

TRACEROUTE CONSISTENCY CHECK

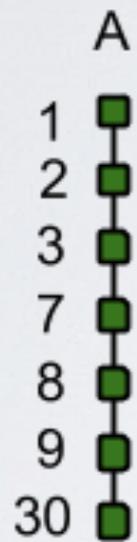
RIPE Atlas Hackathon
March 27-29, 2015
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Roma Tre University

BACKGROUND

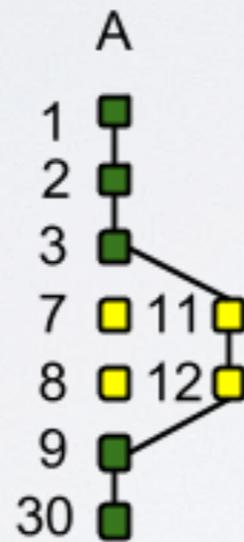
- A traceroute path changes over time due to many reasons:
 - BGP changes
 - load balancing within provider networks
 - Router failures
 - Link failures
 -

THE IDEA

Time t:
A: [1,2,3,7,8,9,30]



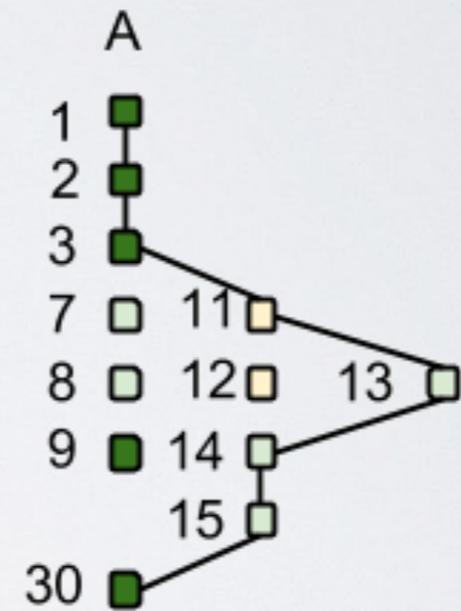
Time t+1:
A: [1,2,3,11,12,9,30]



Time t+2:
A: [1,2,3,7,8,9,30]



Time t+3:
A: [1,2,3,11,13,14,15,30]



DEMO

<http://www.vdidonato.it/videos/tr-cons.mp4>

FUTURE WORK

- Keep the current path only?
- Aggregate nodes by ASN
- Extend to more than a single path