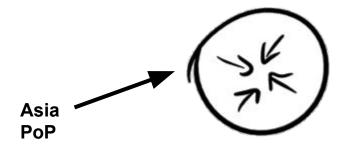
AJ FASTAND FREFURIOUS: PROPAGATION DRIFT

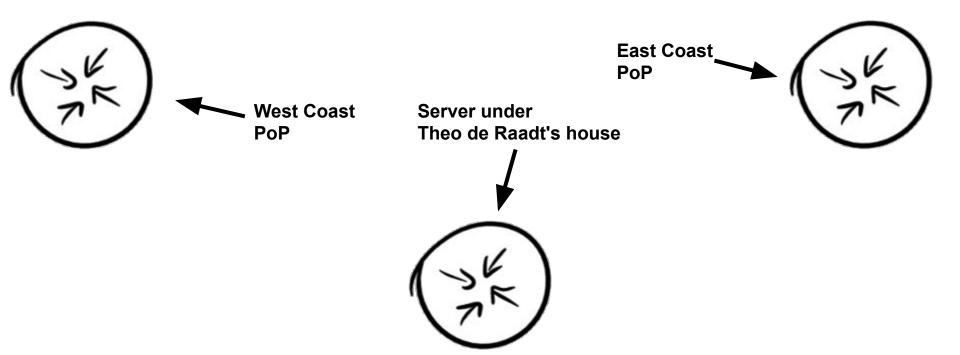
A long time ago in a job a year back

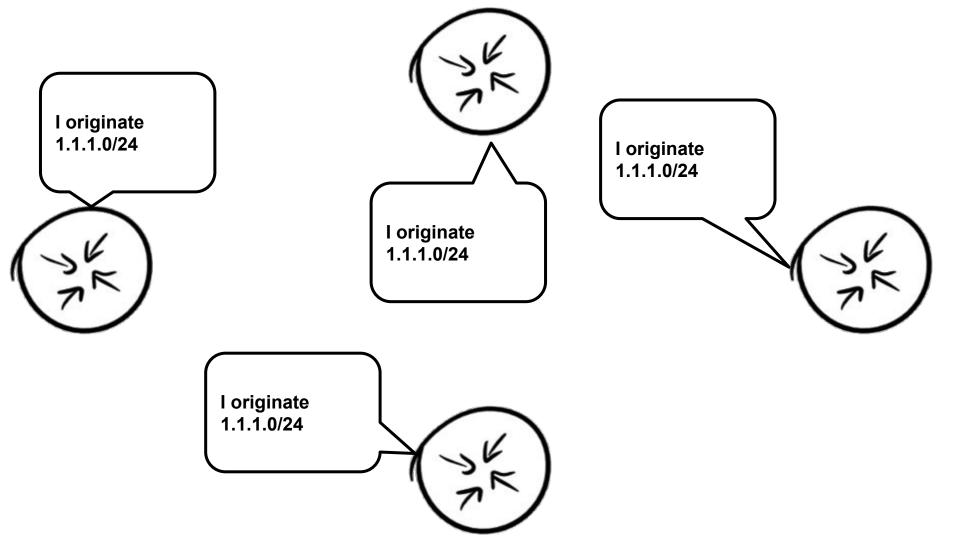


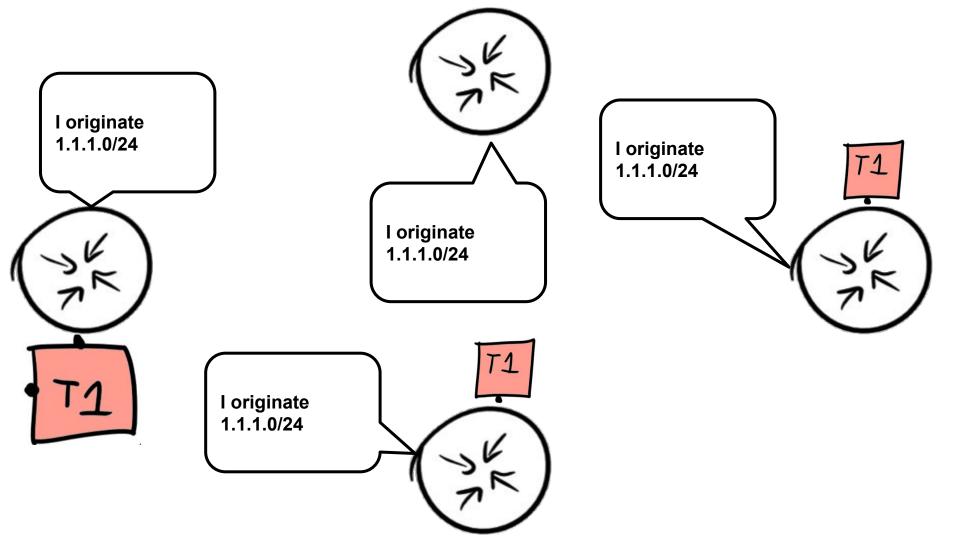
Anycast







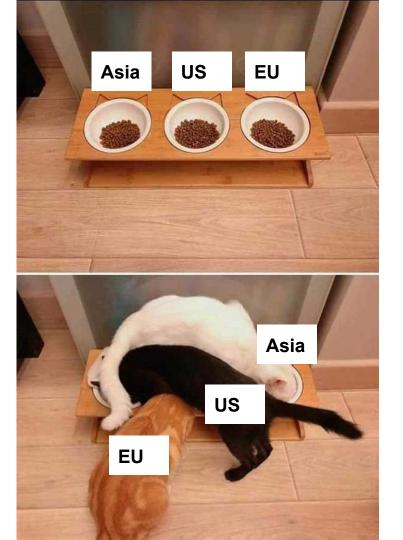




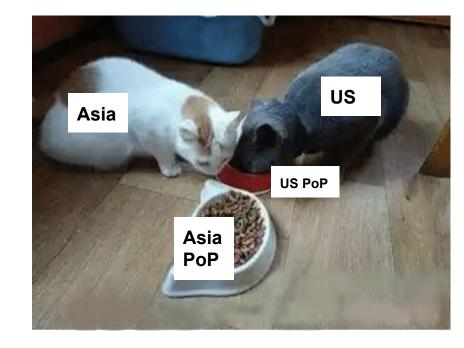


Most anycast deployments

Most anycast deployments



Better anycast deployments



EU:

AS_PATH: 13335 13335 179 1337

US:

AS_PATH: 13335 13335 179 1337

APAC:

AS_PATH: 13335 13335 179 1337

EU:

AS_PATH: 13335 13335 1299 1337

US:

AS_PATH: 13335 13335 1299 1337

APAC:

AS_PATH: 13335 13335 1299 1337

EU:

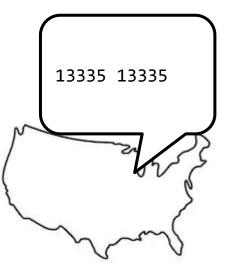
US:

APAC:





