Aviatrix Multi-Cloud FlightPath – Accelerate Cloud Network Troubleshooting to Minimize Network Downtime

Multi-cloud FlightPath is an integral part of a suite of visibility and operational capabilities of the Multi Cloud Network Architecture that Aviatrix offers. The tool allows CloudOps and Cloud Network Engineering teams to troubleshoot cloud network connectivity issues faster to minimize business disruption.

KEY BENEFITS

Instead of tedious 'whack-a-mole' efforts to track down the source of connectivity problems across many screens, the Aviatrix Multi-Cloud FlightPath generates the needed network data quickly and automatically and delivers following benefits:

- Automate collection of cloud network data displayed in a single view for faster troubleshooting
- Easily determine and communicate the root problem to other internal groups for quick resolution
- Minimize the impact of cloud network downtime on the business
- Troubleshoot cloud network connectivity problems faster
- Quickly and easily find the source of connectivity issues between cloud network instances/end points

In traditional networking, there are certain tools the operations engineer relies upon for troubleshooting. These include Ping, Traceroute, packet capture, checking route tables, and ACLs along the way to verify connectivity between endpoints. In the cloud network, the native constructs offered by the cloud providers change the rules, and with limited visibility, troubleshooting becomes more complex and time consuming. This is true within a single cloud provider's environment, but even more so across multiple cloud providers. Cloud Ops and network engineering teams need to take control and make cloud smart operational decisions.

Aviatrix Multi-Cloud Networking Platform enables those teams to save time with daily cloud networking trouble tickets through it's FlightPath capability. Regardless of which cloud or clouds your deployment is in, Multi-cloud FlightPath can dramatically reduce troubleshooting time with a few simple clicks from the Aviatrix controller.

HOW IT WORKS?



Deployment scenario with AWS and Azure region:



Typically, in order for you to troubleshoot the connectivity between a Host B and Host C, 20+ data points are needed, and it can be a tedious process to do manually.

With FlightPath, the AVX controller already has the awareness of all deployed elements across regions, across clouds, and across accounts, including all the necessary information from native constructs, such as Route Tables, Security Groups, NACLs, transit route tables, etc.

Troubleshooting a real problem in the above scenario:

Ping from host (10.2.146.109) in AWS us-east-1 region VPC2, is not working to host (10.30.16.4) in an Azure Central US region VNET.

Step 1: Log into the Aviatrix controller and
select the "Troubleshoot" node from the left
menu. Then select "FlightPath".

Step 2: Select the cloud (AWS, AWS Gov, GCP or Azure) for both Source and Destination; Choose the Account Names; Select the Regions; Choose the VPC or VNETs; Then click on "Query Resources". Query Resources will bring up all of the resources in the VPN/VNET including their IP addresses.



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5 packets transmitted, 0 received, 100% packet loss, time 4102ms		
[ec2-user@ip-10-2-146-109 ~]\$ ping 10.30.16.4		
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10.30.16.4 ping statistics		
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TCP



TECH NOTE

Step 3: Select the hosts to test to/from. In this case, Host B = 10.2.146.109; Host C = 10.30.16.4. Choose whether this is going over the public or private interface, and port and protocol.

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Step 4: Click on FlightPath Test!

Within seconds, a full analysis report is generated based on this IP/protocol/port between source and destination. It checks on both inbound and outbound Security Groups, Native VPC/VNET Route Tables, gateway route tables and Network ACLs.

