

SOLUTION BRIEF

Master Cloud Networking Control

Overcome Partial Cloud Visibility: Optimize Performance, Cost, and Security

Organizations adopt cloud technologies in today's rapidly evolving digital landscape to drive innovation and gain a competitive edge. However, this shift to the cloud brings unique challenges to the organization's operations teams, particularly when it comes to cloud visibility and disparate tooling.

- **Cloud chaos** refers to the complexities of multicloud environments with a jumble of tools, leading to uncontrolled expenses, security risks, and poor application performance.
- **Cloud visibility** refers to monitoring, analyzing, and understanding network traffic, security logs, and performance metrics within a single or multicloud environment.
- **Disparate tooling** refers to using different and unrelated tools or software systems within an organization or industry. Cloud provider tools may not integrate or interact with each other, leading to a lack of alignment and interoperability. This is, of course, amplified if an organization is using multiple cloud providers.

Operations teams that lack a unified view of their network and proper tooling for troubleshooting problems suffer longer mean-time-to-remediation (MTTR) during service disruptions, directly impacting business and customer satisfaction. Furthermore, inadequate visibility into cloud usage and unauthorized applications creates potential security risks and compliance challenges. Employees may unknowingly engage in shadow IT or use unsanctioned cloud applications, which can expose sensitive data, compromise organizational security, and increase costs.

To address these challenges, organizations need solutions that offer centralized cloud visibility with integrated tooling across multicloud environments. Consolidating network traffic data, security logs, and performance metrics offers organizations real-time insights into their cloud networks – enabling proactive security measures, ensuring compliance, and optimizing performance and costs.

“Aviatrix's cloud networking and security platform delivers the consistent operational visibility, control, and automation we need to efficiently manage our multicloud environment. A force multiplier, Aviatrix has enabled our small operations team to effectively operate and secure our business-critical, global cloud infrastructure.”

– VP of Cloud Infrastructure Operations
Global Pharmaceutical Company

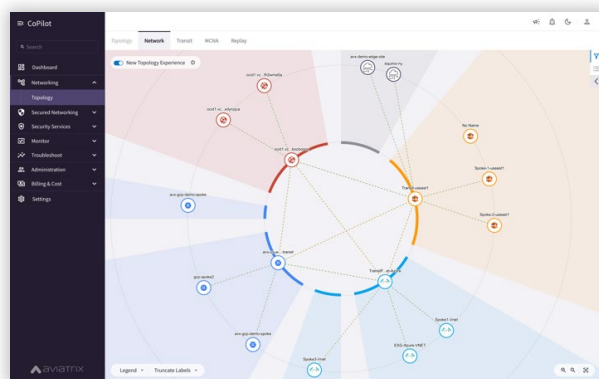
Simplify Cloud Networking and Visibility with Aviatrix

Aviatrix simplifies cloud network operations, visibility, and automation, improves network security, and reduces cloud infrastructure costs for enterprises with business-critical applications in the cloud. Our platform delivers visibility and operational control by embedding telemetry and programmable controls into the enterprise cloud network. Native cloud networking constructs don't provide the detail required by enterprise cloud infrastructure operations teams – that's where Aviatrix CoPilot comes in. The screenshots below offer a glimpse into the powerful real-time visualizations Aviatrix CoPilot provides.



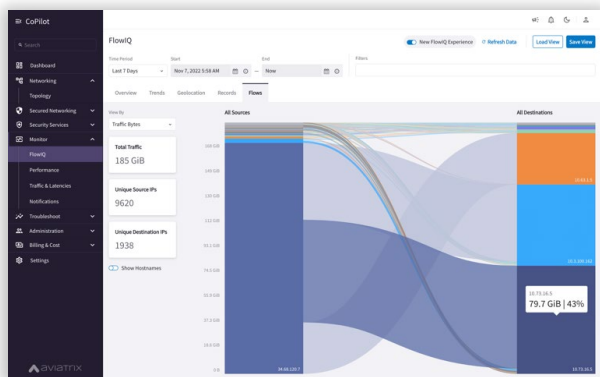
Topology Replay

Allows operators to “go back in time.” Understand instantly what changes have been made to the cloud network infrastructure, when those changes were made, and by who.