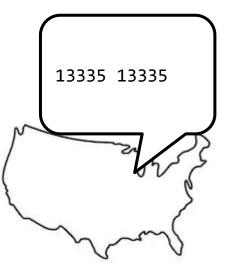








However, one day



















This was a regrettable incident

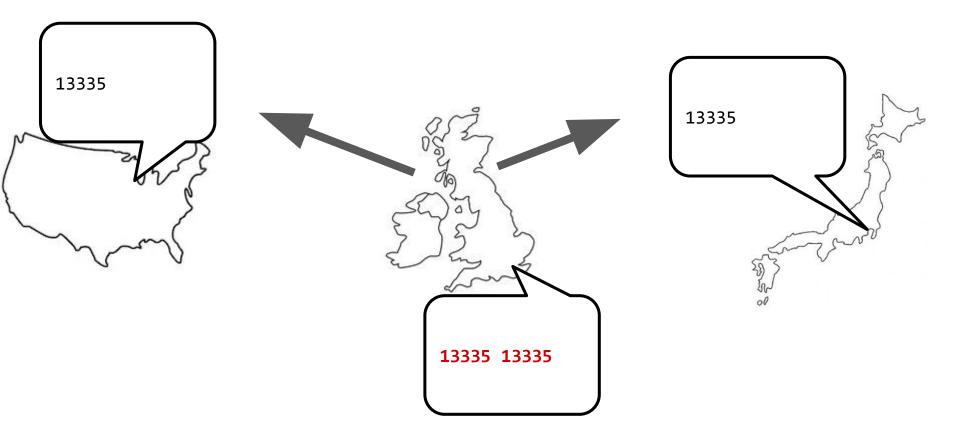


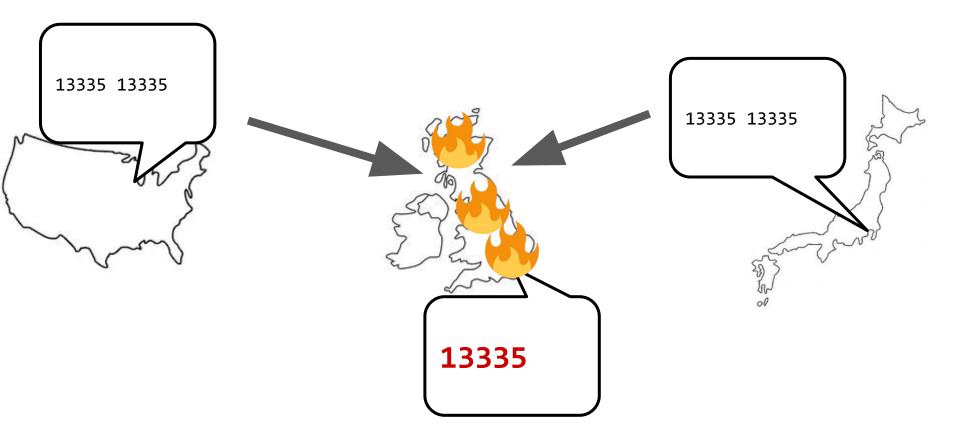
Removing these prepends is now a good idea



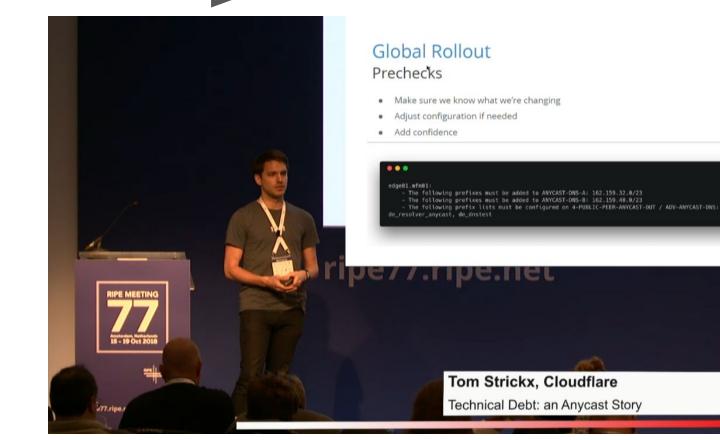
Removing these prepends is now a good idea

But what if we do the same thing again?





Network automation



https://ripe77.ripe.net/archives/video/2222/

17

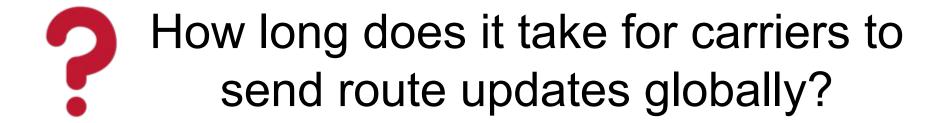


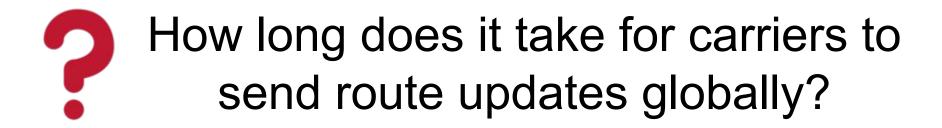
Change done without any major issues



It was observed that not all carriers came into sync at the same time

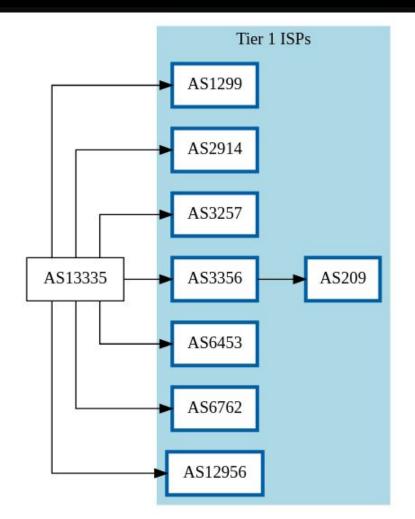
[side note]





Who is the fastest/slowest?

made with 🥗 bgp.tools







Vote & Retweet











Snail Race 🏴

Vote & Retweet





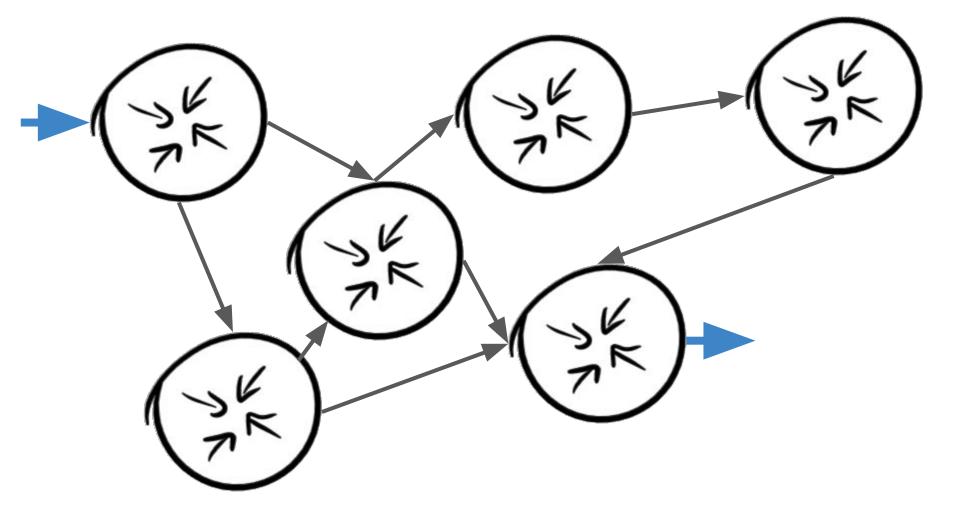
Pro tip:

