Aviatrix AVX – Plan, Build, View, Audit, and Control Your Global Multi-Cloud Transit Network

Aviatrix Multi-Cloud Networking Platform simplifies, abstracts, and extends transit networking in the cloud at scale. The Aviatrix Controller directly programs all routing and security policies across your virtual data centers (VPCs, VNETs or VNCs), automates route propagation and provides secure network segmentation. The solution enables you to create simplicity rather than manage complexity.

KEY HIGHLIGHTS

Aviatrix Orchestrator delivers following benefits for building the next generation simplified, multi-cloud transit networks:

- **Dynamic Route Propagation** – Ensure that on-prem routes are dynamically propagated to the virtual data centers so that route entries are updated in spoke route tables in addition to any transit hub entries.
- **Secure Network Segmentation** – Creates network segmentation by adding or removing routes based on segmentation policies.
- **Scalability** – Overcome route limits in native constructs in order to scale hybrid deployments to 100s or 1,000s of spoke connections
- **Policy Abstraction** – Build on native cloud networking capabilities to allow route tables to propagate routes to each other without manually programming the actual route entry, this allows you to define policies that form a security boundary.
- **Multi Account Support** – Automate cloud account resource sharing to seamlessly manage multi account network connections and overlapping IP spaces.
- **Multi-Cloud Architecture** – Create and manage a multi-cloud global transit architecture with a single pane of glass.
- **Hybrid Cloud Support** – With data center connection support(e.g. Direct Connect or Express Route), the AVX controller propagates routes from the transit hub to on-prem BGP router.
- **Reduced Opex with Faster Troubleshooting** – Enable FlightPath point-to-point connectivity tool for troubleshooting connectivity between instances in minutes.

As enterprises move to the cloud there is a strong desire to move away from deployment models requiring IT teams to manually build network connectivity using native constructs, to a model that automates deployments by leveraging and controlling native constructs programmatically. The Aviatrix AVX Multi-cloud network platform delivers this model.

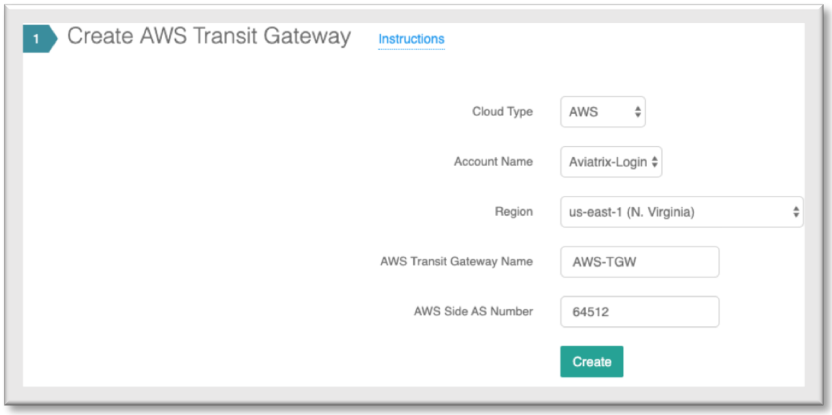
Enterprise are now able to simplify multi-cloud transit networking and deploy a global cloud networking architecture that scales for new properties, applications, and clouds.

Technical benefits include:

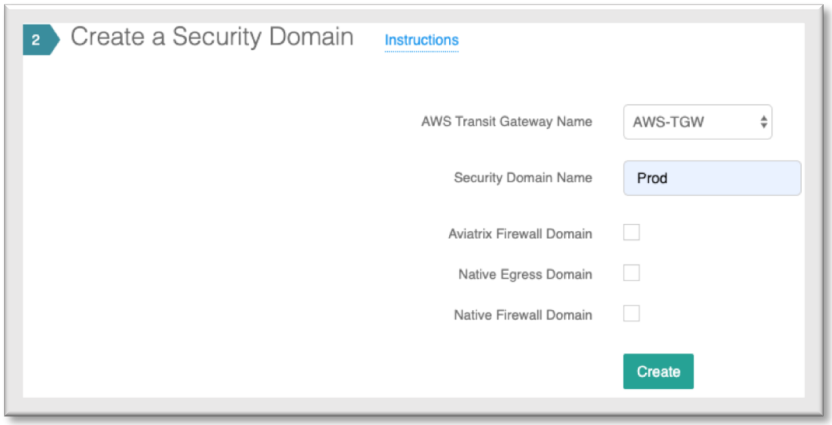
- Deploy your Transit Network and attach spokes in minutes with a workflow-based orchestration
- Visualize your global transit network, network segmentation policies, Transit Gateway route tables and attachments in the dashboard
- Troubleshoot connectivity between instances in minutes using expert FlightPath tool and diagnostics

Automate:

- Aviatrix Controller creates and launches a native transit hub (in this picture AWS Transit Gateway, but could be an transit hub in any cloud) and automatically deploys three route domains - Edge Domain, Shared Services, Default Domain.

