Security Close to the Applications

THREATIQ, GEOBLOCKING AND ANOMALY DETECTION

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Aviatrix Certified Engineer

Aviatrix ThreatIQ and Threat Guard

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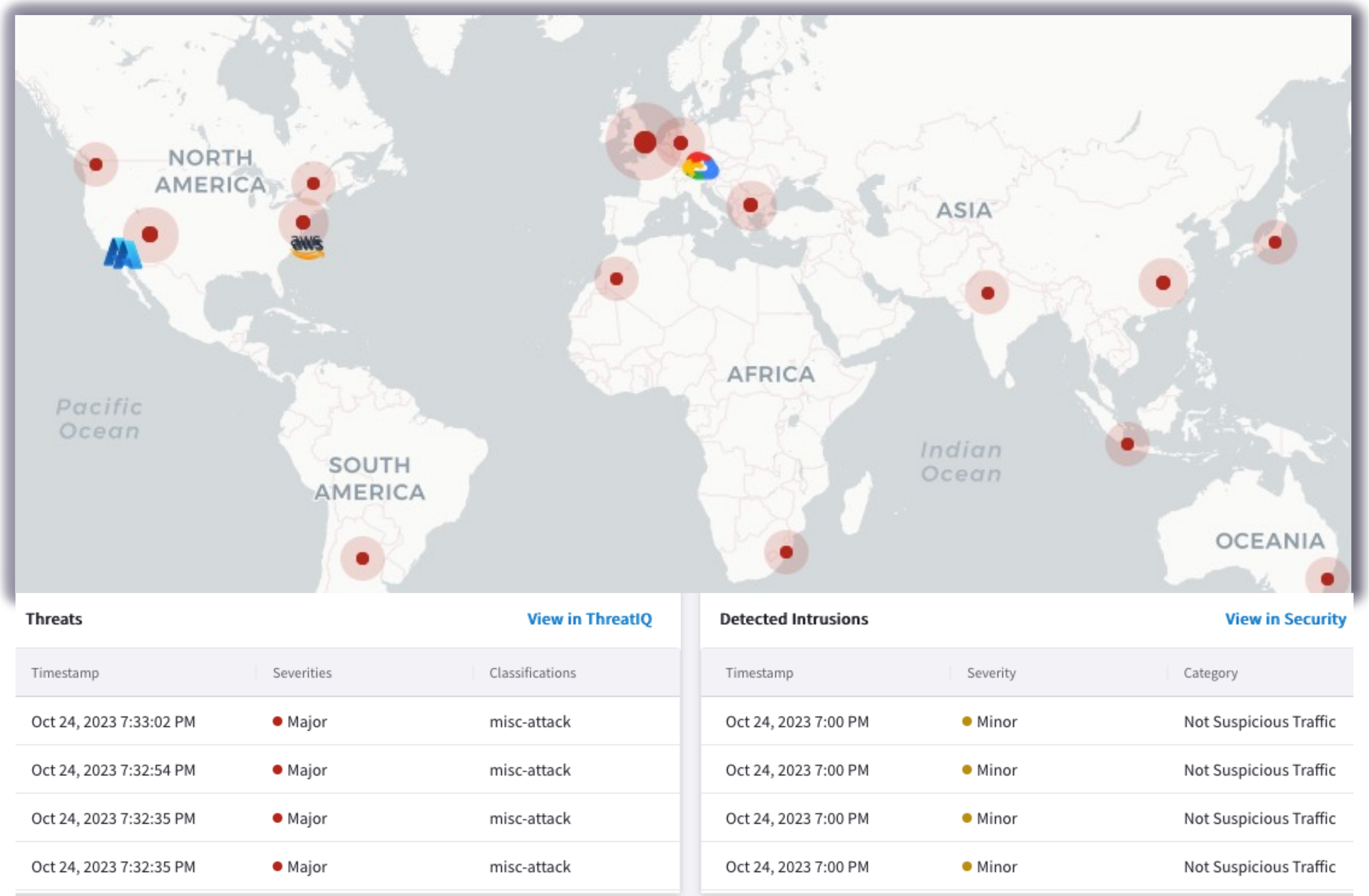
What is it?

