

Follow up :

AMS-IX Route-Server

Performance Test Euro-IX 20th

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April 18th, 2012

BIRD multi-table vs single table

500 peers IPv4, 128000 prefixes	Convergence Time	Memory Usage	
		Whole system (compared to idle)	BIRD usage report (show memory)
Use multi-tables	~ 8 minutes	17.2 GB	5250 MB
Use single master table	~ 1.5 minutes	400MB	52 MB

Does 9000-bytes MTU help ?

Test case 1012 peers, 259072 IPv6 prefixes

	Convergence time MTU 1500	Convergence time MTU 9000
Cisco ASR1001 IOS XE 3.5	~ 15 minutes	~ 10 minutes

Upcoming changes for AMS-IX route-servers

- We are going to phase out OpenBGPD
- Hybrid implementation
 - 1 x Cisco ASR1001 runs IOS XE 3.5
 - 1 x Linux server runs BIRD 1.3.7

Tools to test your route-server

Check out EXABGP !

- Open-source BGP engine that could be used to open BGP sessions and inject prefixes
- Light-weight
- Easy text-based configurations
- <http://code.google.com/p/exabgp/>

Euro IX Route-Server test-bed working group

Members

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Objectives

- Share common knowledge and best-practice in deploying route-servers
- Standardize test cases and tools for route-server testing (base on open-source tools)
- Update Euro IX WIKI BCP for route-server section