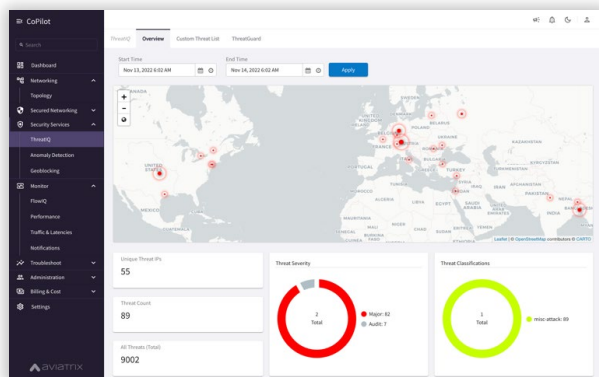
Dynamic Topology Mapping

Provides operators a global view of the multicloud network topology including all resource information, connectivity status, customized layouts, and direct troubleshooting, including global search and real-time packet capture.



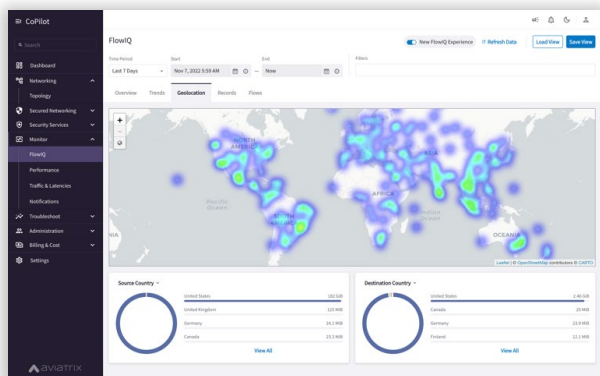
Multicloud Network Flow Analytics

FlowIQ analyzes every flow on the cloud network, allowing operators to quickly identify top talkers, and search and sort on source, destination, ports, and protocols, drilling down to troubleshoot and resolve application-level issues.



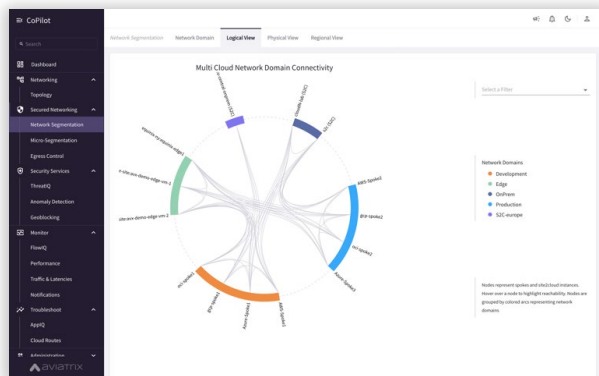
Automated Threat Detection and Mitigation

ThreatIQ analyzes all network traffic and compares source and destination addresses to a Proofpoint database of malicious IPs. If any communications are established with a known malicious address, the communication can be immediately blocked in the network.



Global Traffic Geo-Mapping

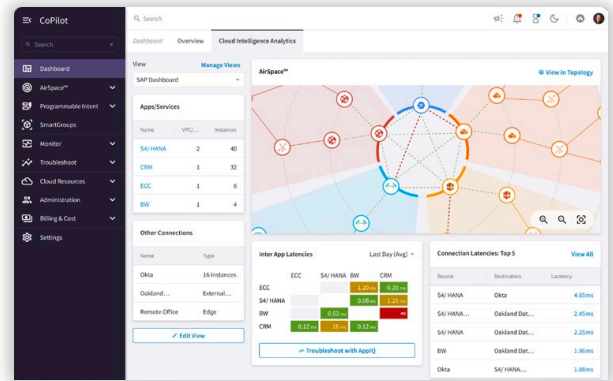
Visually detect unusual traffic patterns, including traffic flows with sources or destinations in areas of the world that are unexpected. Security operations teams can easily identify suspicious flows or block specific geographies.