- Multicloud native network security to dynamically **identify, alert, and remediate potential threats** to known malicious destinations
- **Distributed threat visibility** and control built into the network data-plane at every hop
- Identify potential **data exfiltration and compromised host**
- **No data-plane performance impact**
- **Complementary security solution** with full multicloud support



Threats — View in ThreatIQ

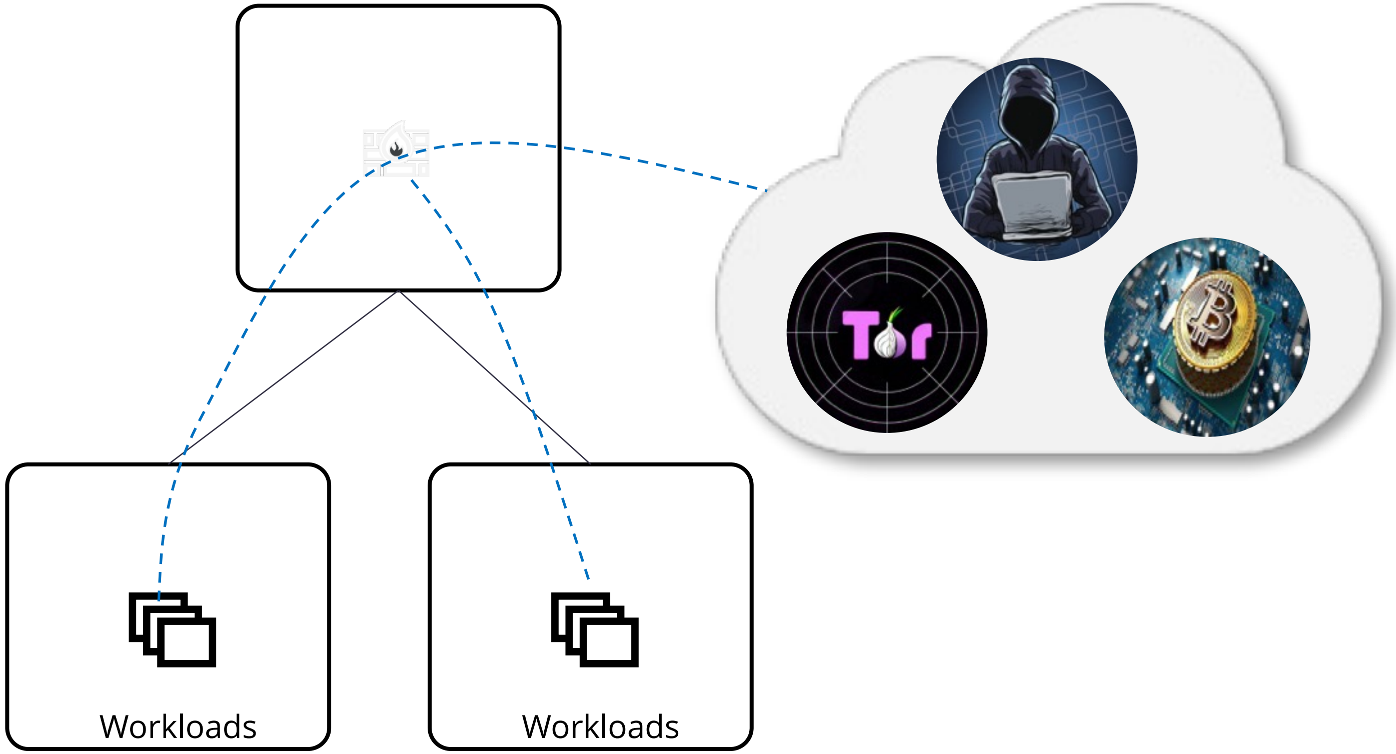
Timestamp	Severities	Classifications
Oct 24, 2023 7:33:02 PM	● Major	misc-attack
Oct 24, 2023 7:32:54 PM	● Major	misc-attack
Oct 24, 2023 7:32:35 PM	● Major	misc-attack
Oct 24, 2023 7:32:35 PM	● Major	misc-attack

Detected Intrusions — View in Security

Timestamp	Severity	Category
Oct 24, 2023 7:00 PM	● Minor	Not Suspicious Traffic
Oct 24, 2023 7:00 PM	● Minor	Not Suspicious Traffic
Oct 24, 2023 7:00 PM	● Minor	Not Suspicious Traffic
Oct 24, 2023 7:00 PM	● Minor	Not Suspicious Traffic

