



Cisco ACI API

여러 APIC IP 추적

#EPL #vMotion



Cisco ACI API

IP Tracking w/

EP Tracker

YAME! ACI API series

100) Introduction – API inspector

110) Introduction – ACI toolkit, cobra

120) APIC CPU Utilization

130) Endpoint Tracker

140) APIC Port Binding

150) APIC vPC Binding

160) MSO Port Binding

170) Log

DEMO 1 : INPUT endpoint and Click Search

End Point Search

1

Search

DEMO 2 : result and select of Endpoint Location

End Point Search

1

10.193.101.2

Search

2

Learned At	Tenant	Application	EPG	IP
Pod:1, Leaf:101, Port Channel:Heroes_FI-2B (learned)	Heroes	Save_The_Planet	app	10.193.101.2
Pod:1, Leaf:101, Port Channel:Heroes_FI-2B (learned)	Heroes	Save_The_Planet	db	10.193.101.2
Pod:1, Leaf:101, Port	Heroes	Save_The_Planet	web	10.193.101.2

Interface

Encap

DEMO 3 : Endpoint Final Result

End Point Search

1

10.193.101.2

Search

2

Learned At	Tenant	Application	EPG	IP
Pod:1, Leaf:101, Port Channel:Heroes_FI-2B (learned)	Heroes	Save_The_Planet	app	10.193.101.2
Pod:1, Leaf:101, Port Channel:Heroes_FI-2B (learned)	Heroes	Save_The_Planet	db	10.193.101.2
Pod:1, Leaf:101, Port	Heroes	Save_The_Planet	web	10.193.101.2

3

						Interface	Encap
2023/09/23 06:58:37	2222::65:2	43:CD:BB:C0:00:00	Heroes/Save_The_Plan...	attached	Pod-1/Node-101	Heroes_FI-2B	vlan-201
2023/09/23 06:58:37	10.193.101.2	43:CD:BB:C0:00:00	Heroes/Save_The_Plan...	attached	Pod-1/Node-101	Heroes_FI-2B	vlan-201

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Objects Per Page: 15

Displaying Objects 1 - 2 Of 2

APIC EPL is nice.

But, if there are many APICs ?

(Multi-Site ???)

APIC EPL (End Point Tracker) API

API inspector was used.

1) Get the locations:

GET [https://10.10.20.14/api/node/class/fvCEp.json?rsp-subtree=full&rsp-subtree-include=required&rsp-subtree-filter=eq\(fvlp.addr,"10.193.101.2"\)](https://10.10.20.14/api/node/class/fvCEp.json?rsp-subtree=full&rsp-subtree-include=required&rsp-subtree-filter=eq(fvlp.addr,\)

2) Get the detail from each location :

GET : "dn": "uni/tn-Heroes/ap-Save_The_Planet/epg-app/cep-43:CD:BB:C0:00:00"

3) Print the details

url = "https://" + host + "/mqapi2/troubleshoot.eptracker.json?ep=" + DN

Sinlge APIC EPL (End Point Tracker) API : Flow #131.py

z100credential.py
host, id, password

z110LoginToken.py
Get the token

Host IP [default 10.193.101.2] ?

Get the location information

Get the DN and save as the list

Get the details and Print only IPv4
(not IPv6)

Multi APICs EPL (End Point Tracker) API : Flow #136.py

Read host information line from file
<z120_APIC_info>

z110LoginToken.py
Get the token

Host IP [default 10.193.101.2] ?

Get the location information

Get the DN and save as the list

Get the details

Remove the duplication and Sort

Print