

LISP-MN Demo

draft-ietf-lisp-mn-05

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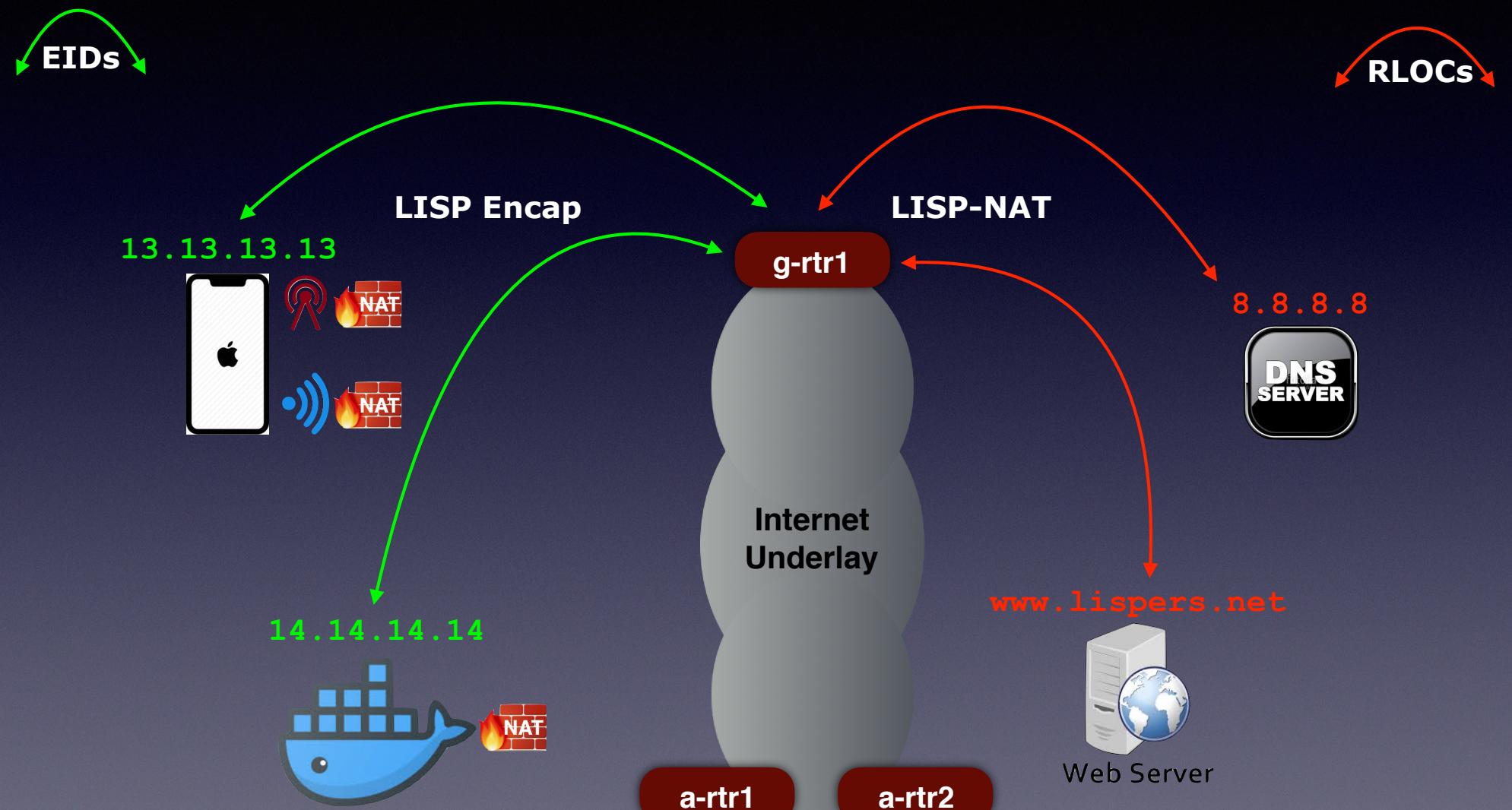
We are Demoing

- LISP-MN on an iPhone
- RTRs deployed in GCP and AWS
- LISP-MN to LISP CN behind NATs
- LISP-MN to non-LISP CN behind NATs
- Interworking via LISP-NAT