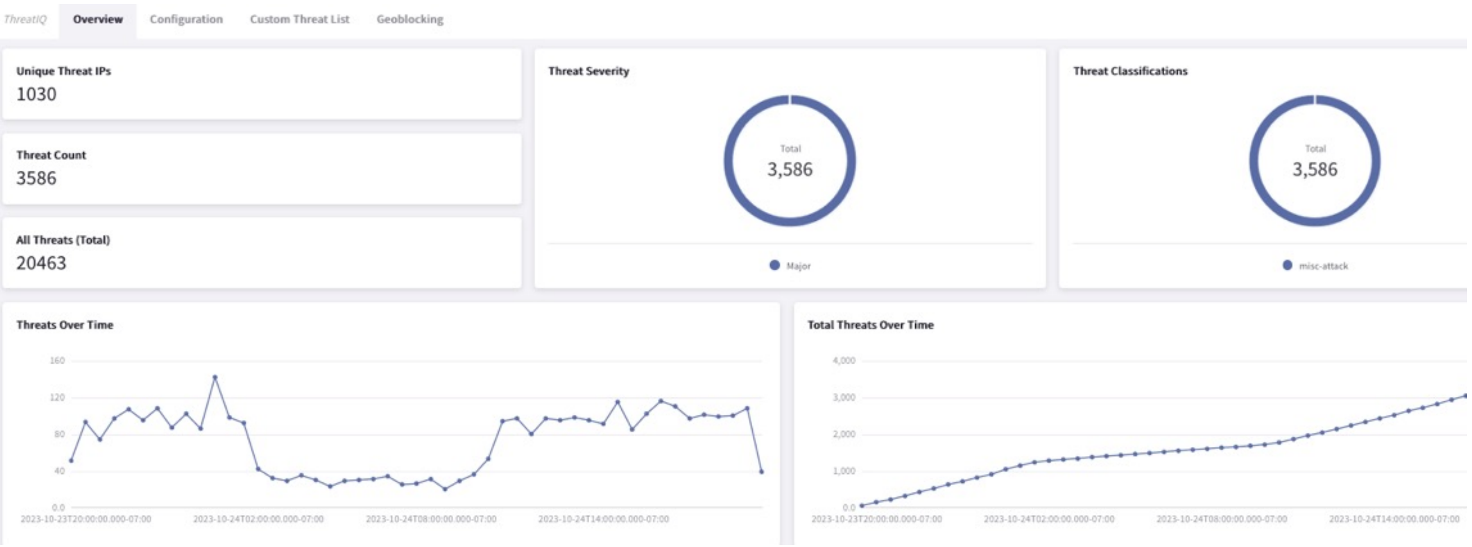
Why should enterprises care about it?

- Internet access is everywhere in the cloud and on by default for some CSPs
- Funneling traffic through choke points or 3rd party services is inefficient and ineffective
- Protect business from security risks associated to:
  - Data exfiltration
  - Botnets
  - Compromised hosts
  - Crypto mining
  - TOR
  - DDoS, and more



How does it work?

