LnetD network modelling

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About me/project

Network engineer focused on SP networks

- ☐ Worked with all 3 big modelling tools (Car..., Wan..., Pa...)
- □ LnetD for Network Discovery (see https://netldn.files.wordpress.com/2019/05/Inetd-netldn.pdf)

LnetD-Qt as an open source alternative, no feature parity (and not planned; 80% most of use cases covered)

Current features:

- Import LnetD-Web Topology
- Create new topology
- ☐ Fail Link/Nodes
- L1 Topology
- ☐ Fake eBGP failure simulation

Planned features:

- IGP shortcuts support
- Proper BGP support
- Feature request ?! anyone

Projects

- LnetD: html/js with python
- LnetD_QT : python only :)

cpmarvin / Inetd

dynamic network topology from IGP information

● HTML ★ 53 🖇 6 Updated on 25 Nov 2019

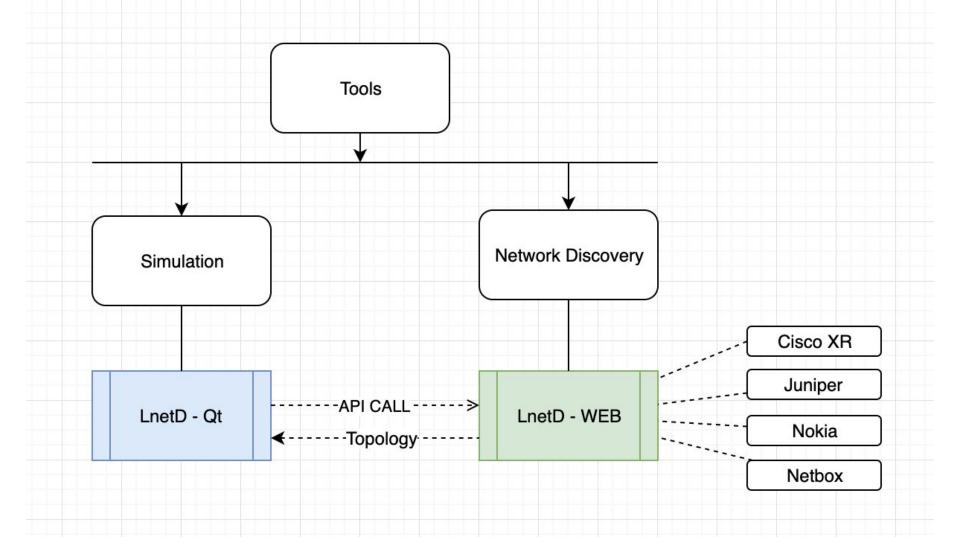
cpmarvin / Inetd_qt

PyQT implementation for LnetD with focus on network modelling and simulation

Python 🖈 2 Updated 3 hours ago

★ Star

* Star



V0.1.3

Binary for:

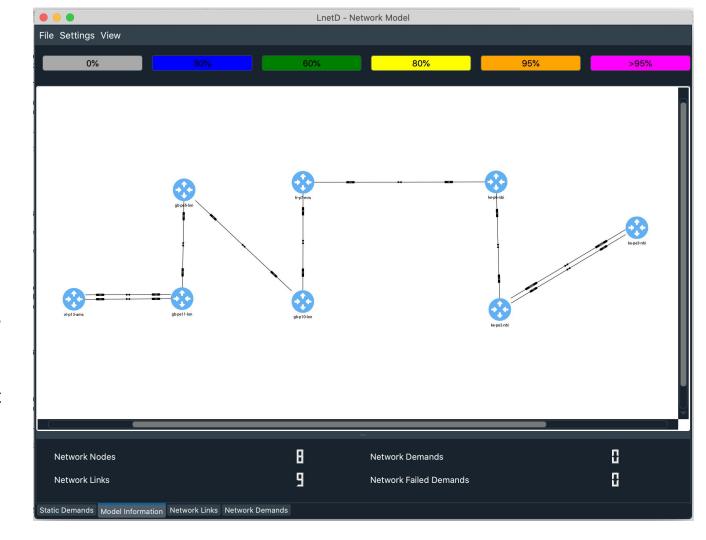
- Win10
- MAC

Source code:

git clone -b develop https://github.com/cpmarvin/ lnetd_qt

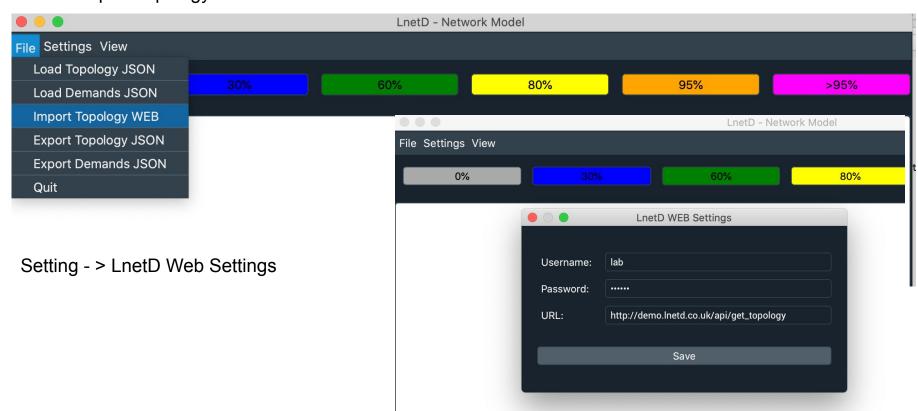
pip3 install -r requirments.txt

python3 Inetd_qt.py



Import LnetD Topology

File -> Import Topology



Create topology

Right click -> Add Node



Select First Node
Cmd click second node
-> Add link

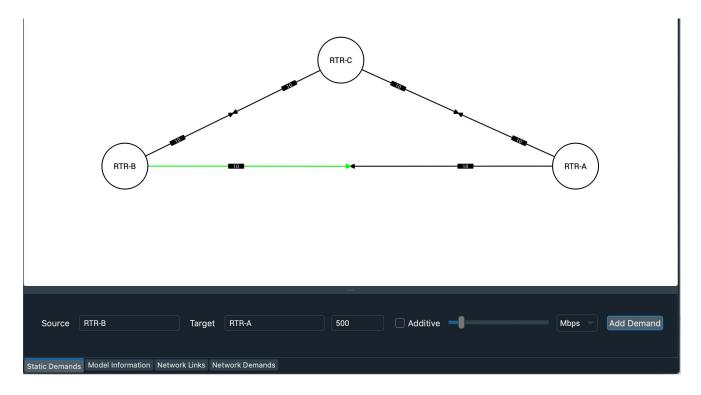




Create topology

Select Static Demands

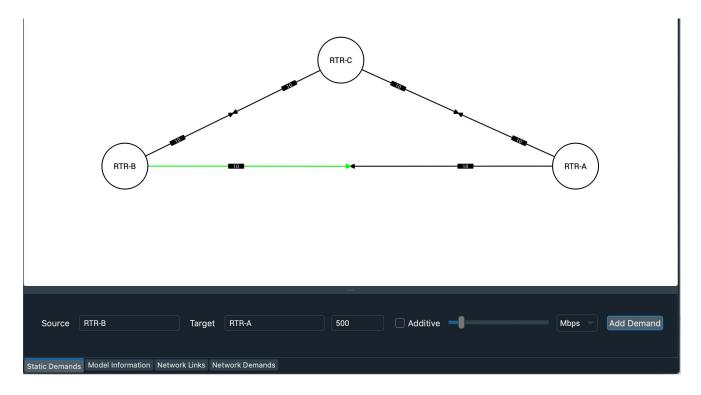
- -> Source
- -> Target
- -> Demand value
- -->Add Demands



Create topology

Select Static Demands

- -> Source
- -> Target
- -> Demand value
- -->Add Demands



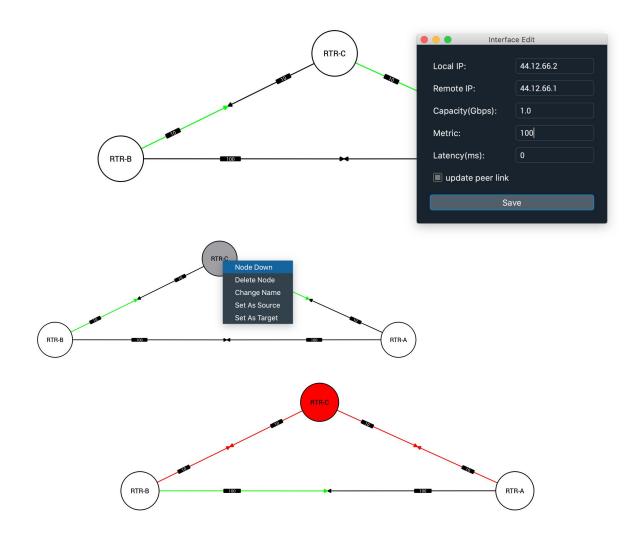
Changes

Right click on link

- -->Edit
- -->change metric/latency/bw
- --->Apply

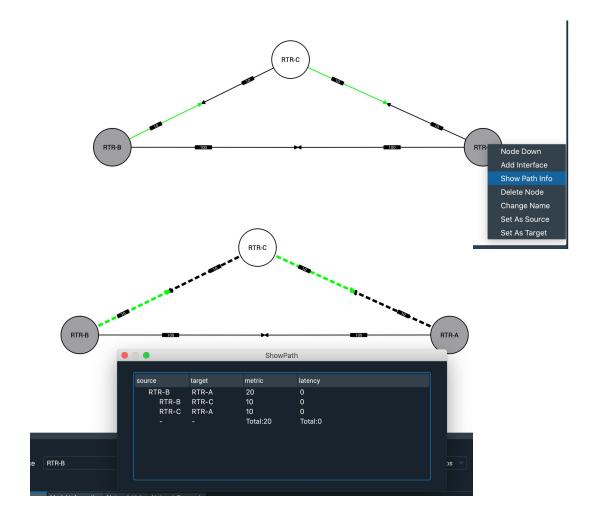
Right click on node

- -->Node Down
- → Demands will auto re-deploy



Path Info

- -->Select one Node
- -->Cmd click on the other node
- -->Show Path Info



Demo time

