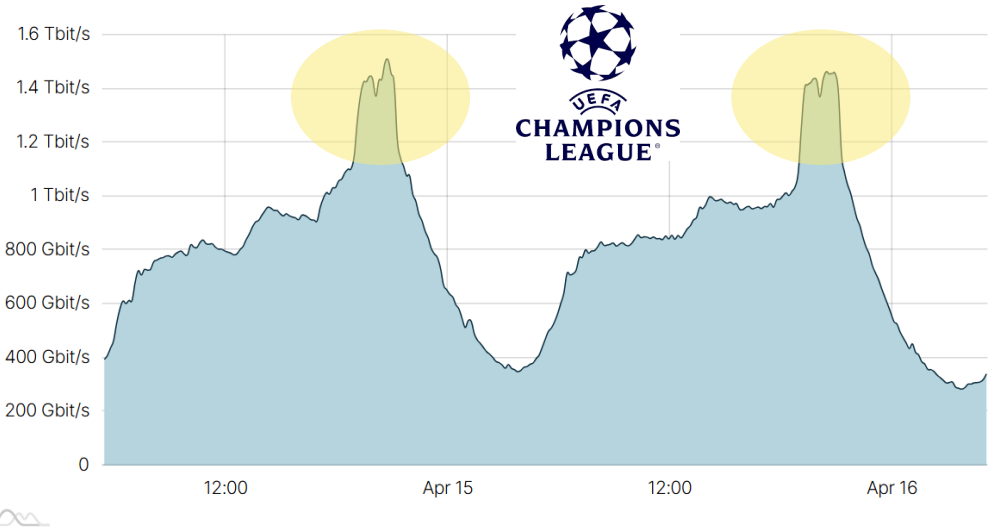
Novedades del DE-CIX

ESNOG 35, Madrid, 16-17 Abril 2026

Marcos Sanz – VP of Product Technology

Traffic Madrid – 2 days



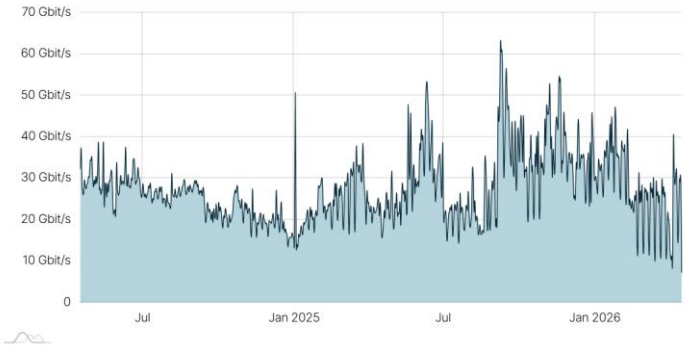
ALL-TIME PEAK
1.56 Tbit/s

GRAPH PEAK
1.51 Tbit/s

GRAPH AVERAGE
800.84 Gbit/s

CURRENT
340.75 Gbit/s

Traffic Barcelona – 2 years



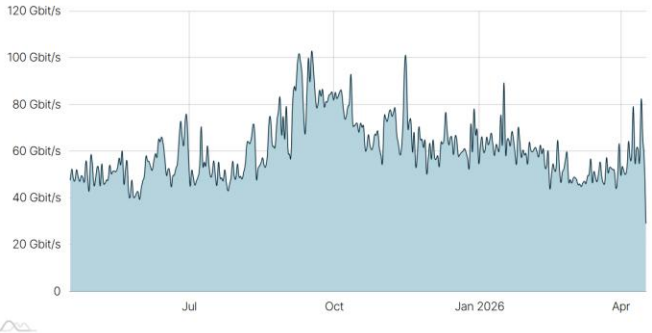
