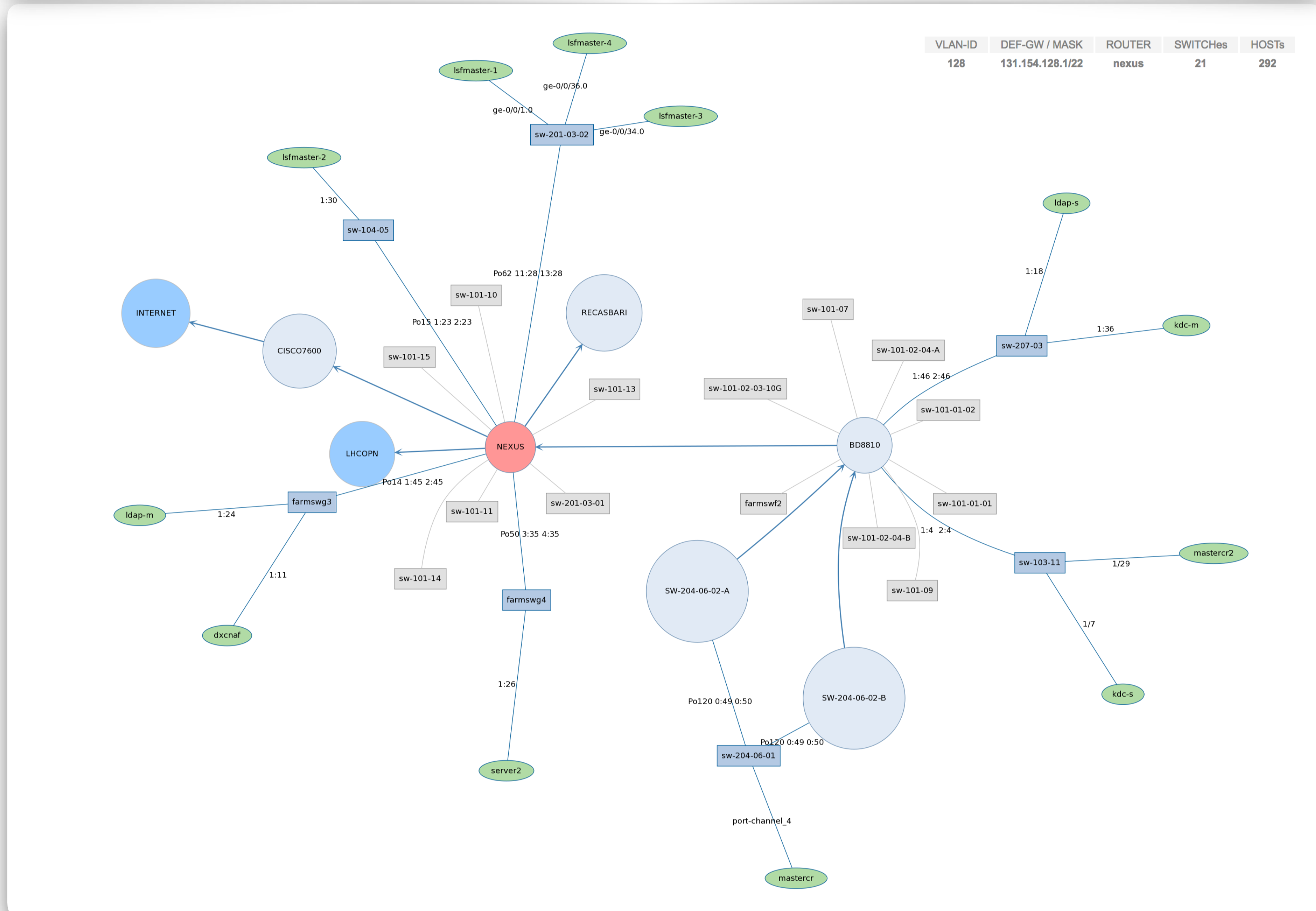# Netfinder

Real Time Network Discovery Tool

Netfinder is a **real-time network discovery** tool based on *SNMP standard MIBs*. Discovering all network attached devices and theirs interconnections, Netfinder improves the operational procedures of network engineers and system/cloud administrators. A web interface lets system administrators to do specific searches in real-time or access the database created during periodic discovery process. As a result, **Graphical Network Maps and tabular summaries** are created **on-the-fly**, visualizing exactly the object of the query, such as the entire *Network Map*, single or multiple *VLANs*, *Hosts Localization* and *Routing Map*. In fact, alongside Physical and Data Link informations, Netfinder is capable to detect which device acts as a *Router* for which *VLAN-ID/Network*.