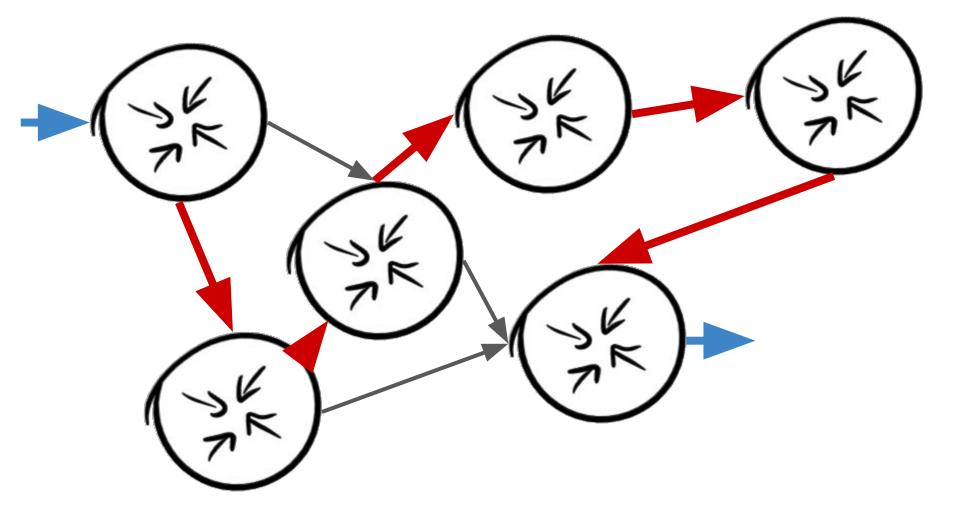
When presented with 4 options of the same, people overwhelmingly pick the 3rd one

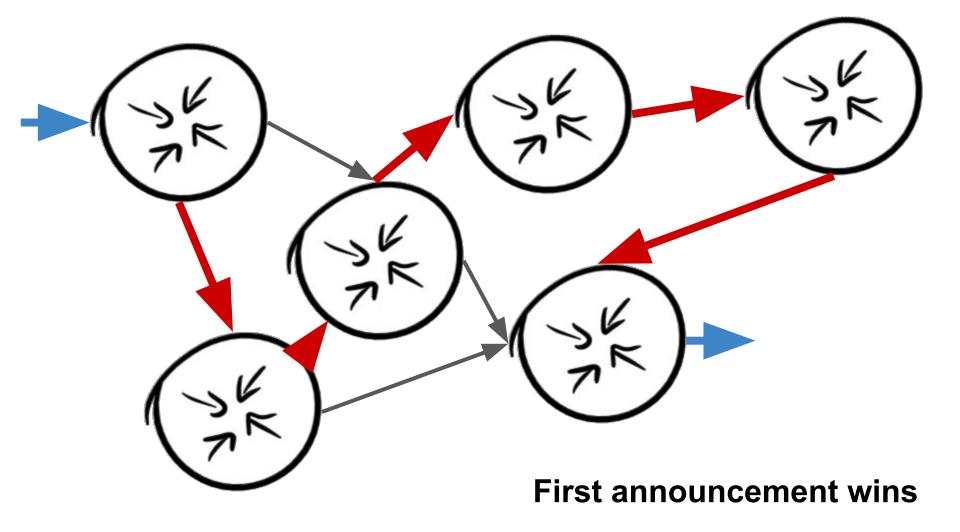
When asked for a random number between 0-9, people overwhelmingly pick 7