ALL-TIME PEAK
62.41 Gbit/s

GRAPH PEAK
62.41 Gbit/s

GRAPH AVERAGE
20.25 Gbit/s

CURRENT
5.94 Gbit/s

Traffic Lisbon – 1 year



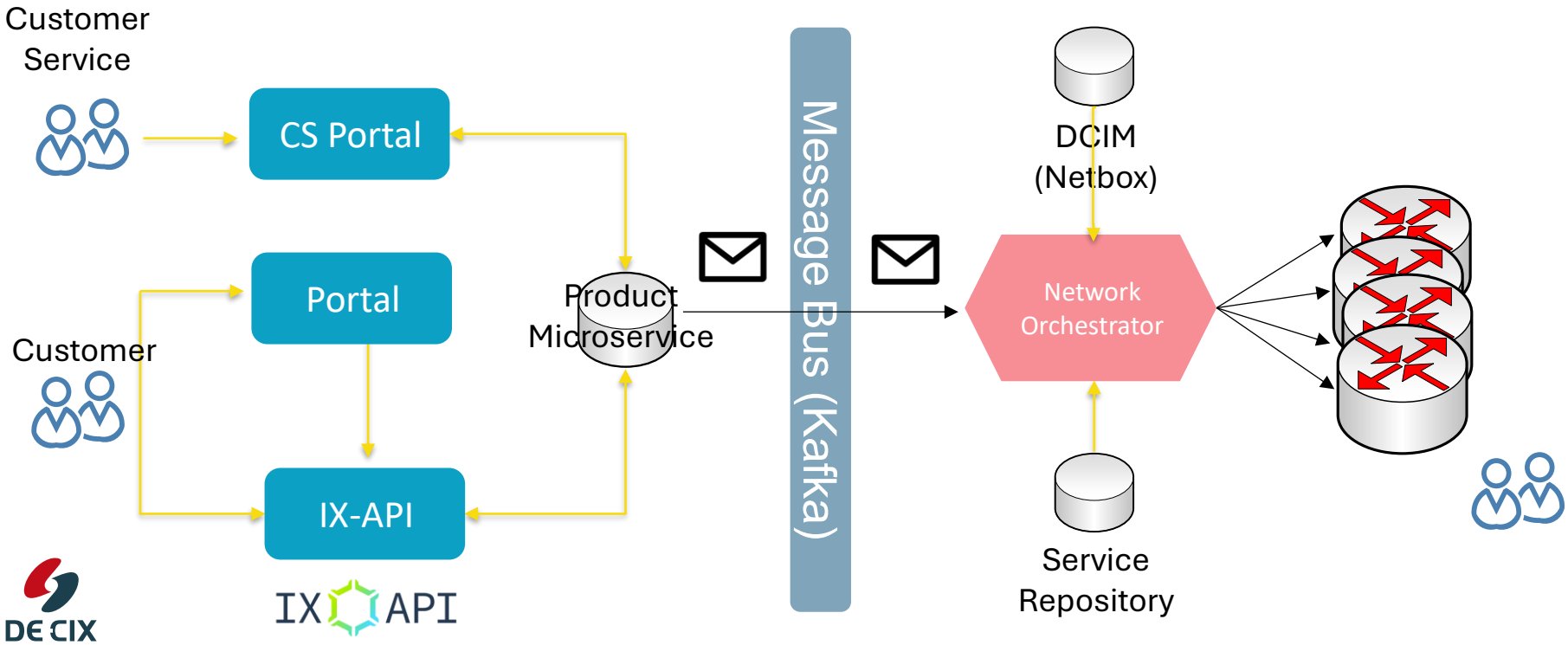
ALL-TIME PEAK
102.81 Gbit/s

GRAPH PEAK
102.81 Gbit/s

GRAPH AVERAGE
45.44 Gbit/s

CURRENT
18.60 Gbit/s

Network Orchestration – proyecto acabado



NORC evoluciona a SORC

“What if your code never failed?”

