

Deploying a Global Anycast Network on Equinix Metal



Prerequisites

1. You have an account!

If not sign up here: https://console.equinix.com/signup



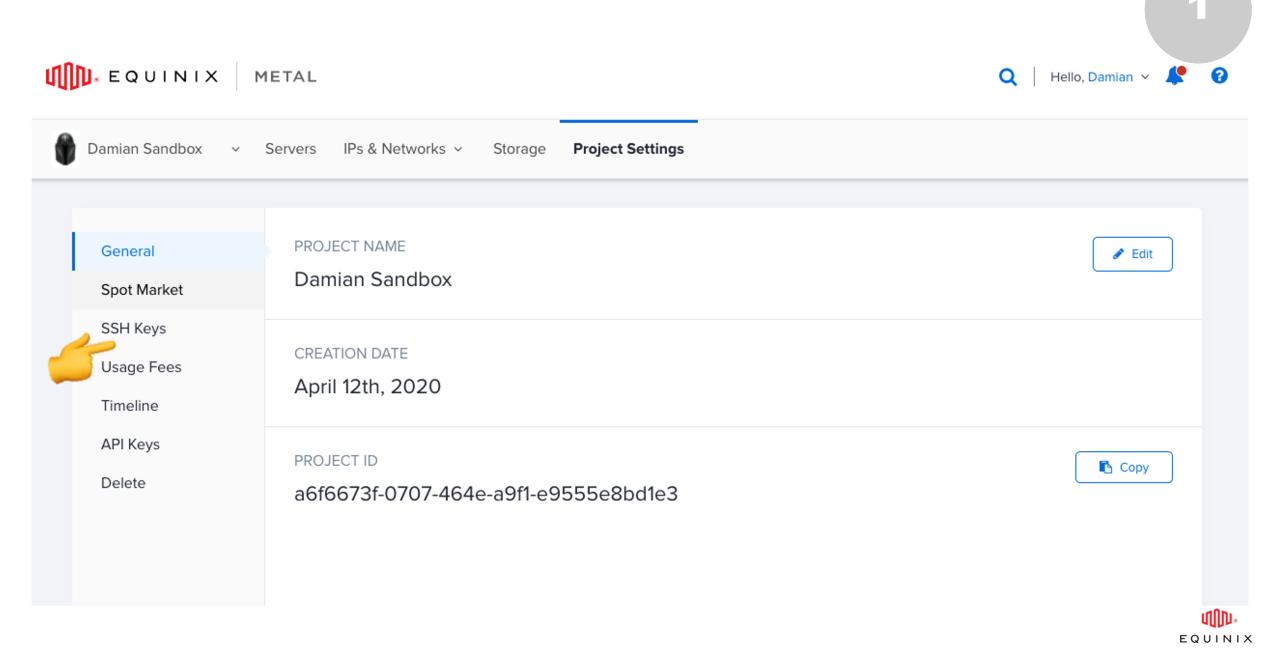


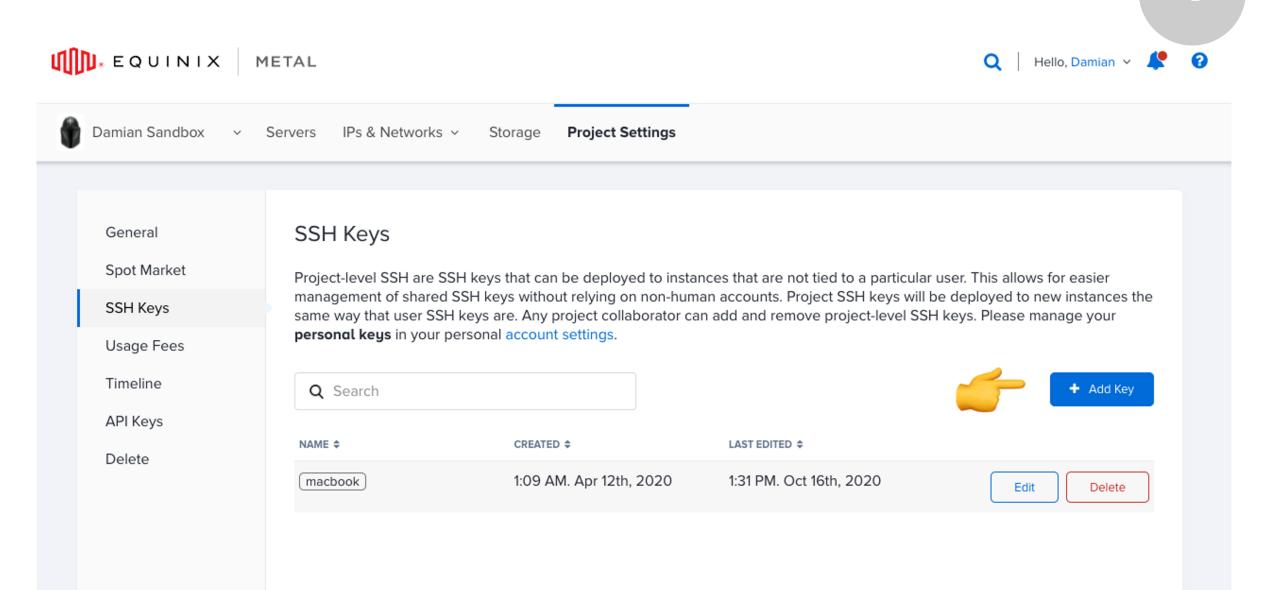
EQUINIX METAL

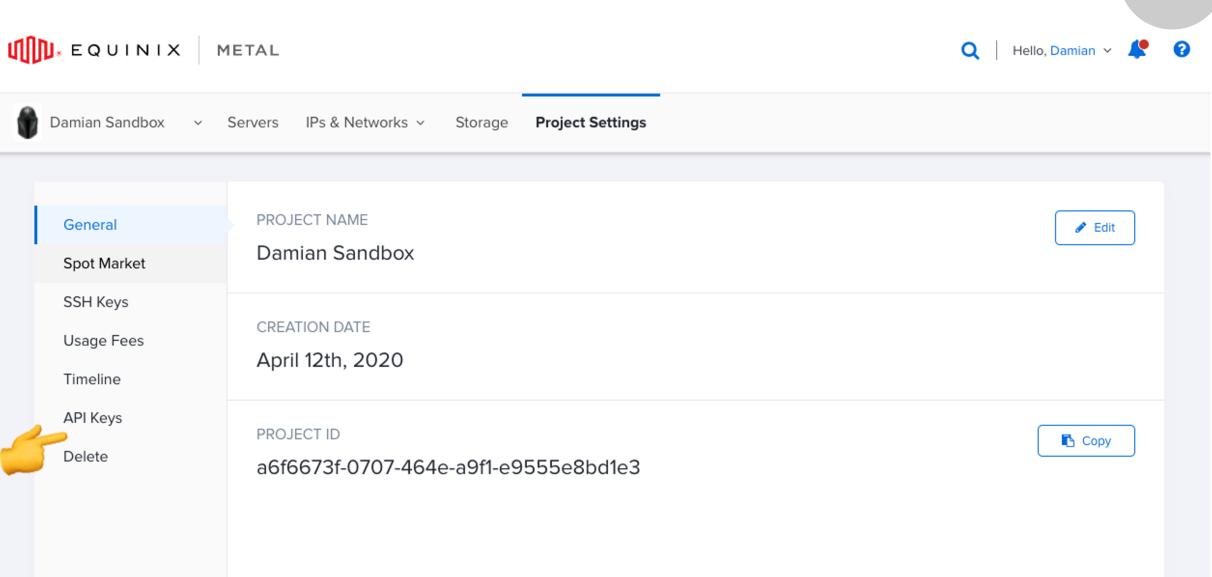
Damian Sandbox \sim Servers IPs & Networks ~ Storage Project Settings + New Server All Server Types Q Search... \mathbf{T} HOSTNAME \$ IPV4 ADDRESS TYPE OS \$ CONFIG 🖨 LOCATION \$ TAGS ACTION(S) \Box Q opshub.small.x86-01 On Demand EWR1 t1.small.x86 147.75.67.67 ... packet-bot.sjc1 Q c1.small.x86 139.178.89.135 On Demand SJC1 ... \Box slg-poc-nvidia-license-server x1.small.x86 On Demand ٠¢ DFW2 139.178.86.215 ---