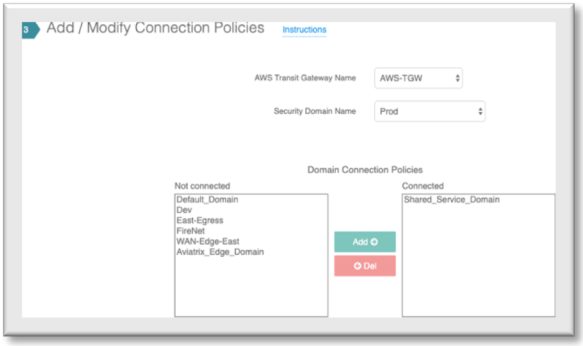


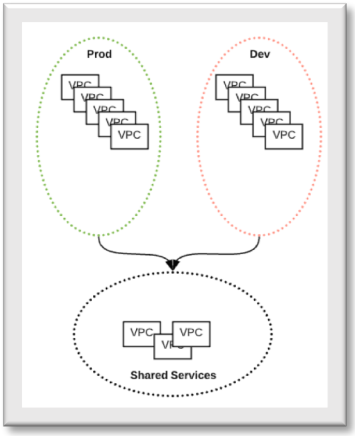
- The Controller creates unique route domains based on segmentation policies. This enables cloud networking teams to segment traffic to enforce corporate and regulatory compliance (e.g. PCI Segmentation)



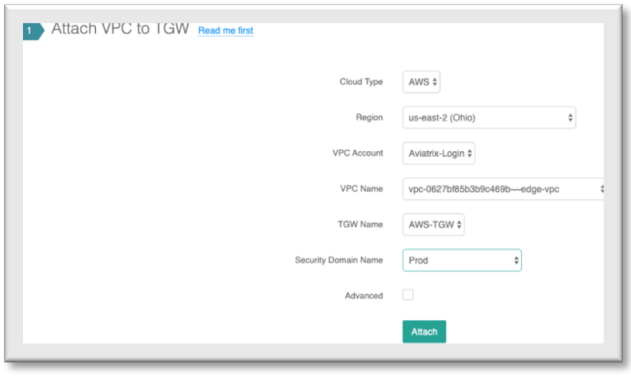
Control:

- Aviatrix Controller controls connectivity between security domains. Spokes in one security domain are isolated from spokes in other security domains by default.



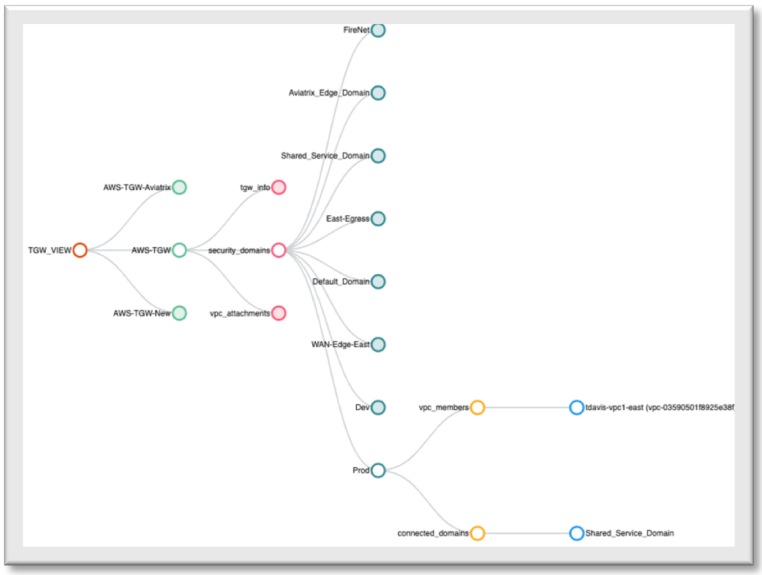


- The solution automates spoke attachments to a transit hub and associates them with the appropriate security domain



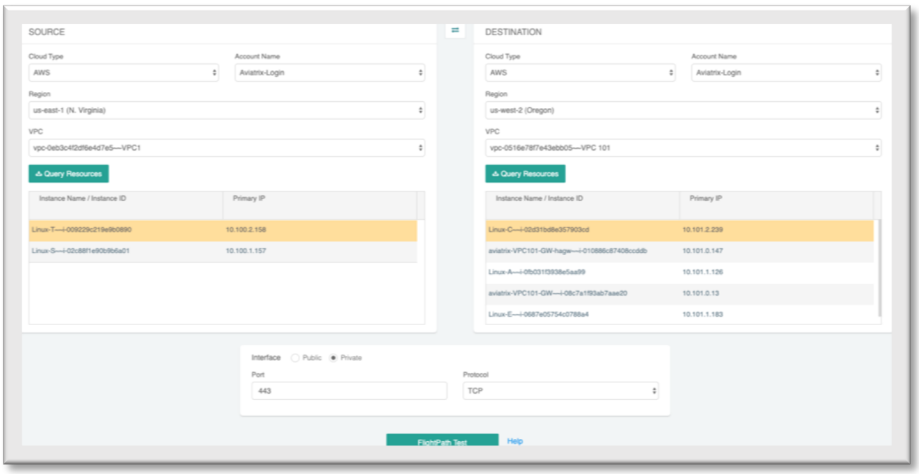
Visualize:

- Single pane of glass provides a view of security domains, spoke attachments and enabled connectivity paths.



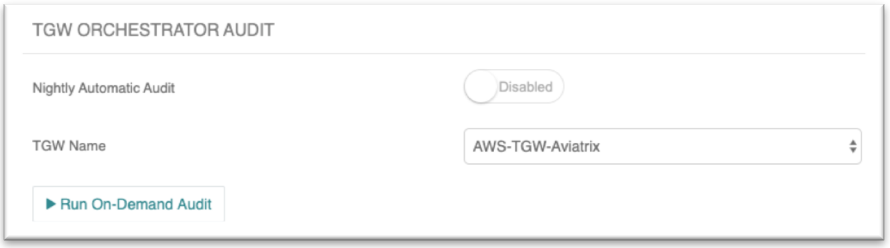
Test:

- Aviatrix FlightPath enables you to validate connectivity between any two cloud workloads, checking security groups, route tables, and access control lists that enable or block communications.



Audit:

- Audit connection policies to ensure no one has manually updated routes between security domains to allow when the route should be blocked.



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