

AVIATRIX

Multi-Cloud Network Platform



Federal Solution Overview

ABOUT AVIATRIX



**One Architecture.
Your Network.
Any Government Cloud.**

Aviatrix is a multi-cloud network platform built to meet the stringent requirements of the US Federal government. We are available in the AWS, Azure, and Google GovCloud marketplaces as well as ICMP for those serving the US Intelligence Community.



When the rubber meets the road, my team is accountable and it's our network.

How does your agency build repeatable virtual private networks in the cloud?
How do you overcome the performance bottlenecks of encryption in the cloud?
How do you manage account and VPC sprawl?
How does your agency troubleshoot with full visibility in the cloud when an application isn't performing?

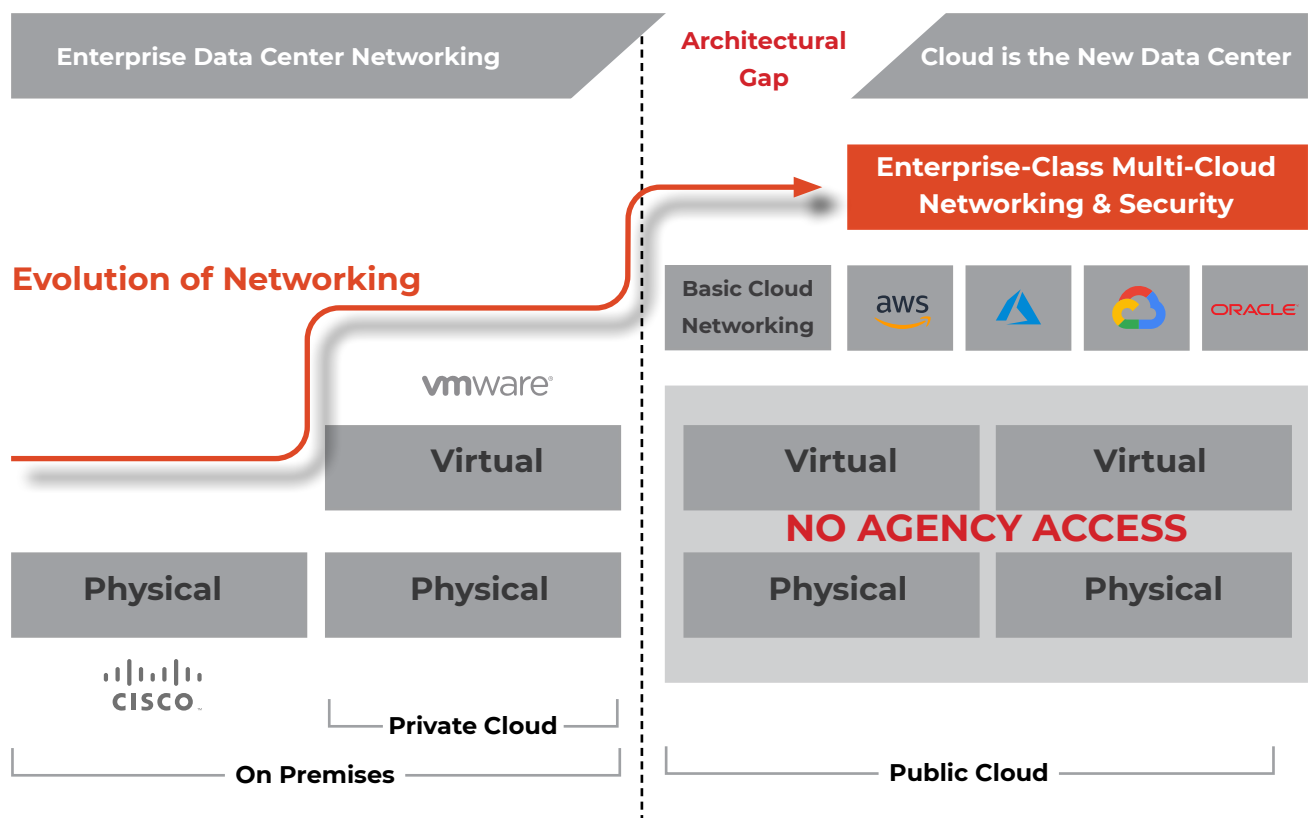
Aviatrix is simple to deploy; our intelligent central controller is launched from cloud provider marketplaces and automates the deployment of additional network and security services, as required. Most customers launch and begin using Aviatrix services in an afternoon, easy to try and evaluate.

The Aviatrix Federal team also has experts available to assist.

Challenges of the Cloud

NETWORKING HAS EVOLVED.

