## Recitation 9: RON

MIT - 6.033 Spring 2021 Henry Corrigan-Gibbs

Flan - Background in Row - Fun with traveroute in breakeaut rooms - Discussion

Logistics

\* DP Prep report assignment at due 3/30 \* Hands-on (ret) der Wednesdeg 3/24 \* Holdong M+T next week! \* Next Thursday: More RON

\*Mid-senester feedback soon?

Background - Who are the authors? - What is an overlay? - What are the problems with BGP this paper is trying to solve? 1) Internet paths car Sail... BGP reacts slovly 2) App might wort some why? Give youtube say on routes its trafic 3) Not surver might went to enforce some complicated policy on traffic



Breakout 1200 ms [Explain how traceroute works] With picture. 

Goal: () Find longest traceroute path that you can.

(2) Find most lossy path that you can.

(Try to trace route to earch other.)

Resilience

- What is resilience in this context? - Why does it take a while for BGP to notice route failure? - Mou does Non read fustur? Active R Measurement La More performance data collected (latency, loss, throughput) When do we care most about? Latency? Audio/vides chat Loss? Stream transfer Throughput? Netflix Others? Political consideration

- Could RON make not performance worse?

- Extra hops - Extra processing - Extra policy restrictions? - "too cleve" - b/w consumption

-Scaling: Why doesn't Rond scale to thousands of nodes? Quadratic cost of probles?

- How costly are the probles? Lo Worth it?

Why don't we use Ron?

- Scaling is one mayor issue - For whom is it worth the trouble?

Is Maybe Gogle, but they run their out fiber?

- Can you an RON w/ nustually distincting partico?

- How frequently do we see ret ontages of the kind that RON could fix? Is with the cost?

Example of one that is used Tor (s Not for peformence but for functionality