Q

Hello, Damian ~





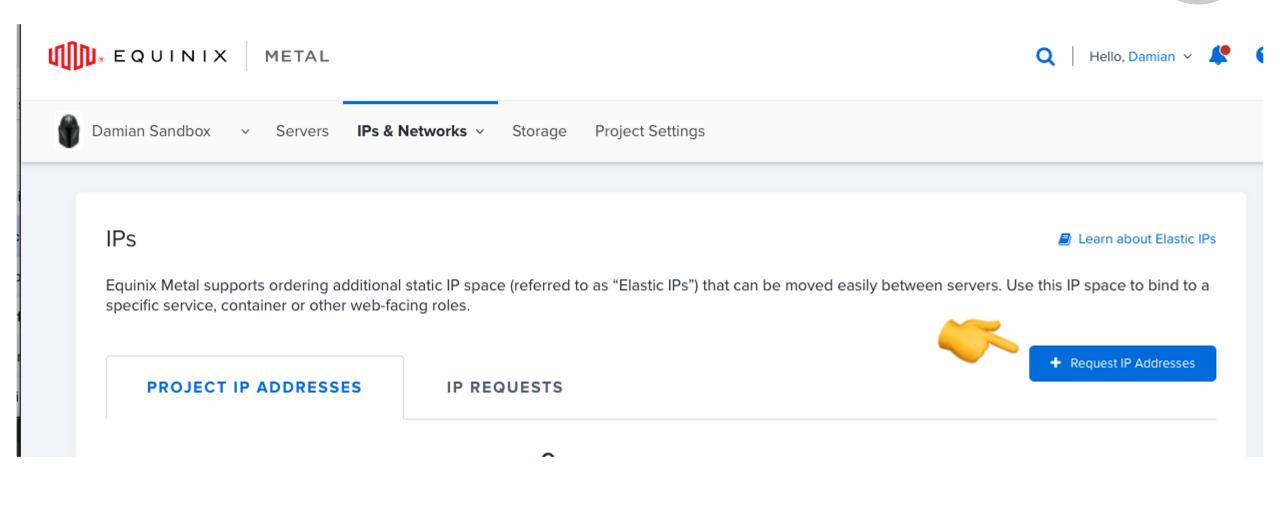


INIX EQUINIX N	METAL		🔍 Hello, Damian 🗸 🦊 😯
Damian Sandbox 🗸 🗸	Servers IPs & Networks ~ Storage	Project Settings	
General Spot Market SSH Keys Usage Fees Timeline API Keys Delete	API Keys NAME \$ TOKEN \$	PERMISSIONS \$	CREATED \$



MIN EQUINIX METAL Hello, Damian 🗸 🦺 🕜 Q Damian Sandbox \sim Servers IPs & Networks ~ Storage Project Settings IPs Q Search... + New Server All Server Types BGP -Layer 2 Backend Transfer \Box HOSTNAME \$ TYPE **IPV4 ADDRESS** OS \$ LOCATION \$ TAGS ACTION(S) Connections Q opshub.small.x86-01 \Box 147.75.67.67 On Demand EWR1 --t1.small.x86 Q packet-bot.sjc1 On Demand SJC1 \Box c1.small.x86 139.178.89.135 --slg-poc-nvidia-license-server -Q 139.178.86.215 On Demand DFW2 x1.small.x86 ...