Hosts Localization Map

VLAN-ID	DEF-GW / MASK	ROUTER	SWITCHes	HOSTs
128	131.154.128.1/22	nexus	21	292

VLAN Details

reload | print | close

| host \| mac | netmask, string, comma sep. list | vlan | 128,192 | ☐ real-time | ☑ ping | search |
| switch | part of name or comma sep. list | brand | vendor | ☐ real-time | ☐ ping | search |

VLAN-ID	ROUTER [1]	DEF-GW	HOSTs [1146]	SWITCHEs [39]
128	nexus	131.154.128.1/22	292	21
192	nexus	131.154.192.1/22		
		10.10.192.1/22	854	25

| SWITCHes: 39 | HOSTs: 1882 | VLANs: 45 | MAPs: L1 L3 | DB AGE: Mon Aug 22 17:08:34 2016 |

SWITCH	HOSTs	VLANs	UPLINKs: 37 10G + 48 1G	Bandwidth: 418 Gbit/s	CORE
farmswf2	71	4	ge.1.1,ge.1.2		bd8810 [1:15 2:15]
farmswg3	49	11	1:45,1:46		nexus [Po14 1:45 2:45]
farmswg4	115	33	1:49,1:50		nexus [Po50 3:35 4:35]
nexus	201	5	7:23,7:24,16:23,16:24	40	lhcopn [xe-0/0/0 xe-0/1/0 xe-0/0/1 xe-0/1/1]
sw-101-01-01	17	1	49,50	20	bd8810 [9:3 10:3]
sw-101-01-02	18	1	49,50	20	bd8810 [3:1 4:1]
sw-101-02-03-10G	12	1	1/xg18		bd8810 [4:2]
sw-101-02-04-A	10	1	Gi0/21,Gi0/22,Gi0/23,Gi0/24	4	bd8810 [1:36 2:36 1:37 2:37]
sw-101-02-04-B	3	1	Gi0/21,Gi0/22,Gi0/23,Gi0/24	4	bd8810 [1:32 2:32 1:33 2:33]
sw-101-07	15	2	Te1/49,Te1/50	20	bd8810 [9:2 10:2]
sw-101-09	9	3	45,46,47,48	4	bd8810 [1:1 1:2 2:1 2:2]
sw-101-10	5	3	1,2,3,4	4	nexus [Po47 3:25 1:26 4:25 2:26]
sw-101-11	11	3	1,2,3,4	4	nexus [Po4 3:25 3:26 4:25 4:26]
sw-101-13	14	5	45,46	2	bd8810 [Po48 3:27 4:27]
sw-101-14	39	3	Te1/49,Te1/50	2	nexus [Po20 1:24 2:24]
sw-101-15	30	3	Te1/49,Te1/50	2	nexus [Po22 3:3 4:3]
sw-103-11	12	5	1,2	2	bd8810 [1:4 2:4]
sw-104-05	25	4	47,48	2	nexus [Po15 1:23 2:23]
sw-200-08-01	63	1	1/2/1,1/2/2	20	nexus [Po76 5:7 6:7]
sw-200-08-02	54	1	1/2/1,1/2/2	20	nexus [Po77 5:8 6:8]
sw-200-11-05	165	2	45,46	2	nexus [Po89 3:11 4:11]
sw-201-03-01	42	2	xe-0/1/0,xe-0/1/2	2	nexus [Po61 11:27 13:27]
sw-201-03-02	54	3	xe-0/1/0,xe-0/1/2	2	nexus [Po61 11:28 13:28]
sw-201-04-01	64	1	1/2/1,1/2/2	20	nexus [Po70 5:1 6:1]
sw-201-04-02	56	1	1/2/1,1/2/2	20	nexus [Po71 5:2 6:2]
sw-207-07-01	64	1	1/2/1,1/2/2	20	nexus [Po72 5:3 6:3]
sw-207-07-02	56	1	1/2/1,1/2/2	20	nexus [Po73 5:4 6:4]
sw-207-08-01	56	1	1/2/1,1/2/2	20	nexus [Po74 5:5 6:5]
sw-204-01-01	47	4	Gi0/21,Gi0/23	2	nexus [Po36 3:5 4:5]
sw-204-01-02	53	2	Gi0/21,Gi0/23	2	nexus [Po37 3:7 4:7]
sw-204-06-01	7	2	49,50,51,52	4	nexus [Po3 1:3 1:4 2:3 2:4]
sw-204-06-01	136	10	1/50,1/51	20	sw-204-06-2-B [Po120 0:49 0:50]