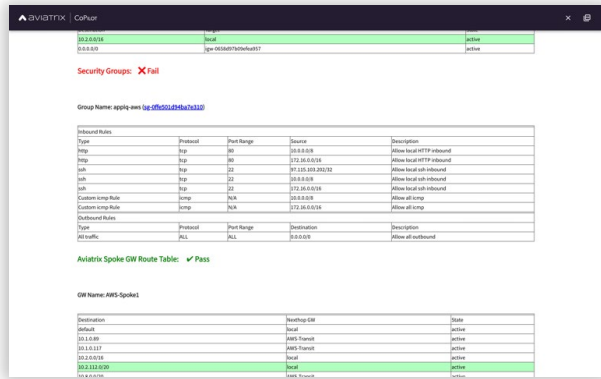
Multicloud Network Segmentation

Visualize multicloud segmentation policies to easily understand what resources can talk with other resources. For example, are development VPC resources able to connect to production VNet resources?

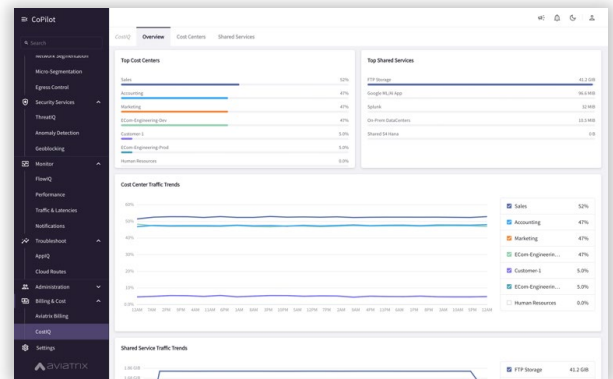
Cloud network latency is an important element of troubleshooting application performance issues. CoPilot visualizes latency trends allowing for both real-time analysis and trend analysis to identify potential performance issues before they occur.



The combination of ApplQ and application specific dashboards allow operators to troubleshoot and resolve application-specific problems. For example, focusing specifically on SAP application ports in an SAP dashboard.



CoPilot allows operators to quickly troubleshoot “application” issues by automatically analyzing the path traffic between two workloads. The analysis examines route table entries, native security groups in both directions and highlights problems that may be impacting connectivity.



Aviatix Billing and CostIQ allow operators to accurately measure what cost centers are using shared cloud services. Shared resources and cost centers are easily defined and measured based on network usage for accurate cost allocations and documentation.

No company desires to become more complex, but it's often the outcome of organic growth and post-merger integrations. Innovations, new regulatory compliance requirements, and operational cost reduction goals require a multicloud networking solution that meets the needs of your business today and tomorrow. Aviatrix empowers your team with simplified networking automation, 3rd party integrations, cost optimization, and network stability to exceed your company's evolving business requirements.

Check out our customer stories to learn how we have helped some of the world's largest companies simplify cloud networking. From reducing costs to improving network visibility and enhancing cloud security, we have supported our customers in meeting their critical business needs. Hear from a few customers: <https://aviatrix.com/featured-customers/>

Aviatrix® is the cloud networking expert. We're on a mission to make cloud networking simple so companies stay agile. Trusted by more than 500 of the world's leading enterprises, our cloud networking platform creates the visibility, security, and control needed to adapt with ease and move ahead at speed. Combined with the [Aviatrix Certified Engineer \(ACE\) Program](#), the industry's leading multicloud networking and security certification, Aviatrix empowers the cloud networking community to stay at the forefront of digital transformation. Learn more at www.aviatrix.com.