

If you've ever had to trace the actual path a packet takes it can be tedious. There are some great commercial tools out there that can visually show you the path, but now there is a free tool, APIC-EM. It shows layer 2 and layer 3 ingress and egress ports. You can also view performance statistics and QoS information.

The screenshot displays the Cisco APIC-EM Path Trace interface. At the top, the breadcrumb navigation shows "APIC - Enterprise Module / Path Trace". Below this, there are controls for "Filters", "Start new Path Trace", and "Hosts: 192.168.120.1 → 192.168.6.40". A status bar indicates "Trace Successful".

The main visualization is a path diagram showing the following sequence of hops:

- Source:** 192.168.120.1 (Router icon)
- Router 1:** 192.168.252.1 (Switches and Hubs icon)
- Router 2:** 192.168.120.6 (Router icon)
- DMVPN Tunnel:** Represented by a cloud icon.
- Router 3:** 192.168.251.12 (Router icon)
- Router 4:** 192.168.0.250 (Switches and Hubs icon)
- Destination:** 192.168.6.40 (Destination icon)

Transitions between hops are labeled: "EIGRP" for the first three hops, "DMVPN Tunnel" for the transition through the cloud, and "Switched" for the final hop to the destination.

Below the path diagram is a legend listing the devices and their interfaces:

- 192.168.120.1** (Router icon): **RP-UCM1-1201.resprod.com** (Routers) | Egress Interface: GigabitEthernet0/0
- 192.168.252.1** (Switches and Hubs icon): **RP-UCM-2521.resprod.com** (Switches and Hubs) | Ingress Interface: GigabitEthernet1/0/46 | Egress Interface: GigabitEthernet2/0/2
- 192.168.120.6** (Router icon): **RP-UCM-WPL3.resprod.com** (Routers) | Tunnels: DMVPN Tunnel | Ingress Interface: GigabitEthernet0/0/1 | Egress Interface: GigabitEthernet0/0/0 [Tunnel20]
- 192.168.251.12** (Router icon): **UNKNOWN** (UNKNOWN) | Tunnels: DMVPN Tunnel
- 192.168.0.250** (Switches and Hubs icon): **RP-UCM-0250.resprod.com** (Switches and Hubs) | Ingress Interface: GigabitEthernet2/1 | Egress Interface: GigabitEthernet2/22 [Vlan106]
- 192.168.6.40** (Destination icon): **rp-ucm1.resprod.com** (wired)