Primer puerto 800G en un Exchange Point


400G
400G
800G


NOKIA
NOKIA
NOKIA

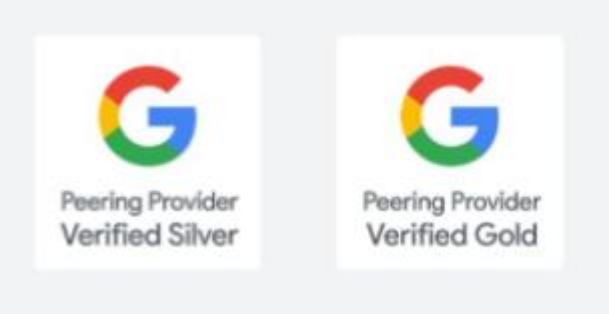
Peering con Google – Requerimientos peering directo

- Publicly routable ASN & Publicly routable address space
- 24x7 NOC contact & ASN record completed in PeeringDB
- Up to date RIPE Maintainer, ASN, AS-SET, and Route/Route6 and RPKI valid objects.
- Google only supports 100GE-LR4, and 400GE-LR4 interfaces
- Redundancy with at least two separate connections in a single metro area
- Google generally requires minimum 10 Gbps to qualify for peering.
- No support for MEDs, EBGP multihop, or BFD

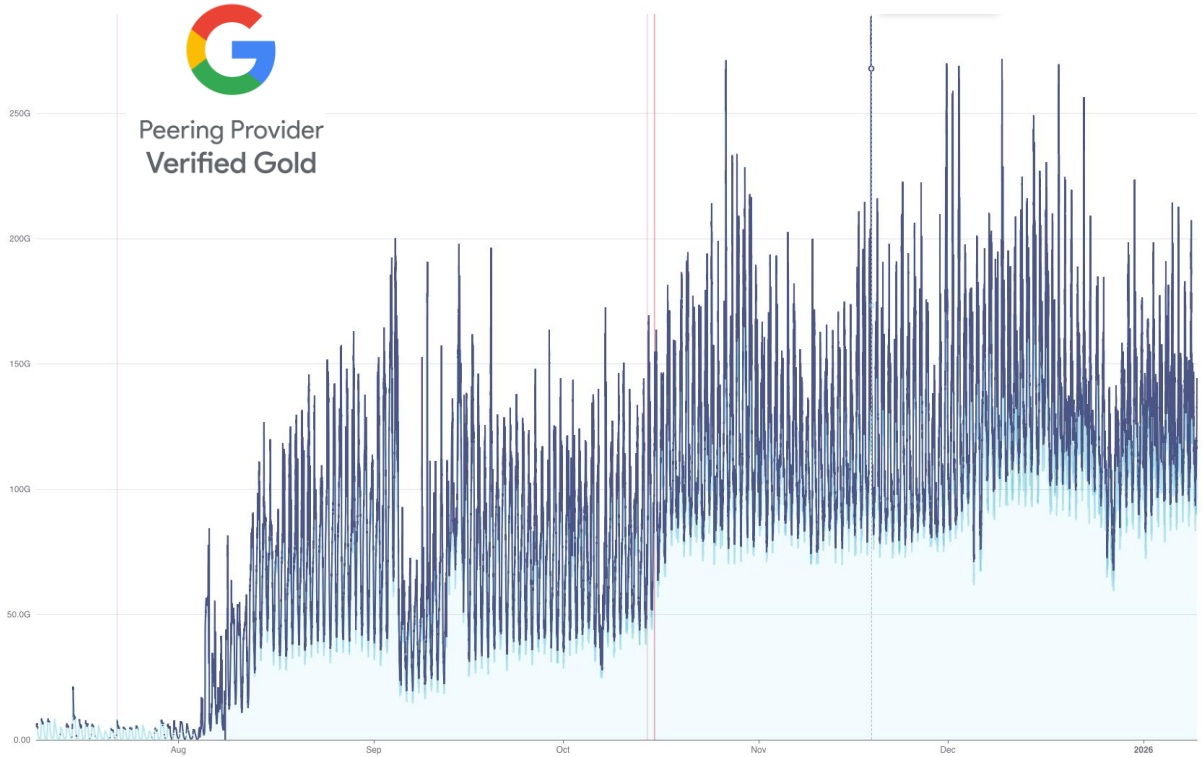
https://peering.google.com/#/options/peering

Peering con Google – introducción programa GVPP

- Google Verified Peering Provider (GVPP)
- Distintivos para ISPs con conectividad a Google diversa y fiable
- Opción para clientes de usar un VPP en vez del peering directo para optimizar su conectividad pública a Google