Hosts Localization

reload | print | close

| host \| mac | devel-ciaschini | vlan | ID or direct | ☑ real-time | ☐ ping | search |
| switch | port of name or comma sep. list | brand | vendor | ☐ real-time | ☐ ping | search |

MAC	0:16:3e:9:bc:87
IP	131.154.101.8 ▲
HOSTNAME	**devel-ciaschini**
VLAN-ID	101
NETWORK	131.154.101.253/24
ROUTER	vdx-sdds
SWITCH	sw-207-01-01
INTERFACE	Po1
ROOM	TIER-1

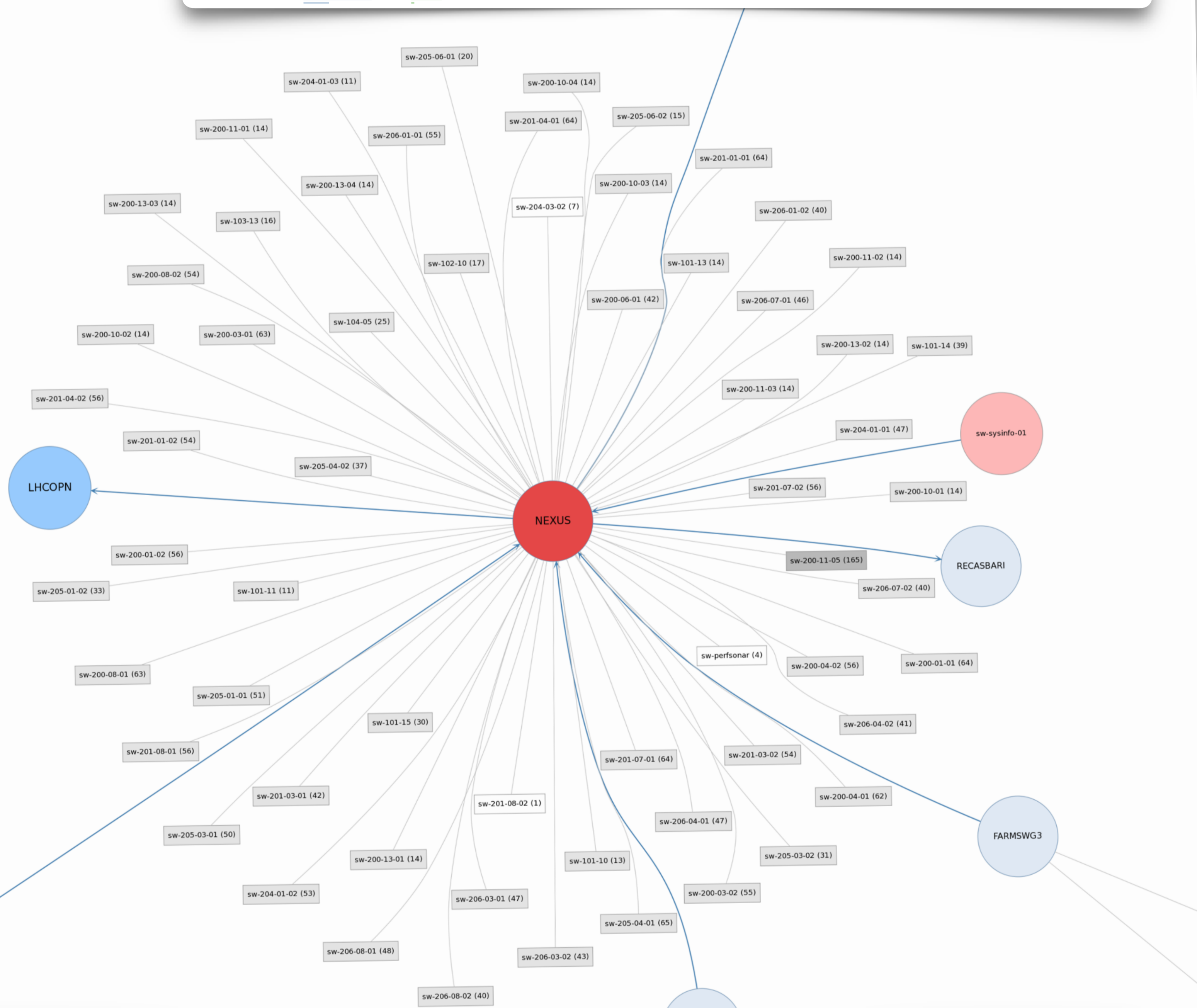| New Record | sw-207-01-01 0:16:3e:9:bc:87 Po1 131.154.101.8 devel-ciaschini 101 |
| Last Record 2016 Apr 18 | sw-207-01-01 0:16:3e:9:bc:87 Po9 131.154.101.8 devel-ciaschini 101 |