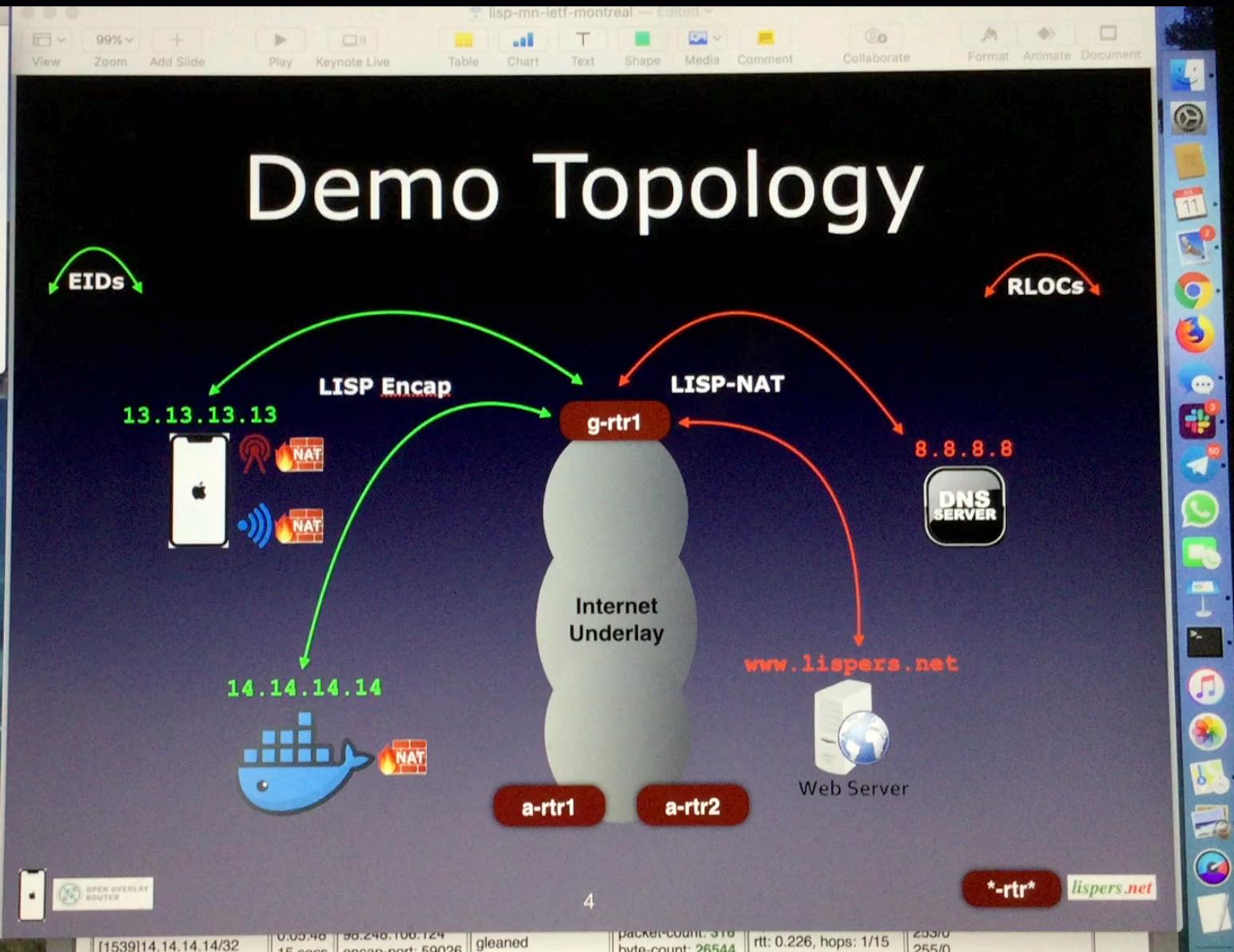
Some Magic Sauce

- LISP-MN is not running a control-plane
- LISP-MN map-cache configured with:
0.0.0.0/0 -> PETRs (RTRs)
- RTRs configured to glean xTR mappings
- NAT-traversal logic occurs in data-plane
- An effort to implement an even lighter weight xTR

Demo Topology



Live Demo



Caveats

- LISP-MN must send before it can receive
 - 2 LISP-MNs can talk to each other as long as they have talked to another LISP node or non-LISP node
- Latency exists to learn LISP-MN when it is discovered
 - But less than doing a mapping system lookup
- Asymmetry Problem:
 - If LISP-MN1 uses RTR1 and LISP-MN2 uses RTR2, they can't find each other
 - Each must use same 5-tuple hash

Todo List

- Enable RLOC-probing for reachability
- Enable RLOC-probing for LISP-Crypto Key Exchange
- Enable multiple EID and multi IID support
- Multicast Support (can show at next IETF)

Questions/Reactions/Tomatoes?