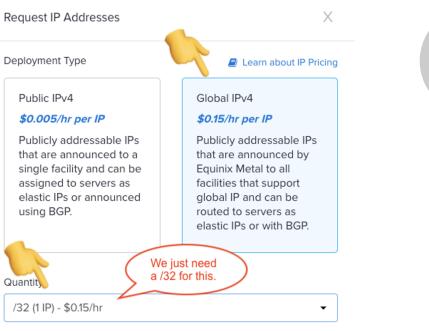




C

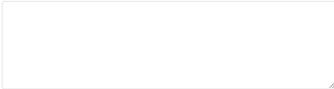
Request a /32 Global Anycast IP

nycast IP				Request IP Addres
Damian Sandbox v	Servers IPs & I	Networks ~ Storage Proj	act Cottings	Deployment Type
IPs	ordering additional	static IP space (referred to as "I	ect Settings Elastic IPs") that can I	Public IPv4 \$0.005/hr per II Publicly address that are annound single facility and assigned to serv elastic IPs or ann using BGP.
PROJECT IP A	DDRESSES	IP REQUESTS		Quantity
ADDRESS BLOCK TYPE \$	LOCATION \$	IP TYPE 🗢 🕜	IP BLOCK \$	/32 (1 IP) - \$0.15/h
Global IPv4	Global	Global	147.75.40.29/3	Description
Global IPv4	Global	Global	147.75.40.168/2	
Public IPv4	DFW2	Elastic	147.75.47.136/2	
Public IPv4	EWR1	Elastic	147.75.198.8/30	Comments Please provide a lis
Public IPv6	EWR1	Management	2604:1380:0:c	requiring of a uniqui information and we
Public IPv6	SJC1	Management	2604:1380:100	
Public IPv6	DFW2	Management	2604:1380:411	
Public IPv6	NY5	Management	2604:1380:450	
Public IPv6	AM6	Management	2604:1380:460	The charge will s Submit Request
Private IPv4	AM6	Management	10.12.9.0/25	- outsinchequest

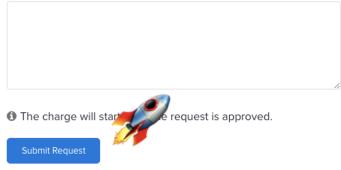


3

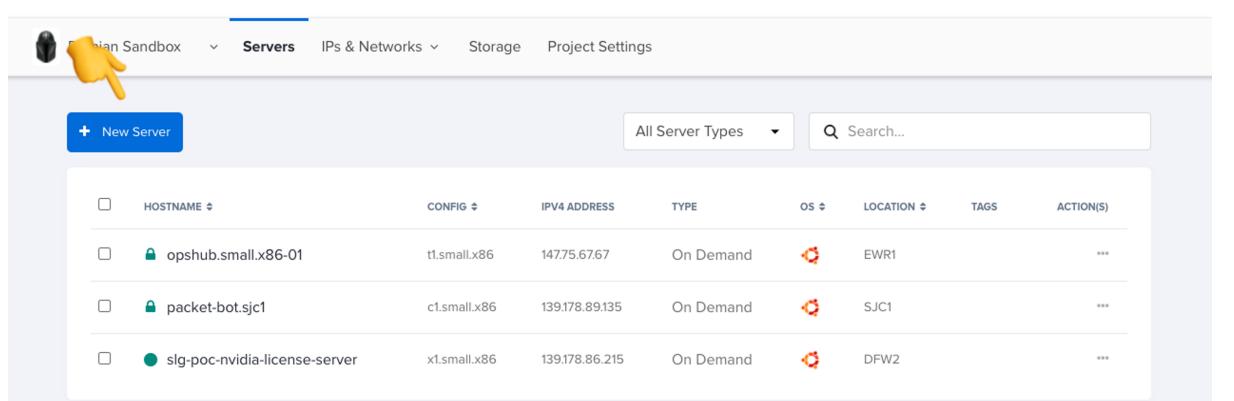
EQUINIX



Please provide a list of domain names, virtual hosts, or subnets, requiring of a unique IP address per. An engineer will verify your information and we will get back to you shortly.