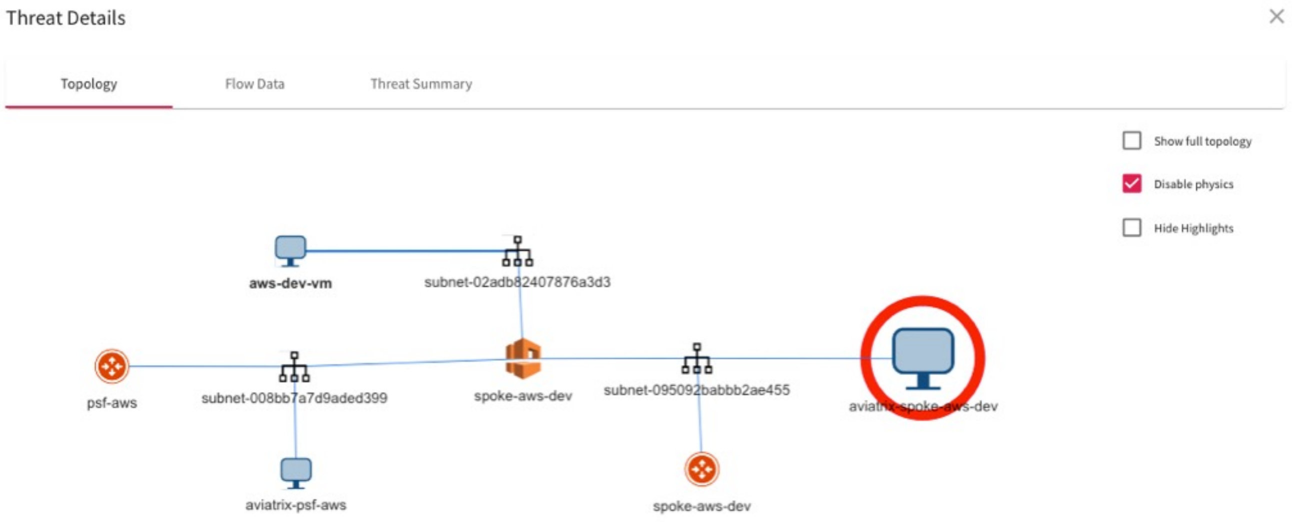
- **Distributed Inspection & Notification**
  - Aviatrix gateways across Multicloud environment send real-time NetFlow data to CoPilot
  - CoPilot analyzes the data on all public destinations against well-known Threat DB
  - CoPilot alerts on any potential threats in the environment
  - CoPilot provides extreme visibility of the impacted communication flow
- **Distributed Enforcement**
  - CoPilot informs Aviatrix Controller to push firewall policies to all the Aviatrix gateways in the data path
  - Firewall policies automatically get updated with the current status of the threat
  - Blocking threats with firewall policy is optional but recommended


ThreatIQ
Overview
Configuration
Custom Threat List
Geoblocking
Threat Severity
Total
3,586
Major
Threat Classifications
Total
3,586
misc-attack
Threats Over Time
160
120
80
40
0.0
2023-10-23T20:00:00.000-07:00
2023-10-24T02:00:00.000-07:00
2023-10-24T08:00:00.000-07:00
2023-10-24T14:00:00.000-07:00
Total Threats Over Time
4,000
3,000
2,000
1,000
0.0
2023-10-23T20:00:00.000-07:00
2023-10-24T02:00:00.000-07:00
2023-10-24T08:00:00.000-07:00
2023-10-24T14:00:00.000-07:00