HISTORY

From	To	SWITCH	MAC	PORT	IP	NAME	VLAN
2016 Apr 05	2016 Aug 22	sw-207-01-01	0:16:3e:9:bc:87	Po8	131.154.101.8	devel-ciaschini	101
2016 Feb 15	2016 Apr 05	sw-207-01-01	0:16:3e:9:bc:87	Po5	131.154.101.8	devel-ciaschini	101
2015 Dec 16	2016 Feb 15	sw-207-01-01	0:16:3e:9:bc:87	Po7	131.154.101.8	devel-ciaschini	101
2015 May 08	2015 Dec 16	sw-207-01-01	0:16:3e:9:bc:87	Po3	131.154.101.8	devel-ciaschini	101

LAST NEIGHBORs: 5

From	To	SWITCH	MAC	PORT	IP	NAME	VLAN
2016 Apr 18	Up to Now	sw-207-01-01	0:16:3e:8:2:41	Po1	131.154.101.224	wms021	101
		sw-207-01-01	0:16:3e:8:2:54	Po1	131.154.101.65	guse	101
		sw-207-01-01	0:16:3e:9:ab:a	Po1	131.154.101.36	cnprov-es01	101
		sw-207-01-01	0:16:3e:9:bc:79	Po1	131.154.101.127	cnlog-esmas01	101
		sw-207-01-01	0:25:90:81:54:30	Po1	131.154.101.66	ovirt-01	101

© Donato De Girolamo

VLAN/Network Routing Table

VLAN-ID: 87	SWITCHes: 118		HOSTs: 4344		ROUTER: 5	DEF-GW	NETMASK	NETWORK	BROADCAST	HOST N.	CIDR
2	7		37		cisco7600	131.154.1.9	255.255.255.0	131.154.1.0/24	131.154.1.255	254	1C
3	4		5		cisco7600	131.154.2.55	255.255.255.0	131.154.2.0/24	131.154.2.255	254	1C
						172.16.1.1	255.255.255.0	172.16.1.0/24	172.16.1.255	254	1C
4	10		96		cisco7600	172.16.10.1	255.255.254.0	172.16.10.0/23	172.16.11.255	510	2C
						131.154.3.57	255.255.255.0	131.154.3.0/24	131.154.3.255	254	1C
128	21		292		nexus	131.154.128.1	255.255.252.0	131.154.128.0/22	131.154.131.255	1022	4C
192	25		854		nexus	131.154.192.1	255.255.252.0	131.154.192.0/22	131.154.195.255	1022	4C
						10.10.192.1	255.255.252.0	10.10.192.0/22	10.10.195.255	1022	4C
196	13		167		nexus	131.154.196.1	255.255.252.0	131.154.196.0/22	131.154.199.255	1022	4C
200	23		1048		nexus	10.10.200.1	255.255.248.0	10.10.200.0/21	10.10.207.255	2046	8C
						131.154.200.1	255.255.248.0	131.154.200.0/21	131.154.207.255	2046	8C