39,689 votes • Final results

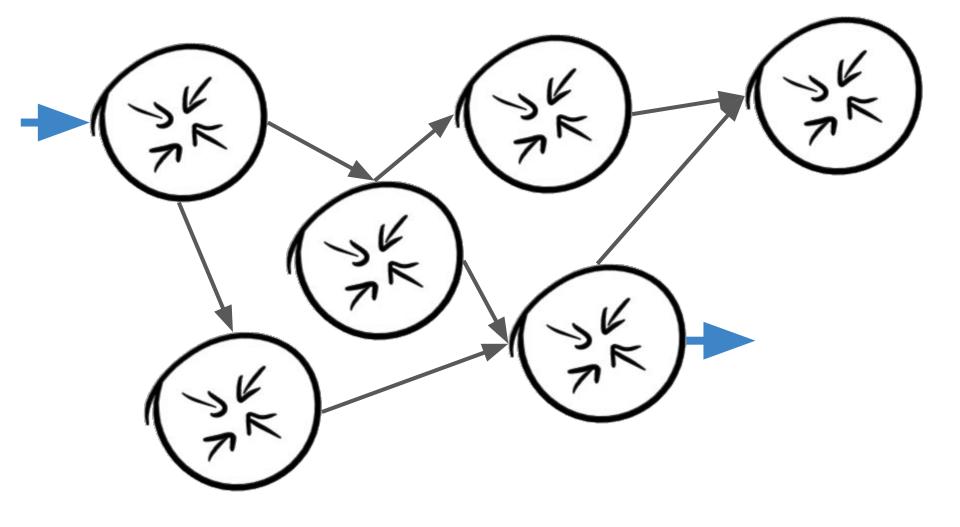


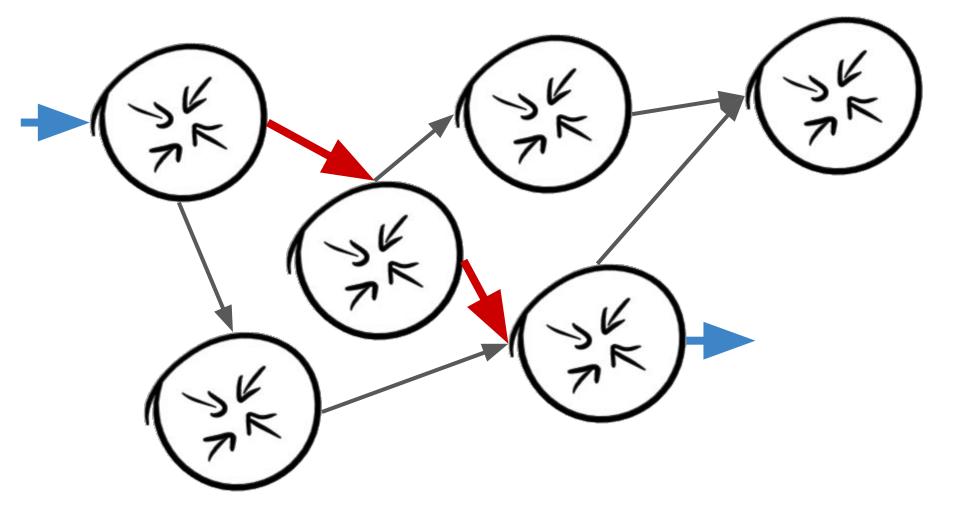


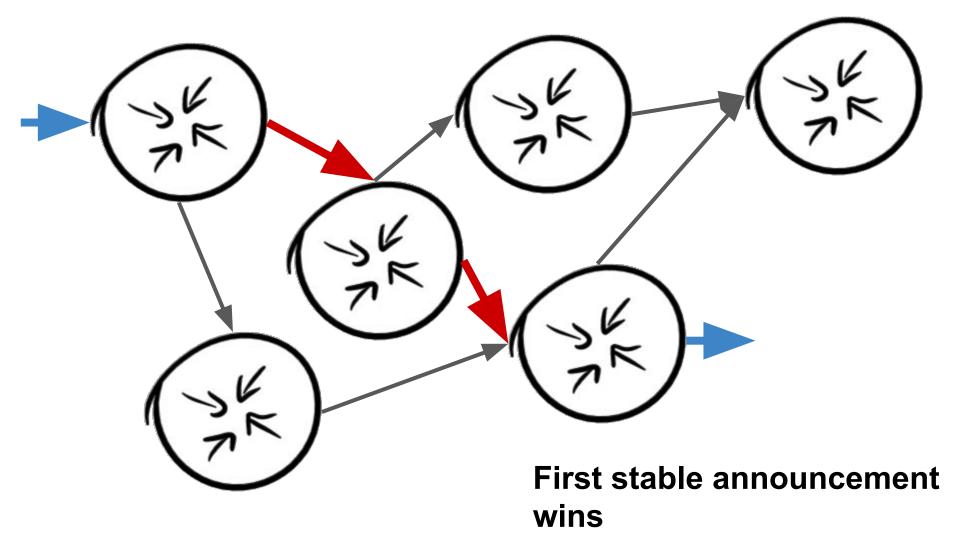


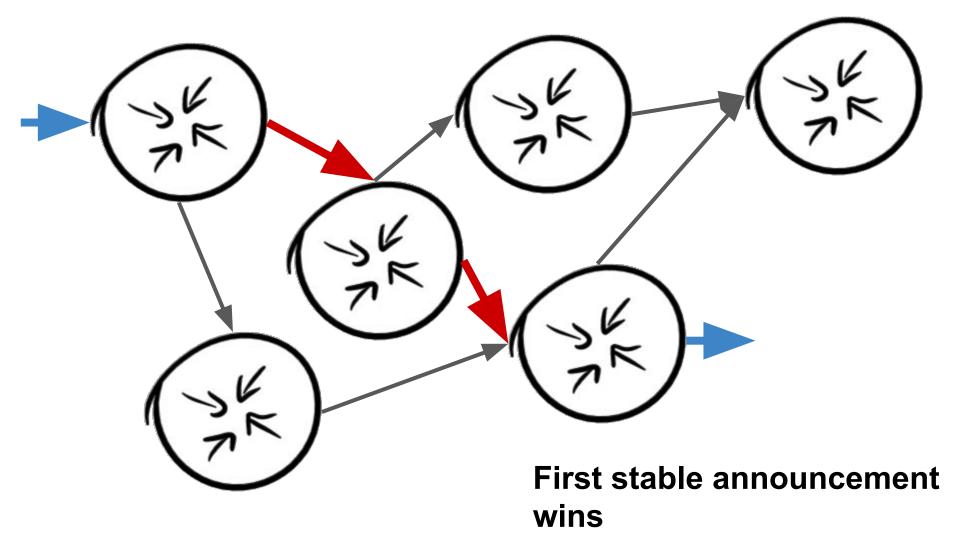


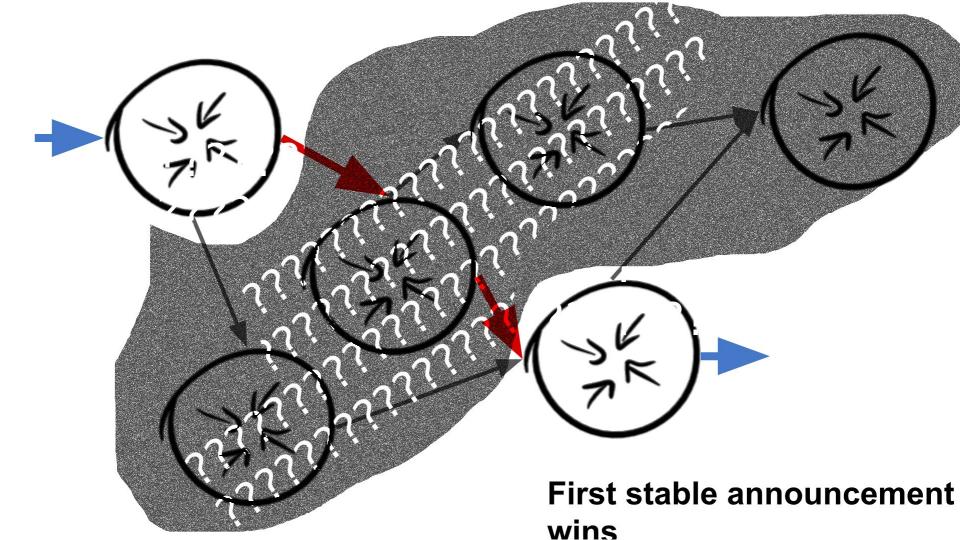


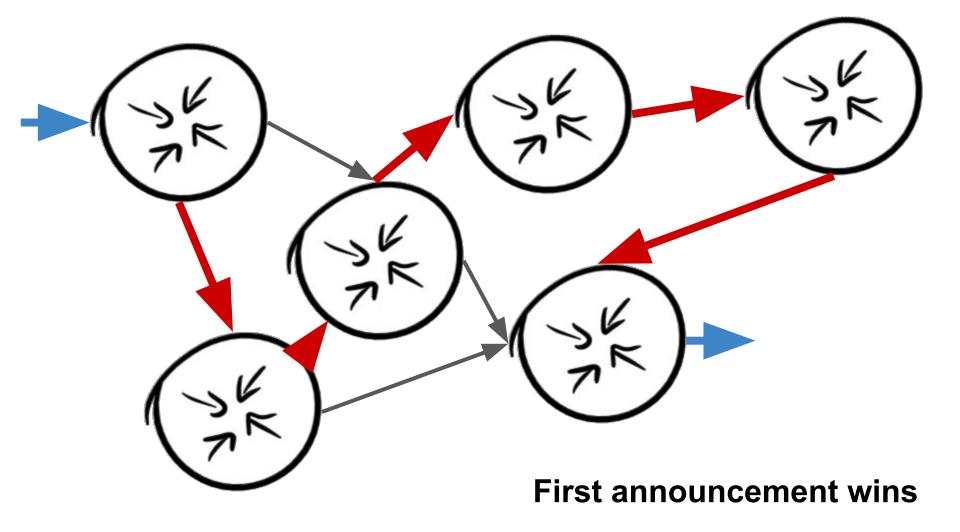














• Announce a /24 to one T1 at a time



- Announce a /24 to one T1 at a time
- 16 PoP's with these carriers are tcpdump'ing their bgp feeds



