UKNOF37 Manchester

Diego Luis Neto SW developer @ NL-ix



BIRD route-server configuration? Click, DONE!



Route-server limitations

No peers selection possibility Not transparent Manual and time consuming No Latency control

Challenges

Maximum flexibility for peers selection Automated

Easy setup and usage for peers

Secure

Fault tolerant and feedback rich

Easy to integrate

NL-ix route-server configurator

Full fine-grained control (IP, location, latency)

Support for filtering and prepending

Completely automated

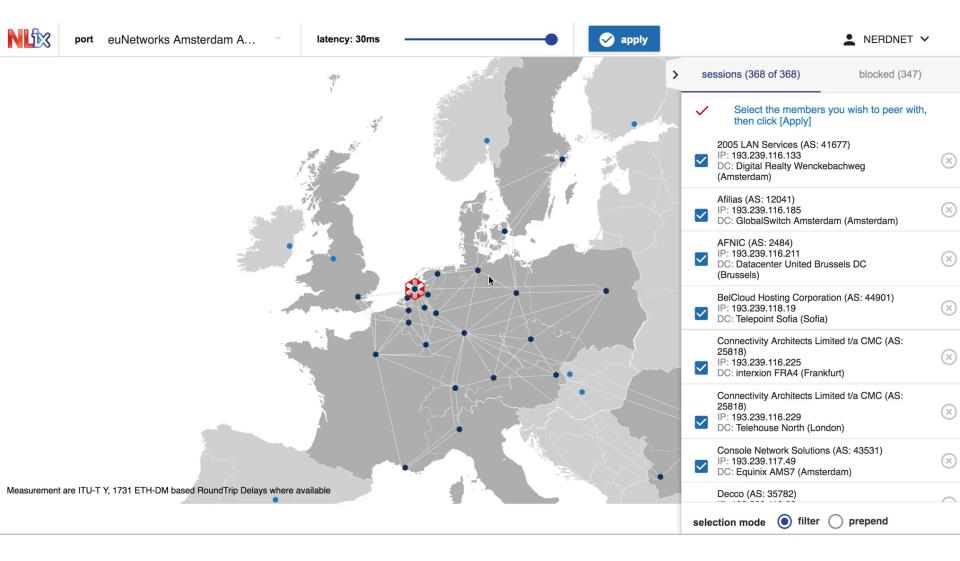
Sexy web interface

Modular design + API/WebHooks

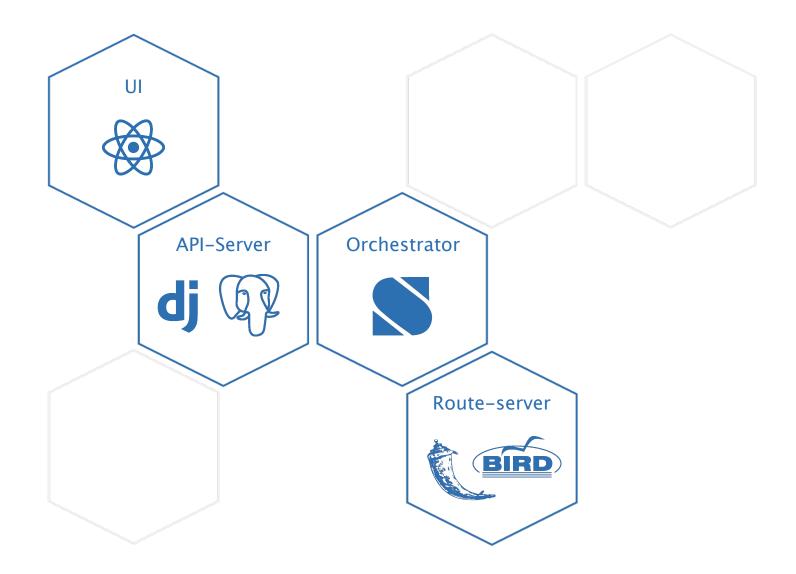
100% **Open-Source**



NL-ix route-server configurator



Architecture



Stackstorm?

Brocade product

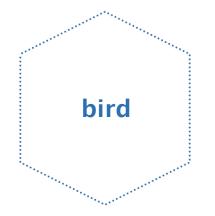
Runs on Linux, made with/for Python coherent with NL-ix tech stack

Actions, rules, workflows, audit

Plugin structure

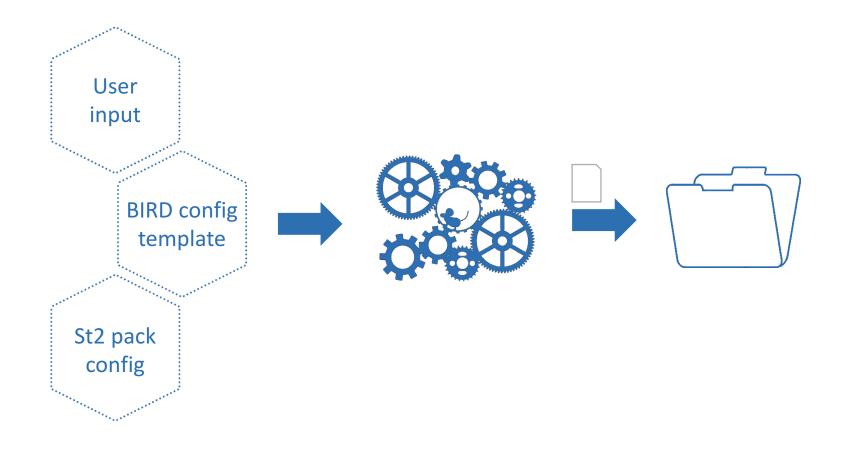
Wide selection of available packs (https://exchange.stackstorm.org/)

BIRD St2 pack

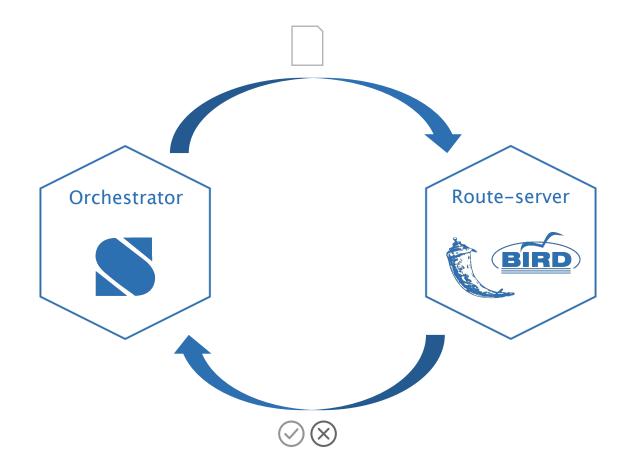


Generic St2 pack for **BIRD** configuration BIRD config file **generation** and **deployment**

Generate config



Deploy config



bird-proxy ?



Flask (Python) application BIRD control via HTTP(S) Endpoint for BIRD config file deployment (open for expansions)

NL-ix route configurator



Available for all NL-ix peering members



Info

- dlneto@nl-ix.net (tech)
- nlix@nl-ix.net (general info)