Google announcement blog
VPP program details

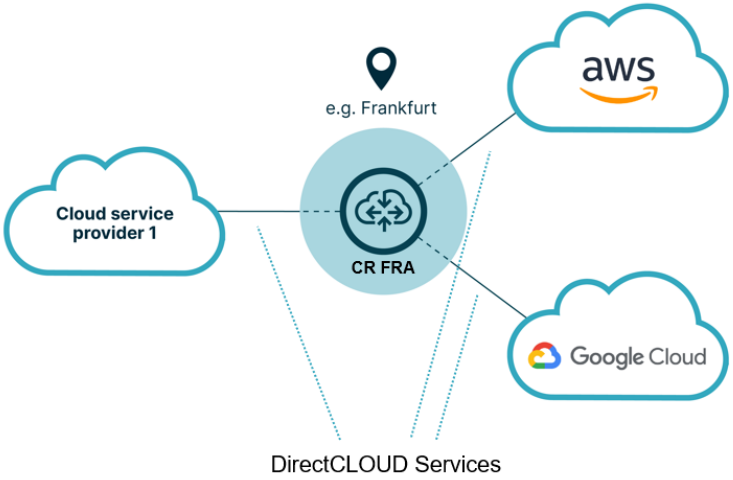


- **Europe**
- Frankfurt (FRA)
- Madrid (MAD)
- **Americas**
- Chicago (ORD)
- Dallas (DFW)
- Phoenix (PHX)
- Mexico City (MEX)
- New York City (NYC)
- Queretaro (MEX)
- Rio de Janeiro (RIO)
- Sao Paulo (SAO)
- **APAC**
- Singapore (SIN via ASEAN Peering LAN)
- Johor Bahru (JHB via ASEAN Peering LAN)
- Kuala Lumpur (KUL)
- Brunei (BWN via ASEAN Peering LAN)

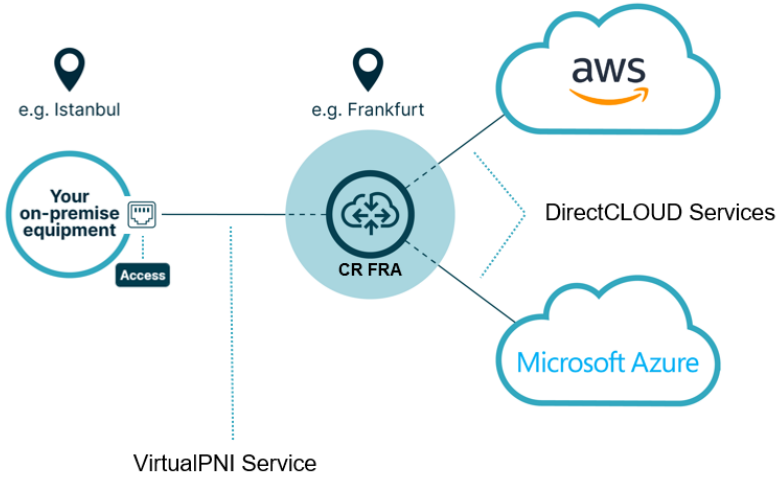
https://docs.de-cix.net/article/03x175e3yo-notes-on-additional-routes-via-globe-peer-route-service