- Announce a /24 to one T1 at a time
- 16 PoP's with these carriers are tcpdump'ing their bgp feeds
- pcap's are collected post experiment

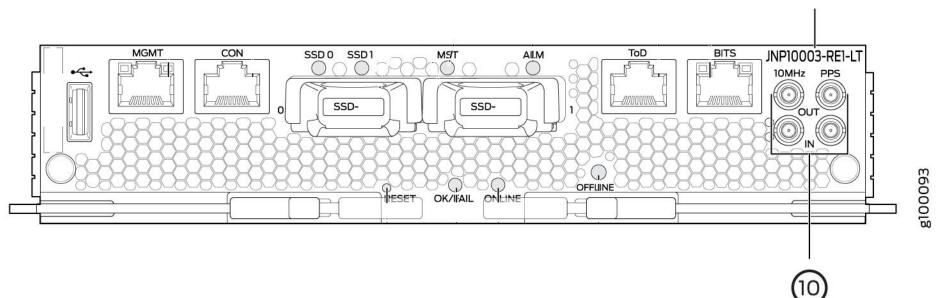
Race setup

- Announce a /24 to one T1 at a time
- 16 PoP's with these carriers are tcpdump'ing their bgp feeds
- pcap's are collected post experiment
- Program parses the packet captures BGP traffic and using the high precision timestamps, calculates latency.

Race setup

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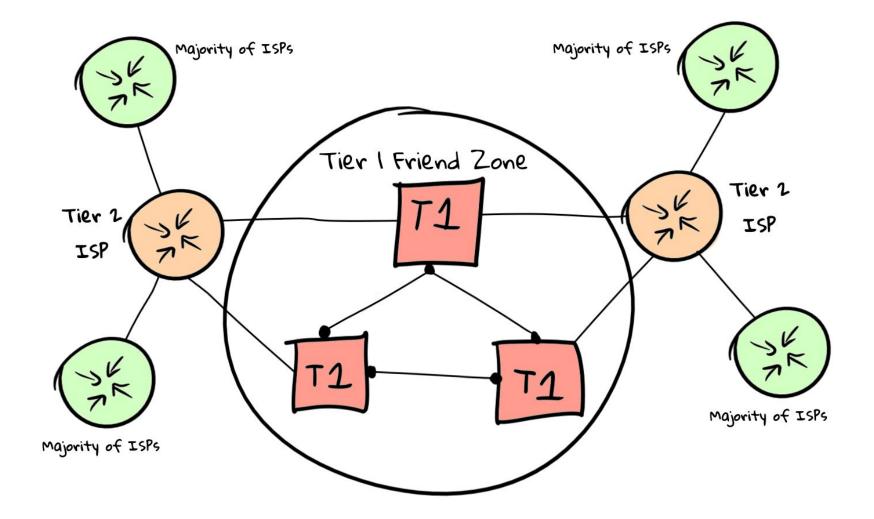
JNP10003-RE1-LT

	is:~/new-server-race\$ sort b		
1553612072316966000	2019-03-26 14:54:32.316966	+0000 GMT	ewr 64515,65534,20473,1299,62240,62240,206924
1553612073531538000	2019-03-26 14:54:33.531538	+0000 GMT	wildfire 206924
1553612074054742000	2019-03-26 14:54:34.054742	+0000 GMT	sea 64515,65534,20473,3356,6453,6453,62240,62240,206924
1553612074117278000	2019-03-26 14:54:34.117278	+0000 GMT	cdg 64515,65534,20473,1299,6453,6453,62240,62240,206924
1553612074124066000	2019-03-26 14:54:34.124066	+0000 GMT	fra 64515,65534,20473,1299,6453,6453,62240,62240,206924
1553612074149076000	2019-03-26 14:54:34.149076	+0000 GMT	lax 64515,65534,20473,3257,6453,6453,62240,62240,206924
1553612074256535000	2019-03-26 14:54:34.256535	+0000 GMT	yyz 64515,65534,20473,3356,6453,6453,62240,62240,206924
1553612074349282000	2019-03-26 14:54:34.349282	+0000 GMT	nrt 64515,65534,20473,2914,6453,6453,62240,62240,206924
1553612074362145000	2019-03-26 14:54:34.362145	+0000 GMT	sjc 64515,65534,20473,3257,6453,6453,62240,62240,206924
1553612074371090000	2019-03-26 14:54:34.37109 +	0000 GMT	mia 64515,65534,20473,3257,6453,6453,62240,62240,206924
1553612074376447000	2019-03-26 14:54:34.376447	+0000 GMT	ams 64515,65534,20473,1299,6453,6453,62240,62240,206924
1553612074434826000	2019-03-26 14:54:34.434826	+0000 GMT	lhr 64515,65534,20473,1299,6453,6453,62240,62240,206924
1553612074457718000	2019-03-26 14:54:34.457718	+0000 GMT	dfw 64515,65534,20473,2914,6453,6453,62240,62240,206924
1553612074526157000	2019-03-26 14:54:34.526157	+0000 GMT	ord 64515,65534,20473,2914,6453,6453,62240,62240,206924
1553612074552698000	2019-03-26 14:54:34.552698	+0000 GMT	fra 64515,65534,20473,3257,6453,6453,62240,62240,206924
1553612074597688000	2019-03-26 14:54:34.597688	+0000 GMT	sin 64515,65534,20473,2914,6453,6453,62240,62240,206924
1553612075053011000	2019-03-26 14:54:35.053011	+0000 GMT	lhr 64515,65534,20473,2914,6453,6453,62240,62240,206924
1553612075244176000	2019-03-26 14:54:35.244176	+0000 GMT	syd 64515,65534,20473,2914,6453,6453,62240,62240,206924
1553612095008991000	2019-03-26 14:54:55.008991	+0000 GMT	dfw 64515,65534,20473,3356,6453,6453,62240,62240,206924
1553612266956741000	2019-03-26 14:57:46.956741	+0000 GMT	ewr 64515,65534,20473,1299,6453,6453,62240,62240,206924
1553612391552044000	2019-03-26 14:59:51.552044	+0000 GMT	wildfire 206924

