

Configuring DNS Reporting

Forward DNS Lookups

Now a device on your network with an IPv4 address and hostname can report its related IPv6 address to Lumeta (and vice versa). Two devices sharing the same name—one of them with an IPv4 address and the other with IPv6—can both be reported out by Lumeta. You can use the checkboxes to specify which related hosts you want to retrieve (i.e., all related, IPv4-related, IPv6-related, or none). This enables Lumeta to discover and profile more IPv6 hosts.

To support this host acquisition capability, we've added a new option to the Settings > Zones > DNS tab. This "Use host names to find related IP addresses" checkbox will enable you to target a host whose name is associated with multiple IPv4 and IPv6 records and use the discovered host name to retrieve any IPv4 or IPv6 addresses associated with that name.

If, for example, you were to target the zone collector to 172.18.1.1 and choose "find related" in the DNS configuration, shown below, and use internal DNS server 172.16.53.5, the zone would find not only 172.18.1.1 but also 2600:802:460:425::1 and 172.18.1.254.

Enable DNS Labeling: ☒

Use System DNS Server: ☐

Internal DNS Servers:

172.16.53.5

Use host names to find related IP addresses:

IPv4: ☒

IPv6: ☒

Update

Broadcast	OSPF	BGP	DNS	Discovery Spaces	SN	Host	Port
Add ▾				Delete	Upload	Download	
IP/CIDR				Type		Target List	
10.9.0.1/32				IPV4		Avoid List	
172.18.1.1/32				IPV4		Stop List	

Results as shown in the DNS and Routing Indices dashboard. Notice that the new feature reports IPv6 addresses in addition to the related IPv4 addresses.

DNS Summary



DNS Details

<input type="checkbox"/> IP Address ⓘ	DNS Name	active	zonename
<input type="checkbox"/> 172.18.1.1	aardvark.test.lumeta.com	true	LUM-980 DNS
<input type="checkbox"/> 172.18.1.254	aardvark.test.lumeta.com	true	LUM-980 DNS
<input type="checkbox"/> 2600:802:460:425::1	aardvark.test.lumeta.com	true	LUM-980 DNS

Results as shown in the *All Devices* report:

<input type="checkbox"/> ip	mac	identity	DNS name	active	os	devicetype	First Observed ⓘ	model	version	snmpresponder	snmpaccessall
<input type="checkbox"/> 172.16.55.208		collector:local:eth1		false			04/26/2020 06:49:05 AM			false	false
<input type="checkbox"/> 172.18.1.254			aardvark.test.lumeta.com	true			04/26/2020 06:54:08 AM			false	false
<input type="checkbox"/> 2600:802:460:425::1			aardvark.test.lumeta.com	true			04/26/2020 06:54:08 AM			false	false
<input type="checkbox"/> 172.16.55.1				true			04/26/2020 07:36:55 AM			false	false
<input type="checkbox"/> 172.18.1.1			aardvark.test.lumeta.com	true			04/26/2020 06:49:06 AM			false	false
<input type="checkbox"/> 10.9.0.1				true			04/26/2020 06:49:06 AM			false	false

To control the "Use host name to find related IP addresses" checkbox from your Lumeta Command Center CLI, use the commands:

TO ...	RUN the CLI command ...	EXAMPLE
Find related IPs (check the box)	collector dns <i>collectorname</i> forwardqueries { true false }	collector dns LUM-980 DNS forwardqueries true
Return to default (clear the box)		collector dns LUM-980 DNS forwardqueries false
Show configuration status	collector list name <i>collectorname</i> [dns]	collector list name LUM-980 DNS 172.16.53.5