Recordatorio Cloud ROUTER

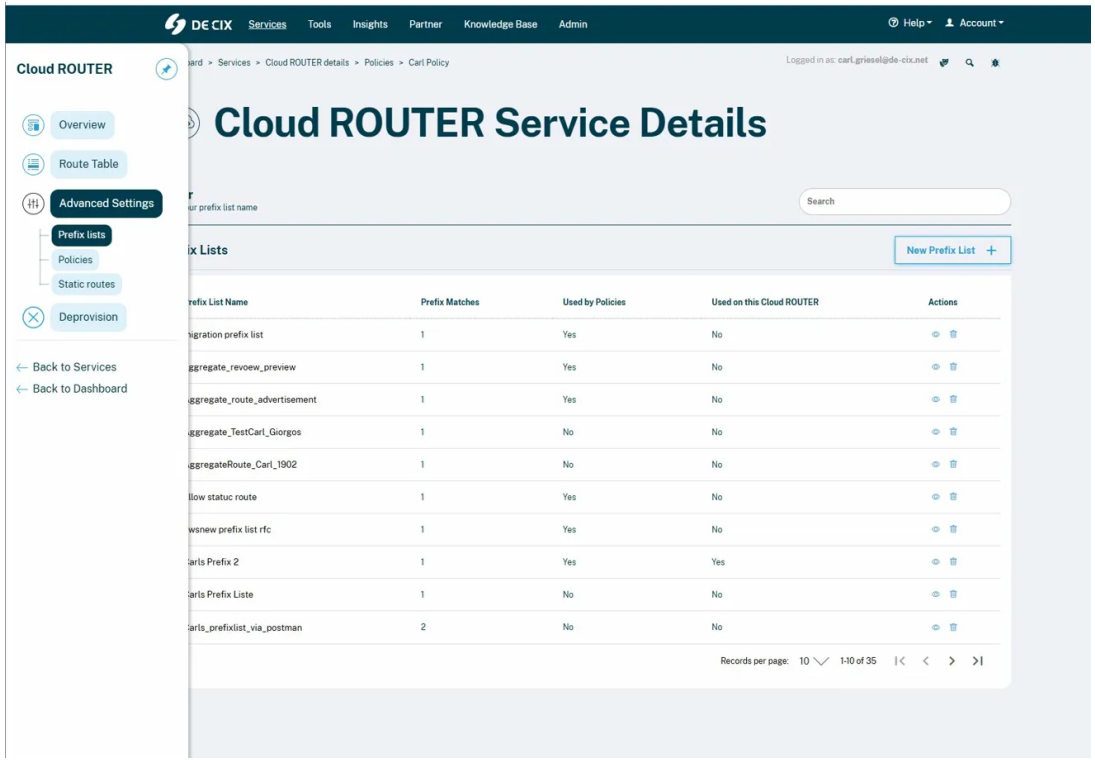
Multi-cloud setups



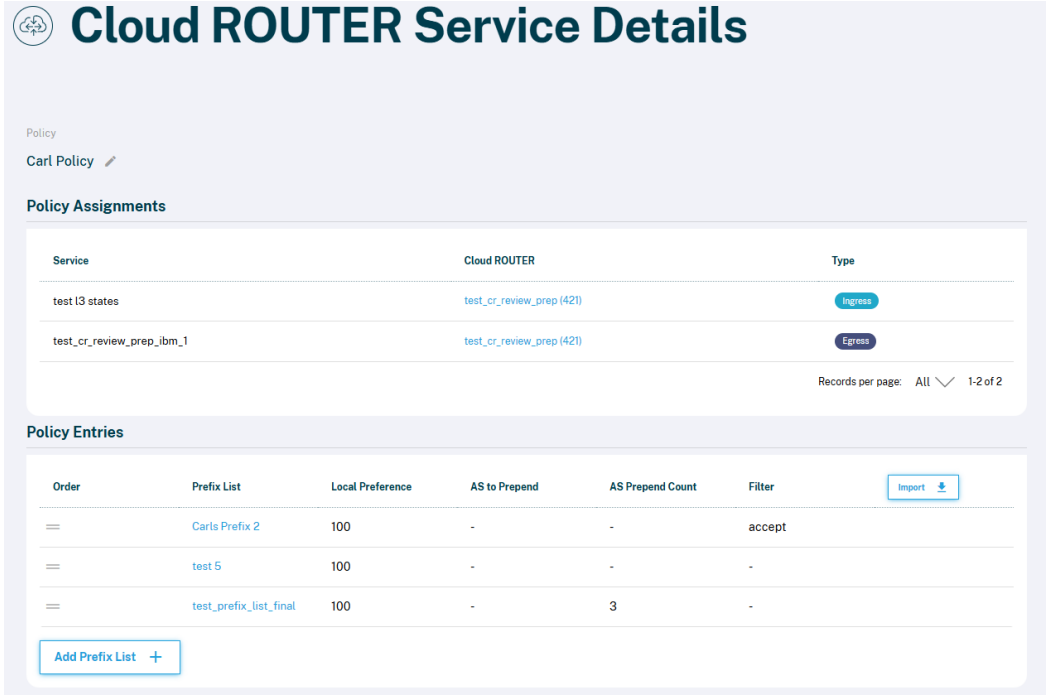
Hybrid-cloud setups