Time between last (ms)	Wall time (s)	Location	Raw Path	Upstreaming AS	Rx is di
0	0	wildfire	206924	-	
523.209984ms	0.523209984	sea	64515,65534,20473,3356,6453,6453,62240,62240,206924	6453	No
62.530048ms	0.585740032	cdg	64515,65534,20473,1299,6453,6453,62240,62240,206924	6453	No
6.789888ms	0.59252992	fra	64515,65534,20473,1299,6453,6453,62240,62240,206924	6453	No
25.010176ms	0.617540096	lax	64515,65534,20473,3257,6453,6453,62240,62240,206924	6453	No
107.45984ms	0.724999936	yyz	64515,65534,20473,3356,6453,6453,62240,62240,206924	6453	No
92.75008ms	0.817750016	nrt	64515,65534,20473,2914,6453,6453,62240,62240,206924	6453	No
12.859904ms	0.83060992	sjc	64515,65534,20473,3257,6453,6453,62240,62240,206924	6453	No
8.950016ms	0.839559936	mia	64515,65534,20473,3257,6453,6453,62240,62240,206924	6453	No
5.350144ms	0.84491008	ams	64515,65534,20473,1299,6453,6453,62240,62240,206924	6453	No
58.380032ms	0.903290112	lhr	64515,65534,20473,1299,6453,6453,62240,62240,206924	6453	No
22.889984ms	0.926180096	dfw	64515,65534,20473,2914,6453,6453,62240,62240,206924	6453	No
68.439808ms	0.994619904	ord	64515,65534,20473,2914,6453,6453,62240,62240,206924	6453	No
26.540032ms	1.021159936	fra	64515,65534,20473,3257,6453,6453,62240,62240,206924	6453	No
44.990208ms	1.066150144	sin	64515,65534,20473,2914,6453,6453,62240,62240,206924	6453	No
455.329792ms	1.521479936	lhr	64515,65534,20473,2914,6453,6453,62240,62240,206924	6453	No
191.160064ms	1.71264	syd	64515,65534,20473,2914,6453,6453,62240,62240,206924	6453	No
S	21.47745997	dfw	64515,65534,20473,3356,6453,6453,62240,62240,206924	6453	No
ns 📄	193.4252101	ewr	64515,65534,20473,1299,6453,6453,62240,62240,206924	6453	No

* the following findings are of my own and I encourage you to cross check this work, also I don't want to get sued by TATA

TA



Time between last (ms)	Wall time (s)	Location	Raw Path	Upstreaming AS	Rx is d
0	0	wildfire	206924	-	
2425.149952ms	2.425149952	yyz	64515,65534,20473,3257,174,174,174,174,62240,62240,622	174	No
2202.050048ms	4.6272	yyz	64515,65534,20473,1299,174,174,174,174,62240,62240,622	174	No
3328.009984ms	7.955209984	yyz	64515,65534,20473,3356,174,174,174,174,62240,62240,622	174	No
1141.260032ms	9.096470016	sea	64515,65534,20473,2914,174,174,174,174,62240,62240,622	174	No
85.090048ms	9.181560064	lhr	64515,65534,20473,2914,174,174,174,174,62240,62240,622	174	No
158.010112ms	9.339570176	syd	64515,65534,20473,17819,4826,174,62240,62240,62240,62	174	No
230.729984ms	9.57030016	dfw	64515,65534,20473,2914,174,174,174,174,62240,62240,622	174	No
56.239872ms	9.626540032	ewr	64515,65534,20473,1299,174,174,174,174,62240,62240,622	174	No
65.819904ms	9.692359936	nrt	64515,65534,20473,2914,174,174,174,174,62240,62240,622	174	No
107.650048ms	9.800009984	fra	64515,65534,20473,3257,174,174,174,174,62240,62240,622	174	No
18.660096ms	9.81867008	lax	64515,65534,20473,2914,174,174,174,174,62240,62240,622	174	No
49.769984ms	9.868440064	mia	64515,65534,20473,2914,174,174,174,174,62240,62240,622	174	No
33.319936ms	9.90176	cdg	64515,65534,20473,2914,174,174,174,174,62240,62240,622	174	No
18.200064ms	9.919960064	ams	64515,65534,20473,2914,174,174,174,174,62240,62240,622	174	No
74.170112ms	9.994130176	sjc	64515,65534,20473,2914,174,174,174,174,62240,62240,622	174	No
4ms	9.998130176	sin	64515,65534,20473,2914,174,174,174,174,62240,62240,622	174	No
16898.519808ms	26.89664998	ord	64515,65534,20473,2914,174,174,174,174,62240,62240,622	174	No
531.63008ms	27.42828006	dfw	64515,65534,20473,3356,174,174,174,174,62240,62240,622	174	No

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Time between last (ms)	Wall time (s)	Location	Raw Path	Upstreaming AS	Rx is d
0	0	wildfire	206924	-	
721.139968ms	0.721139968	yyz	64515,65534,20473,1299,3257,62240,62240,62240,206924	3257	No
64.240128ms	0.785380096	lax	64515,65534,20473,3257,62240,62240,206924	3257	Yes
9.420032ms	0.794800128	dfw	64515,65534,20473,3257,62240,62240,206924	3257	Yes
52.909824ms	0.847709952	sea	64515,65534,20473,3257,62240,62240,206924	3257	Yes
21.350144ms	0.869060096	sjc	64515,65534,20473,3257,62240,62240,206924	3257	Yes
44.879872ms	0.913939968	mia	64515,65534,20473,3257,62240,62240,206924	3257	Yes
15.830016ms	0.929769984	nrt	64515,65534,20473,2914,3257,62240,62240,62240,206924	3257	No
82.909952ms	1.012679936	fra	64515,65534,20473,1299,3257,62240,62240,62240,206924	3257	No
20.080128ms	1.032760064	cdg	64515,65534,20473,3257,62240,62240,206924	3257	Yes
36.649984ms	1.069410048	sin	64515,65534,20473,2914,3257,62240,62240,62240,206924	3257	No
19.660032ms	1.08907008	ams	64515,65534,20473,1299,3257,62240,62240,62240,206924	3257	No
19.129856ms	1.108199936	lhr	64515,65534,20473,1299,3257,62240,62240,62240,206924	3257	No
256.130048ms	1.364329984	syd	64515,65534,20473,2914,3257,62240,62240,62240,206924	3257	No
19.130112ms	1.383460096	ord	64515,65534,20473,3257,62240,62240,206924	3257	Yes
208.519936ms	1.591980032	lhr	64515,65534,20473,2914,3257,62240,62240,62240,206924	3257	No
281.209856ms	1.873189888	fra	64515,65534,20473,3257,62240,62240,206924	3257	Yes
88.730112ms	1.96192	nrt	64515,65534,20473,2914,3257,62240,62240,62240,206924	3257	No
114745.520128ms	116.7074401	ewr	64515,65534,20473,1299,3257,62240,62240,62240,206924	3257	No

* the following findings are of my own and I encourage you to cross check this work, also I don't want to get sued by GTT