MIN EQUINIX METAL

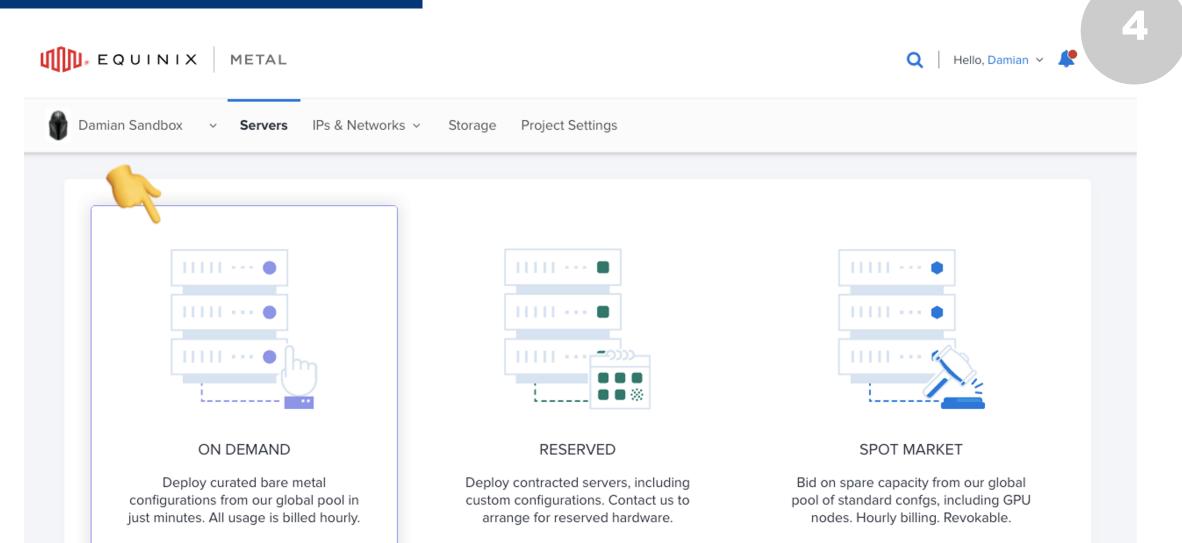


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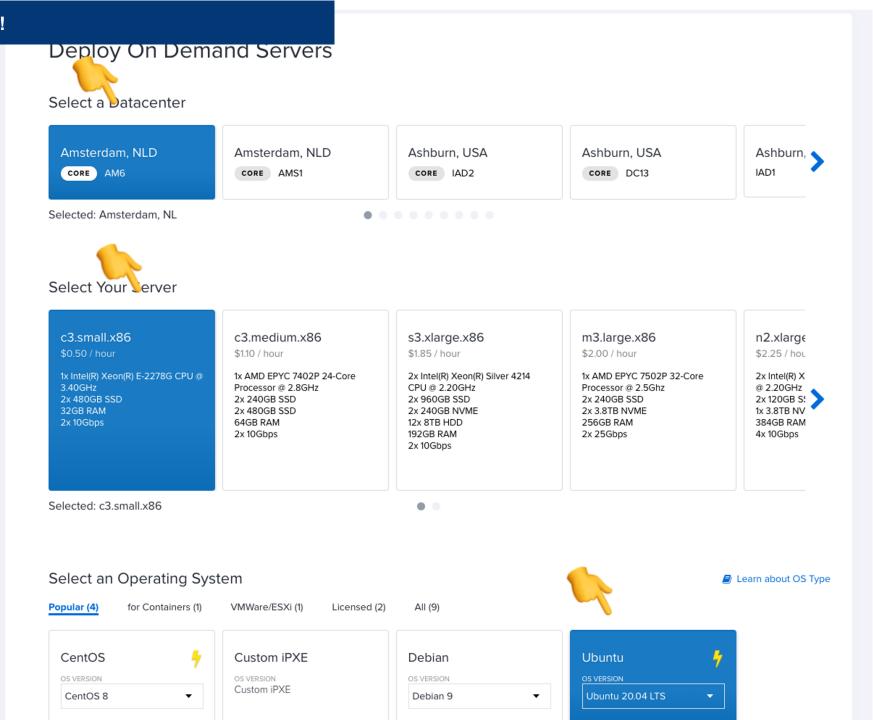
Q

Hello, Damian 🗸



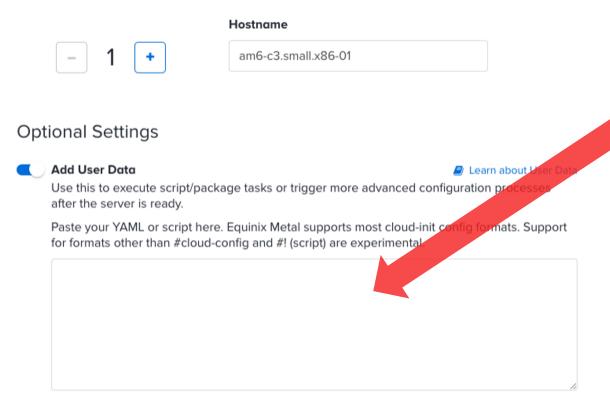








Select Number and Name Your Server(s)



Next slide has a neat script for you.

Configure IPs

Make changes to IP allocations. By default, Equinix Metal provides 1 public IPv4 and 1 public IPv6 address for free.