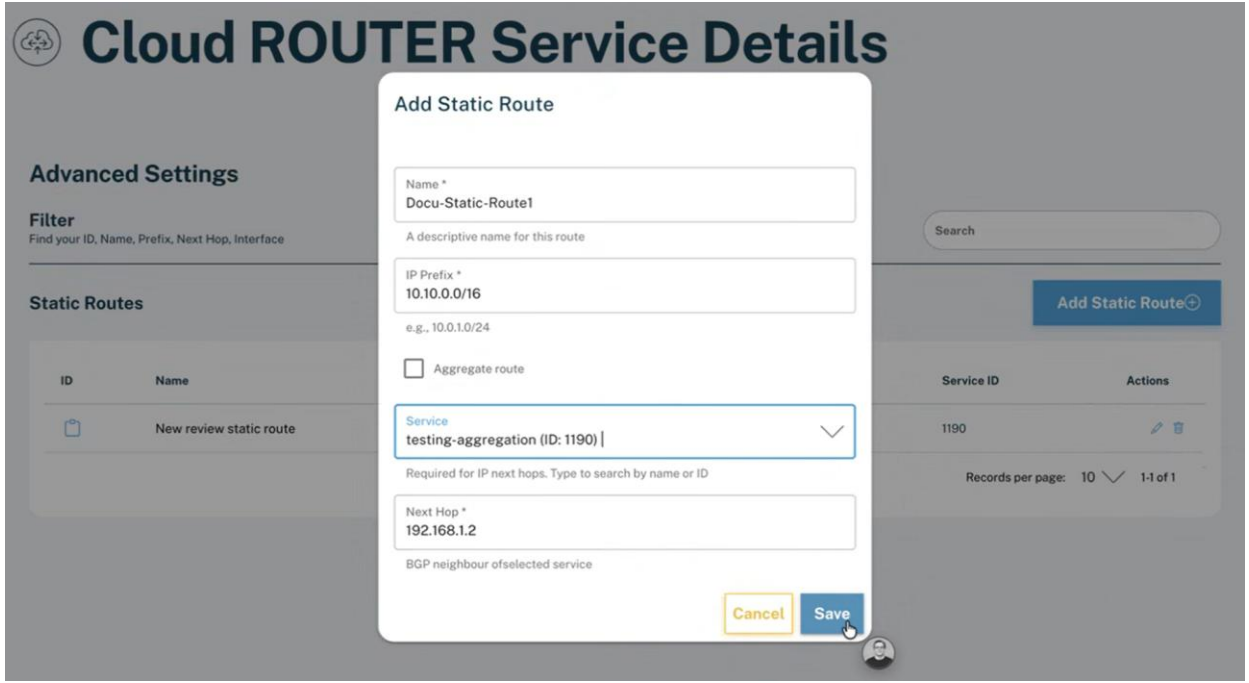
Mejoras en Cloud ROUTER



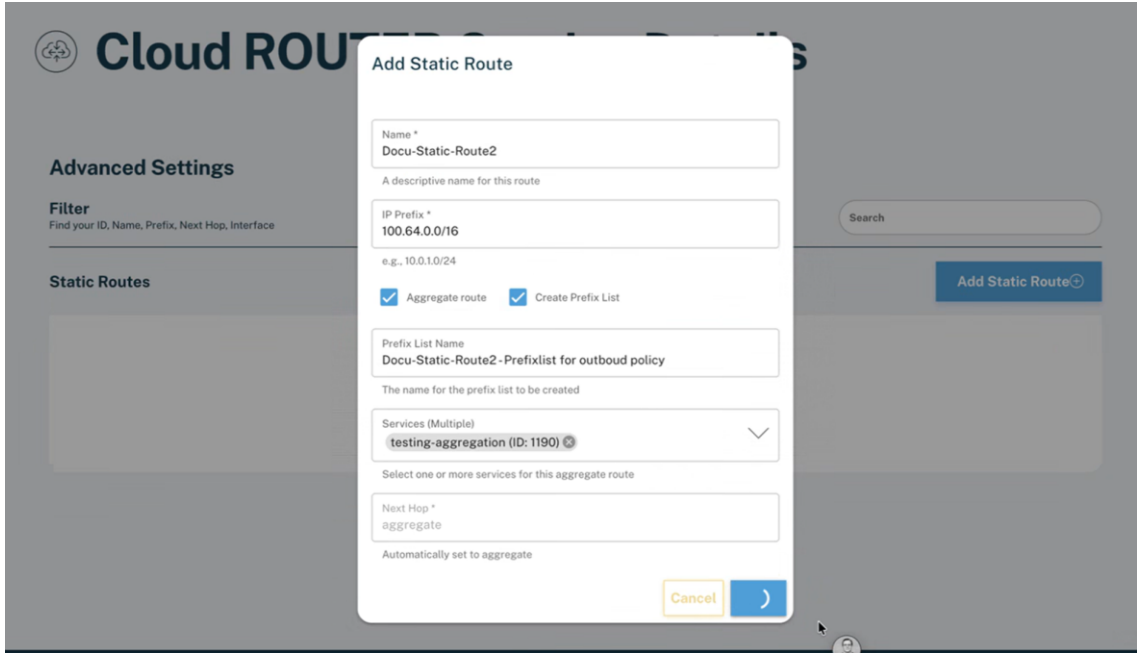
Mejoras en Cloud ROUTER



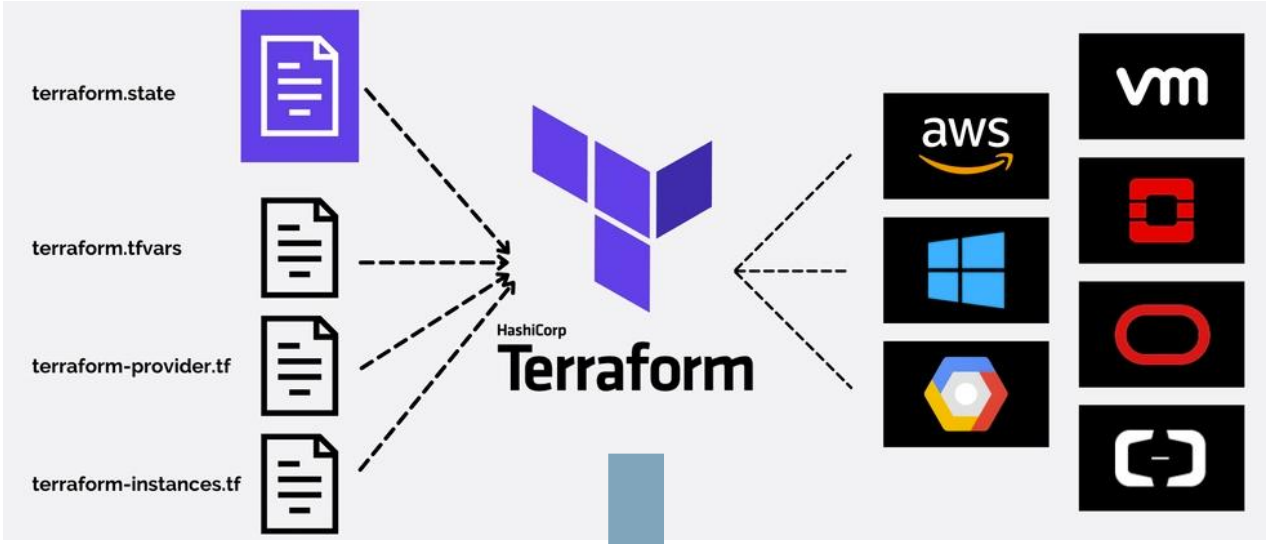
Mejoras en Cloud ROUTER

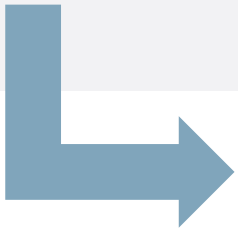


Mejoras en Cloud ROUTER



https://docs.de-cix.net/article/x0ttq3gbnr-static-routes-route-aggregation-in-cloud-router