Time between last (ms)	Wall time (s)	Location	Raw Path	Upstreaming AS	Rx is	
0	0	wildfire	206924	-		
632.25984ms	0.63225984	cdg	64515,65534,20473,1299,62240,62240,206924	1299	Yes	
11.300096ms	0.643559936	fra	64515,65534,20473,1299,62240,62240,206924	1299	Yes	
107.099904ms	0.75065984	sea	64515,65534,20473,3356,1299,62240,62240,206924	1299	No	
76.75008ms	0.82740992	ams	64515,65534,20473,1299,62240,62240,206924	1299	Yes	
17.64992ms	0.84505984	lhr	64515,65534,20473,2914,1299,62240,62240,206924	1299	No	
40.519936ms	0.885579776	yyz	64515,65534,20473,3257,1299,62240,62240,206924	1299	No	
27.640064ms	0.91321984	mia	64515,65534,20473,3257,1299,62240,62240,206924	1299	No	
59.910144ms	0.973129984	sjc	64515,65534,20473,2914,1299,62240,62240,206924	1299	No	
8.199936ms	0.98132992	dfw	64515,65534,20473,1299,62240,62240,206924	1299	Yes	
9.37984ms	0.99070976	lax	64515,65534,20473,3257,1299,62240,62240,206924	1299	No	
10.920192ms	1.001629952	ewr	64515,65534,20473,1299,62240,62240,206924	1299	Yes	
5.879808ms	1.00750976	yyz	64515,65534,20473,1299,62240,62240,206924	1299	Yes	
61.510144ms	1.069019904	lhr	64515,65534,20473,1299,62240,62240,206924	1299	Yes	
137.139968ms	1.206159872	ord	64515,65534,20473,3257,1299,62240,62240,206924	1299	No	
211.780096ms	1.417939968	nrt	64515,65534,20473,2914,1299,62240,62240,206924	1299	No	
12.279808ms	1.430219776	sin	64515,65534,20473,2914,1299,62240,62240,206924	1299	No	
499.030016ms	1.929249792	nrt	64515,65534,20473,2914,1299,62240,62240,206924	1299	No	
198.569984ms	2.127819776	syd	64515,65534,20473,2914,1299,62240,62240,206924	1299	No	
21135.510016ms	23.26332979	mia	64515,65534,20473,1299,62240,62240,206924	1299	Yes	
3196.370176ms	26.45969997	ord	64515,65534,20473,1299,62240,62240,206924	1299	Yes	

* the following findings are of my own and I encourage you to cross check this work, also I don't want to get sued by Telia

Time between last (ms)	Wall time (s)	Location	Raw
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18.50807987 sea

0

18508.079872ms

0 wildfire

v Path

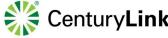
64515,65534,20473,3356,62240,62240,206924

Upstreaming AS Rx is

Yes

206924 -

3356



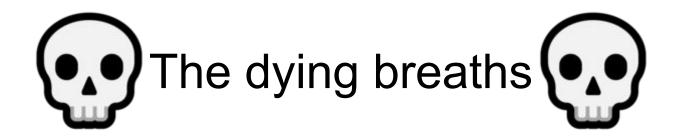


* the following findings are of my own and I encourage you to cross check this work, also I don't want to get sued by CenturyLink or Level 3 or whoever owns you seriously it's getting confusing now

10.00001001	000				
18.87362995	yyz	64515,65534,20473,3356,62240,62240,206924	3356	Yes	
19.11552	lhr	64515,65534,20473,2914,3356,3356,3356,3356,3356,62240	3356	No	
19.36670003	cdg	64515,65534,20473,2914,3356,3356,3356,3356,3356,62240	3356	No	
19.54115994	mia	64515,65534,20473,2914,3356,3356,3356,3356,3356,62240	3356	No	
19.62843981	fra	64515,65534,20473,1299,3356,3356,3356,3356,3356,62240	3356	No	
19.63453005	sin	64515,65534,20473,2914,3356,3356,3356,3356,3356,62240	3356	No	
19.64144	ewr	64515,65534,20473,1299,3356,3356,3356,3356,3356,62240	3356	No	
19.69474995	ams	64515,65534,20473,2914,3356,3356,3356,3356,3356,62240	3356	No	
19.90704	dfw	64515,65534,20473,2914,3356,3356,3356,3356,3356,62240	3356	No	
19.97918003	lax	64515,65534,20473,2914,3356,3356,3356,3356,3356,62240	3356	No	
19.98008986	nrt	64515,65534,20473,2914,3356,3356,3356,3356,3356,62240	3356	No	
20.16756992	sjc	64515,65534,20473,2914,3356,3356,3356,3356,3356,62240	3356	No	
20.36167987	syd	64515,65534,20473,2914,3356,3356,3356,3356,3356,62240	3356	No	
30.45648998	ewr	64515,65534,20473,3356,62240,62240,206924	3356	Yes	
34.42011981	mia	64515,65534,20473,3356,62240,62240,206924	3356	Yes	
35.62766003	ord	64515,65534,20473,2914,3356,3356,3356,3356,3356,62240	3356	No	
37.3117399	sjc	64515,65534,20473,3356,62240,62240,206924	3356	Yes	
37.78798003	fra	64515,65534,20473,3356,62240,62240,206924	3356	Yes	
38.22249984	dfw	64515,65534,20473,3356,62240,62240,206924	3356	Yes	
39.48701005	ord	64515,65534,20473,23352,3356,62240,62240,206924	3356	No	
44.59369984	ams	64515,65534,20473,3356,62240,62240,206924	3356	Yes	
46.01985997	ord	64515,65534,20473,3356,62240,62240,206924	3356	Yes	
46.71531981	lhr	64515,65534,20473,3356,62240,62240,206924	3356	Yes	
50.51695002	cdg	64515,65534,20473,3356,62240,62240,206924	3356	Yes	
	19.11552 19.36670003 19.54115994 19.62843981 19.63453005 19.64144 19.69474995 19.90704 19.97918003 19.98008986 20.16756992 20.36167987 30.45648998 34.42011981 35.62766003 37.3117399 37.78798003 38.22249984 39.48701005 44.59369984 46.01985997 46.71531981	18.87362995 yyz 19.11552 Ihr 19.36670003 cdg 19.54115994 mia 19.62843981 fra 19.63453005 sin 19.63453005 sin 19.63453005 sin 19.63453005 ams 19.63453005 ams 19.63453005 ams 19.69474995 ams 19.907040 dfw 19.907040 afs 19.907040 sid 20.16756992 sjc 20.36167987 syd 30.45648998 ewr 30.45648998 ewr 317.3117399 sjc 37.78798003 fra 38.22249984 dfw 39.48701005 ord 44.59369984 ams 46.01985997 ord 46.71531981 lhr 50.51695002 cdg	19.11552Ihr64515,65534,20473,2914,3356,3356,3356,3356,3356,3356,6224019.36670003cdg64515,65534,20473,2914,3356,3356,3356,3356,3356,6224019.54115994mia64515,65534,20473,2914,3356,3356,3356,3356,3356,6224019.62843981fra64515,65534,20473,2914,3356,3356,3356,3356,3356,6224019.63453005sin64515,65534,20473,2914,3356,3356,3356,3356,3356,6224019.64144ewr64515,65534,20473,2914,3356,3356,3356,3356,3356,6224019.69474995ams64515,65534,20473,2914,3356,3356,3356,3356,3356,6224019.90704dfw64515,65534,20473,2914,3356,3356,3356,3356,3356,6224019.97918003lax64515,65534,20473,2914,3356,3356,3356,3356,3356,6224019.97918003lax64515,65534,20473,2914,3356,3356,3356,3356,3356,6224020.16756992sjc64515,65534,20473,2914,3356,3356,3356,3356,3356,6224020.36167987syd64515,65534,20473,3914,3356,3356,3356,3356,3356,6224030.45648998ewr64515,65534,20473,3914,3356,3356,3356,3356,3356,6224037.311739sjc64515,65534,20473,3356,62240,62240,20692437.311739sjc64515,65534,20473,3356,62240,62240,20692438.22249984dfw64515,65534,20473,3356,62240,62240,20692439.48701005ord64515,65534,20473,3356,62240,62240,20692439.48701005ord64515,65534,20473,3356,62240,62240,20692444.59369984ams64515,65534,20473,3356,62240,62240,20692445.01985997ord64515,65534,20473,3356,62240,62240,20692446.71531981Ihr64515,65534,20473,3356,62240,6	19.11552 Ihr 64515,65534,20473,2914,3356,3356,3356,3356,3356,62240 3356 19.36670003 cdg 64515,65534,20473,2914,3356,3356,3356,3356,3356,62240 3356 19.54115994 mia 64515,65534,20473,2914,3356,3356,3356,3356,3356,62240 3356 19.62843981 fra 64515,65534,20473,2914,3356,3356,3356,3356,3356,62240 3356 19.63453005 sin 64515,65534,20473,2914,3356,3356,3356,3356,3356,62240 3356 19.64144 ewr 64515,65534,20473,2914,3356,3356,3356,3356,3356,62240 3356 19.69474995 ams 64515,65534,20473,2914,3356,3356,3356,3356,3356,62240 3356 19.99718003 lax 64515,65534,20473,2914,3356,3356,3356,3356,3356,62240 3356 19.99718003 lax 64515,65534,20473,2914,3356,3356,3356,3356,3356,62240 3356 20.16756992 sjc 64515,65534,20473,2914,3356,3356,3356,3356,3356,62240 3356 20.36167987 syd 64515,65534,20473,2914,3356,3356,3356,3356,3356,62240 3356 33.642766003 ord 64515,65534,20473,3356,62240,62240,206924 3356 37.317393 sjc 64515,65534,20473,3356,62240,62240,206924	19.11552 Inr 64515,65534,20473,2914,3356,3356,3356,3356,3356,62240 3356 No 19.36670003 cdg 64515,65534,20473,2914,3356,3356,3356,3356,3356,62240 3356 No 19.54115994 mia 64515,65534,20473,2914,3356,3356,3356,3356,3356,62240 3356 No 19.62843981 fra 64515,65534,20473,1299,3356,3356,3356,3356,3356,62240 3356 No 19.63453005 sin 64515,65534,20473,2914,3356,3356,3356,3356,3356,62240 3356 No 19.64144 ewr 64515,65534,20473,2914,3356,3356,3356,3356,3356,62240 3356 No 19.69474995 ams 64515,65534,20473,2914,3356,3356,3356,3356,3356,62240 3356 No 19.90704 dfw 64515,65534,20473,2914,3356,3356,3356,3356,3356,62240 3356 No 19.9907080 nrt 64515,65534,20473,2914,3356,3356,3356,3356,3356,63240 3356 No 19.9907080 nrt 64515,65534,20473,2914,3356,3356,3356,3356,3356,63240 3356 No 20.1675692 sjc 64515,65534,20473,3914,3356,3356,3356,3356,3356,63240 3356 No 30.45648998 ewr<