Dashboard	FUGHTPATH REPORT								
Onboarding		Source				Destinat	ion		
Accounts	Instance:				Instance: A boatture as Edge MNET 60/028				
Gateway	Public IP: 16.207.219.212 Private IP: 10.2.146.109				Public IP: 13.89.190.29 Private IP: 10.30.16.4				
TGW Orchestral	Security Groups: 🖌 Pass				Security Groups: 🖌 Pass				
Transit Network	Group Name: launch-wizard-5 (sg-09927#5aa87dd962)				Group Name: A2host1rsg113:rg-av-Edge-VNE1	T-600228 (AZhost1rsg113zg-av-1	Edge-VNET-600228)		
Firewall Network	Type Protocol Port Range Source D	lescription			Inbound Rules Type Protocol Port Range Sc	iource Description			
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Step 5: Now, in just a couple of clicks, the problem has already been pin-pointed. All we need to do is fix the rule in the NACL in AWS:

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VPC Dashboard Filter by VPC:	Create network	ACL Actions *						÷	¢ 0
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Virtual Private Cloud	Name	Network ACL ID	Associated with	Default	- VPC		Owner	*	
Your VPCs		acl-07b56a790d98	12 Subnets	Yes	vpc-0122ec	:5688125c0cb VPC2	653464892324		
Subnets		acl-0a8e802d63c2	10 Subnets	Yes	vpc-030708	b3cb53644922 Edge-VPC	653464892324		
Route Tables		acl-0d728787df23	12 Subnets	Yes	vpc-009e9d	34df98253d33 VPC1	653464892324		
Internet Gateways									
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DHCP Options Sets									
Elastic IPs	Edit outbou	nd rules							
Endpoints								Remove the rule blocking ICMP	
Endpoint Services		View	All rules	•					
NAT Gateways	Rule #	Туре	Protocol		Port Range	Destination	Allow / De	ny	
Peering Connections	90	All ICMP - IPv4	ICMP (1)		ALL	0.0.0/0	DENY		
Security	100	ALL Traffic	ALL		ALL	0.0.0/0	ALLOW		
Network ACLs	•	ALL Traffic	ALL		ALL	0.0.0/0	DENY		
🗨 Feedback 🔇 English	(US)				© 2008 - 2020, Am	azon Web Services, Inc. or its affiliate	s. All rights reserved.	Privacy Policy Terms	of Use



Step 6: Check FlightPath again after fixing the outbound Network ACL.



Check Ping again.

a [®] ec2-user@ip-10-2-146-109:~		×
ec2-user@ip-10-2-146-109 ~]\$		^
ec2-user@ip-10-2-146-109 ~]\$ ping 10.30.16.4		
ING 10.30.16.4 (10.30.16.4) 56(84) bytes of data.		
10.30.16.4 ping statistics		
packets transmitted, 0 received, 100% packet loss, time 8188ms		
ec2-user@ip-10-2-146-109 ~]\$		
ec2-user@ip-10-2-146-109 ~]\$ ping 10.30.16.4		
ING 10.30.16.4 (10.30.16.4) 56(84) bytes of data.		
4 bytes from 10.30.16.4: icmp_seq=1 ttl=61 time=32.7 ms		
4 bytes from 10.30.16.4: icmp_seq=2 ttl=61 time=32.6 ms		
4 bytes from 10.30.16.4: icmp_seq=3 ttl=61 time=32.6 ms		
4 bytes from 10.30.16.4: icmp_seq=4 ttl=61 time=32.8 ms		
4 bytes from 10.30.16.4: icmp_seq=5 ttl=61 time=33.0 ms		
C		
10.30.16.4 ping statistics		
packets transmitted, 5 received, 0% packet loss, time 4008ms		
tt min/avg/max/mdev = 32.681/32.816/33.058/0.241 ms		

CONCLUSION

Troubleshooting in a multi-cloud network can be complex and there are many data points to consider with native cloud constructs. Cloud infrastructure is dynamic, and every new instance involves security groups, access lists, and route tables. This can lead to a lengthy troubleshooting through a manual and tedious process, even for a cloud veteran.

With Aviatrix Multi-Cloud FlightPath, all the guesswork and manual steps are eliminated with a simple automated GUI workflow. By automating the collection of cloud network troubleshooting data and displaying it in a single view, FlightPath eliminates the time, frustration and human errors required to find the source of connectivity issues that are reported as problems. It also makes it easy to communicate the source of the problem, and the required fix, to other internal groups so they can take appropriate actions.

For more details, check out docs.aviatrix.com or connect with our technical solution engineer through aviatrix.com online chat.