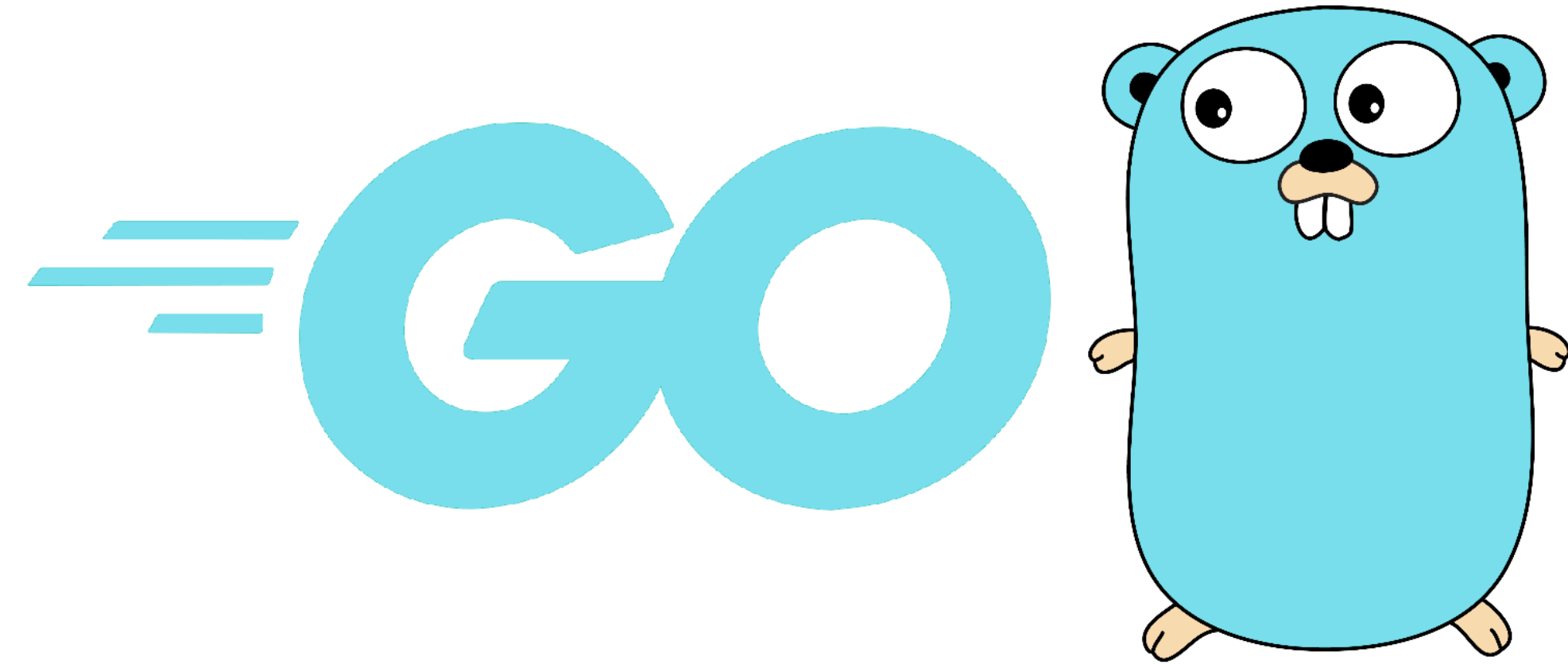
- Migration to Nokia
- No more NETCONF, just BGP FlowSpec
- GoBGP 
- Goal: Simpler, cleaner, more modular codebase

Modular



Now

- One binary
- Both REST API + Browser UI
- Easy to get going
- Debian packages
- In progress deploy script: Postgres, GoBGP, etc



<https://codeberg.org/GEANT/fod-go>

Screenshots

[Create a rule](#)

Name ↓	From ↓	To ↑	Action ↓	Status ↓	Changed ↓	Configure	
hello	1.1.1.1	192.168.50.1	discard	active	Apr 7 2026 13:25 by Jeroen Wijenbergh	View	Edit
security	1.1.1.1	192.168.50.2	discard	active	Apr 7 2026 13:26 by Jeroen Wijenbergh	View	Edit
days	1.1.1.1:20	192.168.50.3:40	discard	active	Apr 7 2026 13:26 by Jeroen Wijenbergh	View	Edit

Screenshots

Edit Firewall rule: hello

Deactivate Rule

Name

hello

Description

optional text to give more details

Source CIDR

1.1.1/32

Destination CIDR

192.168.50.1/32

Source Port(s)

e.g. 22,50-60 (inclusive range)

Destination Port(s)

e.g. 22,50-60 (inclusive range)

Common Port(s)

matches source/dest

Screenshots

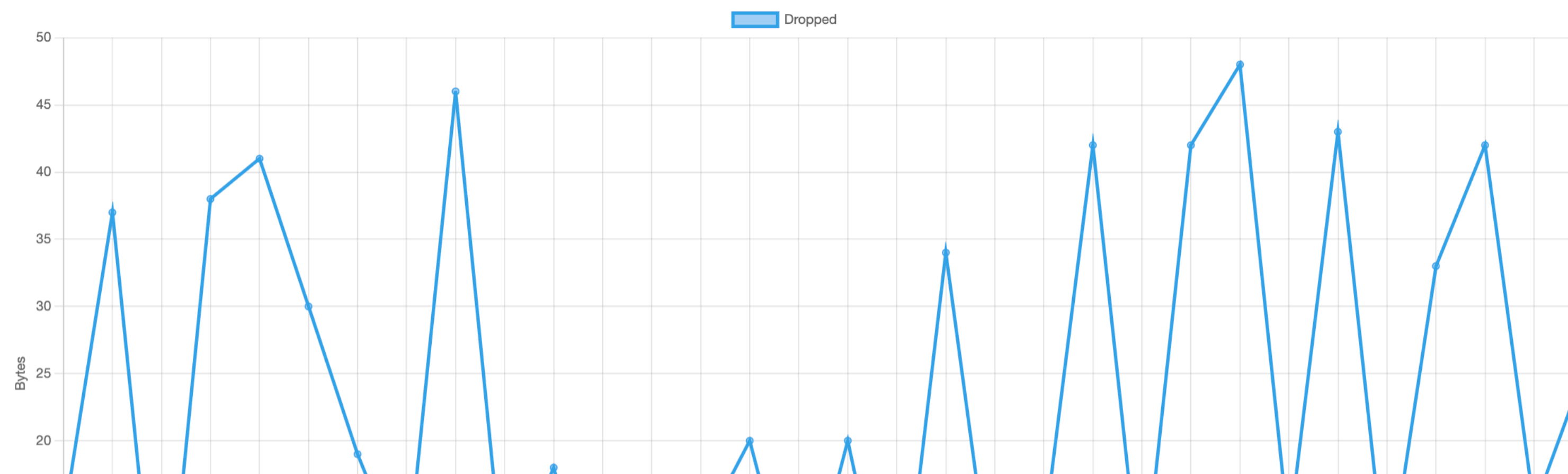
Firewall rule: hello

Status	active
Source	1.1.1.1/32
Destination	192.168.50.1/32
Protocols	UDP
Fragments	is-fragment
Action	discard

Edit Rule

Statistics

Note: These statistics are for development only and are not real



Community

- David Schmitz: Pickup open issues
- Anna Wilson: Containerization
- You?



Roadmap

- Feedback from users: Upcoming weeks
- Deploy in production @ GÉANT: Upcoming months
- Support deployments for NRENs