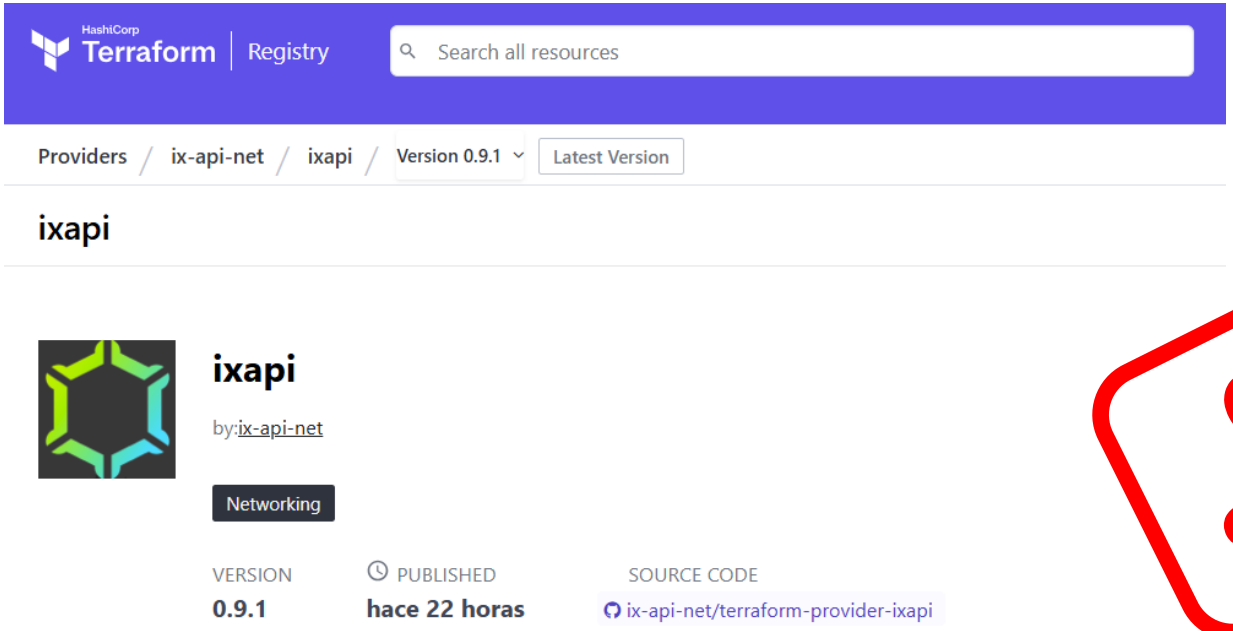
amsix

DE CIX

linx

DE CIX

Terraform para un Exchange Point



https://registry.terraform.io/providers/ix-api-net/ixapi/latest

DDoS protection model recap

Customer's perspective

	Blackholing	Blackholing Advanced	On-demand scrubbing	On-demand scrubbing (3rd)	Automated scrubbing	Automated edge mitigation
Who detects	Customer	Customer	Customer	Customer	IXP	IXP
Mitigation	All or nothing	Complex	Full	Full	Full	Full
Automation	Partial	Partial	Partial	Partial	Full	Full
Scalability	Peering capacity	Peering capacity	2.8 Tbps	2.8 Tbps	2.8 Tbps	Peering capacity

NOKIA

Fuente: ESNOG 33, "Nuevas estrategias de protección DDOS en IXP", J. Alberto Nistal

DE-CIX

Blackholing

FlowSpec

COMING SOON

Queridos cuatro frikis, gracias por vuestra atención

Marcos Sanz Grossón

VP of Product Technology

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