Copy this gist from GitHub and paste into User Data:

Configure Global Anycast IP on Equinix Metal Server

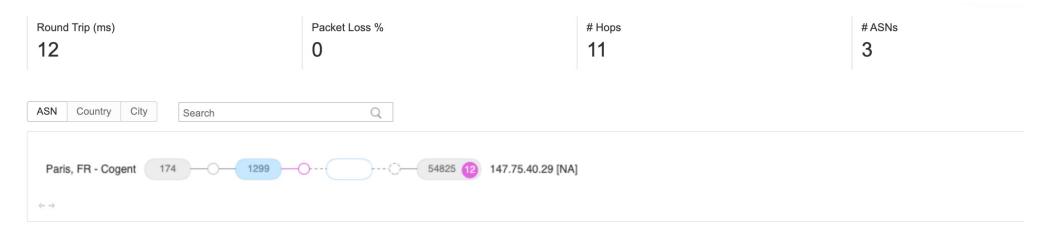
Make sure to update the auth_token, elastic_ip_cidr, & elastic_ip variables.



<u>You'll want to repeat for other locations</u> and you can automate further with tools like Terraform. https://registry.terraform.io/providers/packethost/packet/l atest/docs

Summary	
Datacenter	AM6 - Amsterdam, NL
Server	1 x c3.small.x86
DS	Ubuntu 20.04 LTS
Estimated Cost 🔞	\$0.50/hr
	Deploy Now
	(🤊 Su

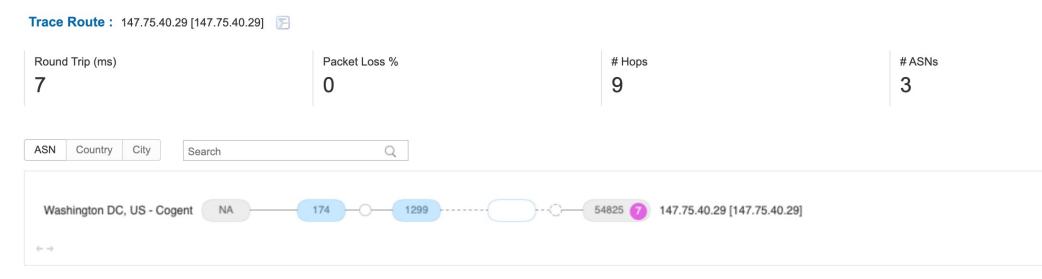
Request from Paris to 147.75.40.29 is going to AM6



Нор	Ping 1 (ms)	Ping 2 (ms)	Ping 3 (ms)	Average Time (ms)	Packet Loss	Address
1	1	< 1	< 1	< 1	0% (0/3)	130.117.62.97 [gi0-6-0-19.212.rcr21.par02.atlas.cogentco.com]
2	1	1	1	1	0% (0/3)	130.117.48.249 [be2415.ccr41.par01.atlas.cogentco.com]
3	1	1	1	1	0% (0/3)	213.155.141.226 [prs-b2-link.telia.net]
4	15	15	15	15	0% (0/3)	62.115.122.10 [prs-bb4-link.telia.net]
5	11	11	11	11	0% (0/3)	213.155.136.167 [adm-bb4-link.telia.net]
6	15	15	15	15	0% (0/3)	<u>62.115.137.65</u> [adm-b1-link.telia.net]
7	12	11	12	12	0% (0/3)	62.115.176.233 [packethost-ic-349744-adm-b1.c.telia.net]
8	*	*	*	*	100% (3/3)	NA
9	*	*	*	*	100% (3/3)	NA
10	*	*	*	*	100% (3/3)	NA
11	12	12	12	12	0% (0/20)	<u>147.75.40.29</u> [NA]



Request from Washington DC to 147.75.40.29 is going to DC13



Нор	Ping 1 (ms)	Ping 2 (ms)	Ping 3 (ms)	Average Time (ms)	Packet Loss	Address
1	< 1	< 1	< 1	< 1	0% (0/3)	<u>10.111.10.1</u> [10.111.10.1]
2	1	1	< 1	1	0% (0/3)	38.122.67.73 [gi0-2-1-18.216.rcr21.iad01.atlas.cogentco.com]
3	1	1	1	1	0% (0/3)	154.54.30.193 [be2956.ccr41.iad02.atlas.cogentco.com]
4	4	3	1	3	0% (0/3)	154.54.12.62 [telia.iad02.atlas.cogentco.com]
5	1	2	2	2	0% (0/3)	62.115.153.123 [packethost-svc073315-ic361184.c.telia.net]
6	*	*	*	*	100% (3/3)	NA
7	*	*	*	*	100% (3/3)	NA
8	*	*	*	*	100% (3/3)	NA
9	7	7	8	7	0% (0/20)	<u>147.75.40.29</u> [147.75.40.29]

Thank You