Unique Threat IPs
1030

Threat Count
3586

All Threats (Total)
20463



☐ Show full topology
☑ Disable physics
☐ Hide Highlights

Workflow

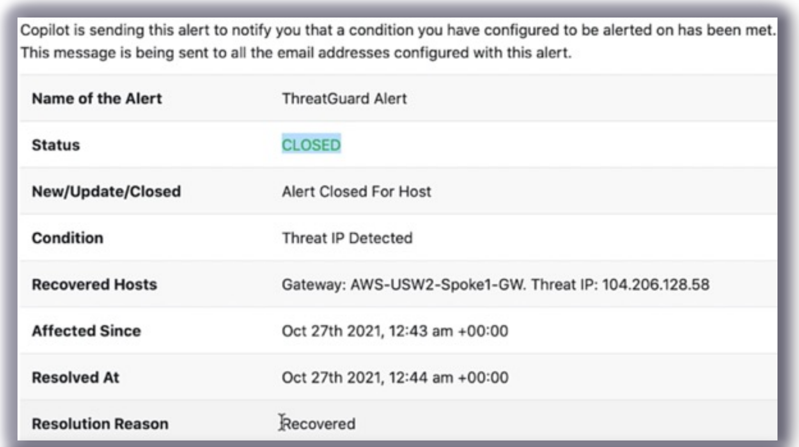
Aviatrix Controller

Threat DB

2 ANALYZE

Aviatrix CoPilot

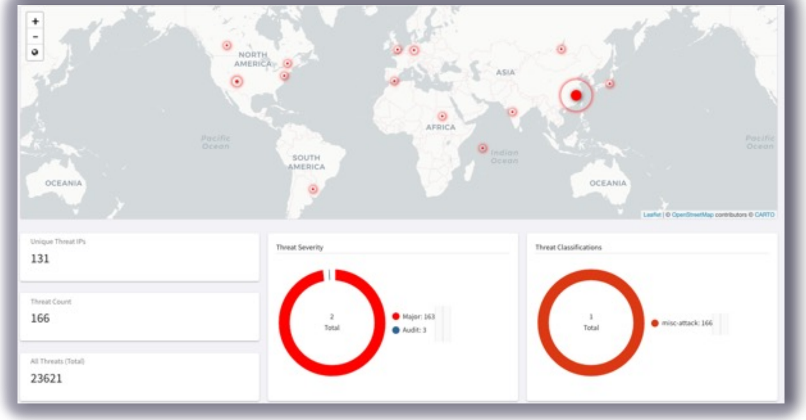
4 ALERT



Copilot is sending this alert to notify you that a condition you have configured to be alerted on has been met. This message is being sent to all the email addresses configured with this alert.

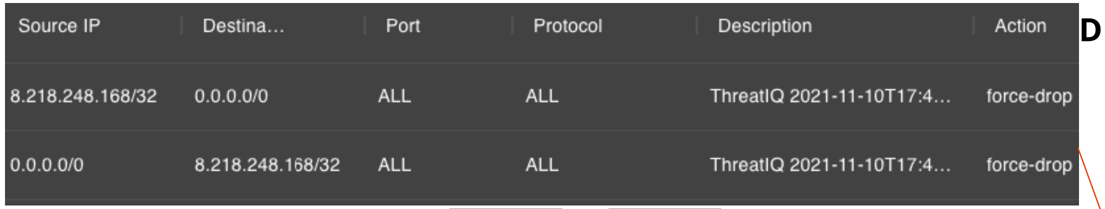
Name of the Alert	ThreatGuard Alert
Status	CLOSED
New/Update/Closed	Alert Closed For Host
Condition	Threat IP Detected
Recovered Hosts	Gateway: AWS-USW2-Spoke1-GW. Threat IP: 104.206.128.58
Affected Since	Oct 27th 2021, 12:43 am +00:00
Resolved At	Oct 27th 2021, 12:44 am +00:00
Resolution Reason	Recovered