Initially network teams managed physical assets on-prem. These assets, primarily delivered by Cisco gave rise to a wave of Cisco certified professionals. The era of server virtualization matured to eventually virtualize the network, with VMware NSX. This was a second wave of evolution which saw VMware certifications come to the forefront. However, cloud adoption has abstracted much of the networking components required to properly troubleshoot and audit a cloud infrastructure. The move to multi-cloud means skills obtained and sharpened for one cloud provider have little value in another cloud. These are the problems Aviatrix is solving for agencies today.



How do you benefit from the agility of the cloud while ensuring security best practices are followed?

How do you ensure interoperability across Government clouds for true resiliency, advantageous economics, and maximum capability?

When your team has to troubleshoot cloud performance, do they have the visibility and tools they need to properly identify the root cause?



MULTI-CLOUD NETWORK PLATFORM

TECHNICAL OVERVIEW

Agencies are turning to public clouds for business transformation. In doing so they face new networking challenges such as manual and unintelligent routing, native limitations, and lack of visibility. Whether your agency uses a single cloud or multiple clouds, Aviatrix delivers solutions to simplify your journey to the cloud.

The Aviatrix platform contains two primary networking components, both of which are available in the cloud marketplaces. Together, these two components deliver the enterprise-class visibility, networking and security services, and service insertion required to properly support the mission.



AVIATRIX CONTROLLER

The central brain of your multi-cloud network platform, the Controller automates deployment and configuration of gateways & route propagation.

The platform leverages the centralized intelligence and knowledge of the controller to dynamically program both native cloud network constructs and advanced services from Aviatrix. Our single Terraform provider enables network and security infrastructure-as-code automation across your multi-cloud environment.



AVIATRIX COPILOT

CoPilot provides a global operational view of your multi-cloud network, a capability not available from AWS, Azure, or any other cloud provider.

Aviatrix extracts detailed network traffic flow data, to include per flow throughput, from Aviatrix transit infrastructure including source, destination, port, protocol, and latency to deliver never before possible multi-cloud flow inspection and global traffic heat maps. You can also extract PCAP data and ingest into familiar tools such as WireShark.

AVIATRIX

DIFFERENTIATORS



MULTI-CLOUD INTEROP

Design your cloud network once; stamp repeatable designs across all public clouds.

BORN IN THE CLOUD

Cloud first; not an on-prem solution trying to understand the complexities of cloud.

ENTERPRISE SCALE

Designed to handle the largest government environments to fully support your mission.

GOVERNMENT- GRADE SECURITY

Available in all govcloud marketplaces, to include ICMP. Also FIPS 140-2 certified.



Most organizations adopt a multi-cloud strategy out of a desire to avoid vendor lock-in or to take advantage of best-of-breed solutions. We expect that most large organizations will continue to willfully pursue this approach. - Michael Warrilow, VP Analyst, Gartner



SECURING THE CLOUD

SECURITY AS A CORE TENET

The following are some of the notable security capabilities and achievements of the Aviatrix multi-cloud network platform.

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Provides 60 times more IPSec throughput than standard cloud encryption; distributes IPSec encryption processing across multiple cores with up to 75 Gbps IPSec throughput.

Integration with AWS Control Tower to manage multi-account environments and the underlying cloud network architecture.

FIPS 140-2 certified.

Available as part of a FedRamp solution through AWS and Azure GovCloud marketplaces.

Available in C2S to support the US Intelligence Community.

Meet NIST CSF and ISO 27002 standards.

SOC2 Type 2.

Aviatrix | Solve Challenges This Week

The Aviatrix Federal Cloud Team can assist in standing up the following solutions today. Long procurement times can be avoided by utilizing the marketplaces of the respective cloud providers so together we can focus on solving problems and supporting the mission **at the speed of cloud.**



FQDN-BASED EGRESS FILTERING

Stop playing wack-a-mole with your cloud-based traffic. We can discover traffic, apply FQDN filtering (to include wildcards!), and we support HTTP/S and additional protocols.



WFH USER-VPN COMPARTMENTALIZATION

Ensure your work from home (WFH) users can only access the virtual networks you grant them access to; deliver air gaps in the cloud.



HIGH SPEED ENCRYPTION

The fastest encryption available in the cloud. Free applications from encryption bottlenecks with Aviatrix high performance encryption with InsaneMode.



SERVICE INSERTION

The default transit options, such as AWS TGW or Azure do not allow easy insertion of a next-gen firewall. Aviatrix allows easy insertion of NGFW, removes the need for SNAT, and scales out in an A/A architecture.

Turn On Aviatrix Now

[Aviatrix in AWS Marketplace](#)
[Aviatrix in C2S for the IC](#)
[Aviatrix in Azure Marketplace](#)
[Aviatrix in Google Cloud Platform](#)

Self-Guided Configuration

[Aviatrix Getting Started Guide](#)

Guided Configuration

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