Time between last (ms)	Wall time (s)	Location	Raw Path	Upstreaming AS	Rx is d
0	0	wildfire	206924	-	
814.89024ms	0.81489024	ewr	64515,65534,20473,2914,62240,62240,206924	2914	Yes
90.649856ms	0.905540096	fra	64515,65534,20473,2914,62240,62240,206924	2914	Yes
290.150144ms	1.19569024	lax	64515,65534,20473,2914,62240,62240,206924	2914	Yes
0.57984ms	1.19627008	cdg	64515,65534,20473,2914,62240,62240,206924	2914	Yes
121.449984ms	1.317720064	yyz	64515,65534,20473,1299,2914,62240,62240,206924	2914	No
5.100032ms	1.322820096	lhr	64515,65534,20473,2914,62240,62240,206924	2914	Yes
24.04992ms	1.346870016	nrt	64515,65534,20473,2914,62240,62240,206924	2914	Yes
33.970176ms	1.380840192	ams	64515,65534,20473,1299,2914,62240,62240,206924	2914	No
1.12ms	1.381960192	dfw	64515,65534,20473,3257,2914,62240,62240,206924	2914	No
29.569792ms	1.411529984	sea	64515,65534,20473,3356,2914,62240,62240,206924	2914	No
81.39008ms	1.492920064	sjc	64515,65534,20473,3257,2914,62240,62240,206924	2914	No
68.790016ms	1.56171008	sea	64515,65534,20473,2914,62240,62240,206924	2914	Yes
63.350016ms	1.625060096	ord	64515,65534,20473,3257,2914,62240,62240,206924	2914	No
57.07008ms	1.682130176	mia	64515,65534,20473,3257,2914,62240,62240,206924	2914	No
75.670016ms	1.757800192	ams	64515,65534,20473,2914,62240,62240,206924	2914	Yes
108.919808ms	1.86672	sjc	64515,65534,20473,2914,62240,62240,206924	2914	Yes
196.820224ms	2.063540224	mia	64515,65534,20473,2914,62240,62240,206924	2914	Yes
75.819776ms	2. <mark>13936</mark>	syd	64515,65534,20473,2914,62240,62240,206924	2914	Yes
54.889984ms	2.194249984	dfw	64515,65534,20473,2914,62240,62240,206924	2914	Yes
0.020224ms	2.194270208	ord	64515,65534,20473,2914,62240,62240,206924	2914	Yes
17.499904ms	2.211770112	sin	64515,65534,20473,2914,62240,62240,206924	2914	Yes

NTTCommunications * the following findings are of my own and I encourage you to cross check this work, also I don't want to get sued by NTT and I still hope we can be friends Job S



THE FASTAND THEFURIOUS: PROPAGATION DRIFT

FASTAND FREFURIOUS: PROPAGATION DRIFT

Questions?

THE

THE FURIOUS:

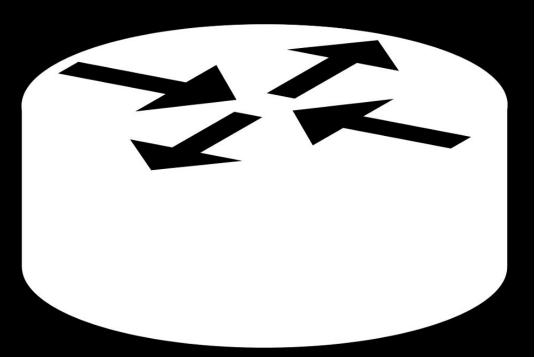
DRIFT

PROPAGATION

EASTAND

Questions?

ben@benjojo.co.uk



Using bgp.he.net? Using bgpview.io? Using radar.qrator.net?

I've been building a (opinionated but neutral) routing table utility in my spare time!

bgp.tools

Check it out! I <u>really</u> want feedback

FASTAND FHEFURIOUS: PROPAGATION DRIFT