3 VISUALIZE



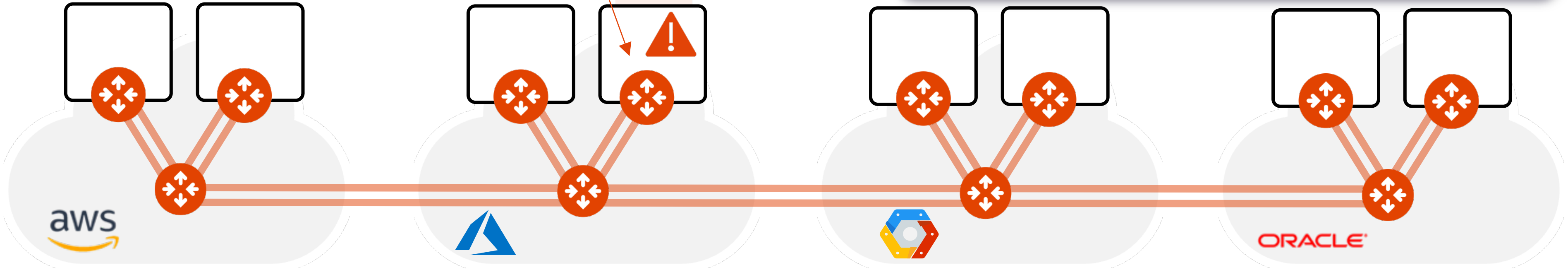
5 REMEDIATE

1 DISCOVER



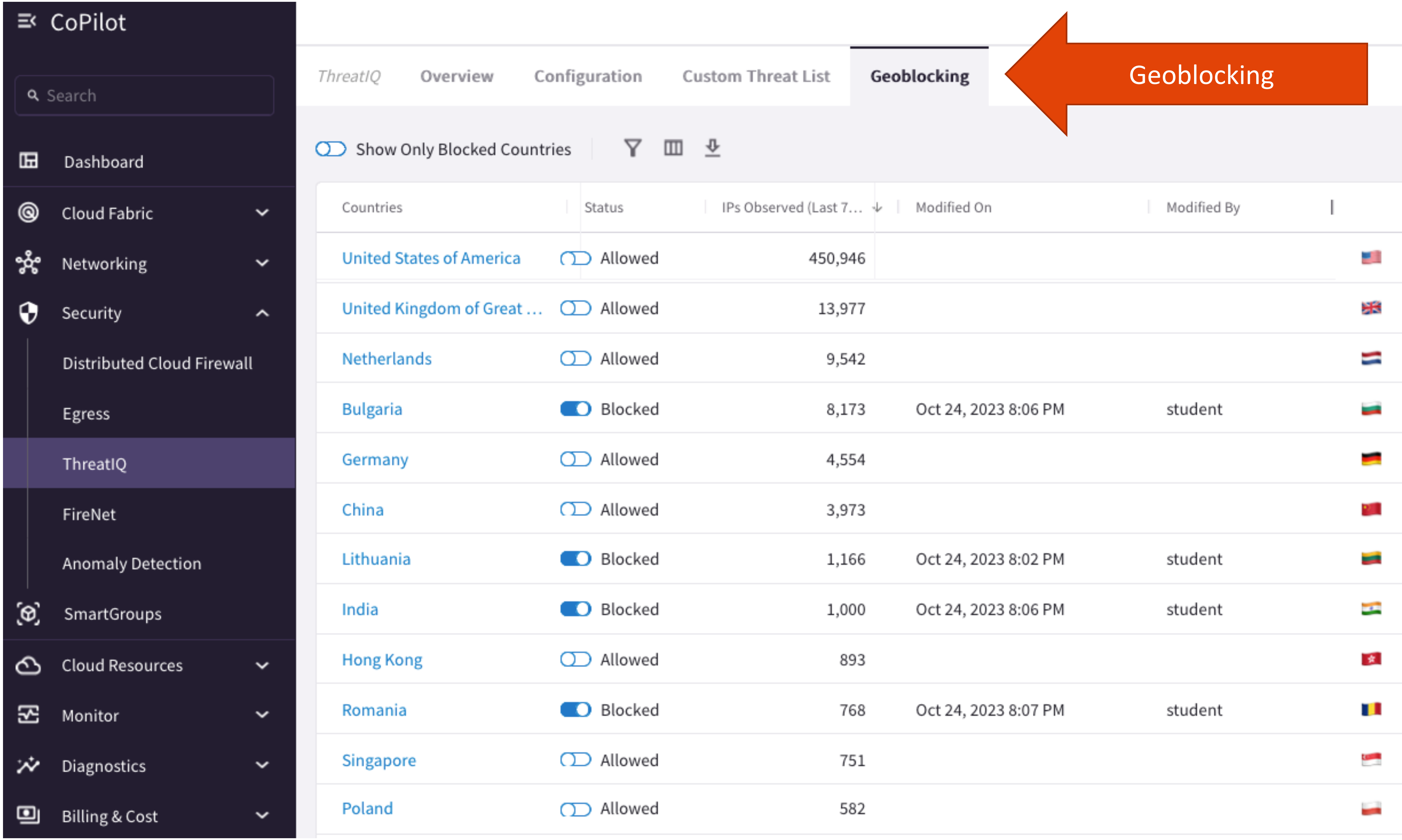
Source IP	Destina...	Port	Protocol	Description	Action
8.218.248.168/32	0.0.0.0/0	ALL	ALL	ThreatIQ 2021-11-10T17:4...	force-drop
0.0.0.0/0	8.218.248.168/32	ALL	ALL	ThreatIQ 2021-11-10T17:4...	force-drop

Firewall Rules



Visibility across entire multi-cloud network

Block Threats Based on Geographic Location



Geoblocking

Countries	Status	IPs Observed (Last 7…	Modified On	Modified By	
United States of America	Allowed	450,946			🇺🇸
United Kingdom of Great …	Allowed	13,977			🇬🇧
Netherlands	Allowed	9,542			🇳🇱
Bulgaria	Blocked	8,173	Oct 24, 2023 8:06 PM	student	🇧🇬
Germany	Allowed	4,554			🇩🇪
China	Allowed	3,973			🇨🇳
Lithuania	Blocked	1,166	Oct 24, 2023 8:02 PM	student	🇱🇹
India	Blocked	1,000	Oct 24, 2023 8:06 PM	student	🇮🇳
Hong Kong	Allowed	893			🇭🇰
Romania	Blocked	768	Oct 24, 2023 8:07 PM	student	🇷🇴
Singapore	Allowed	751			🇸🇬
Poland	Allowed	582			🇵🇱

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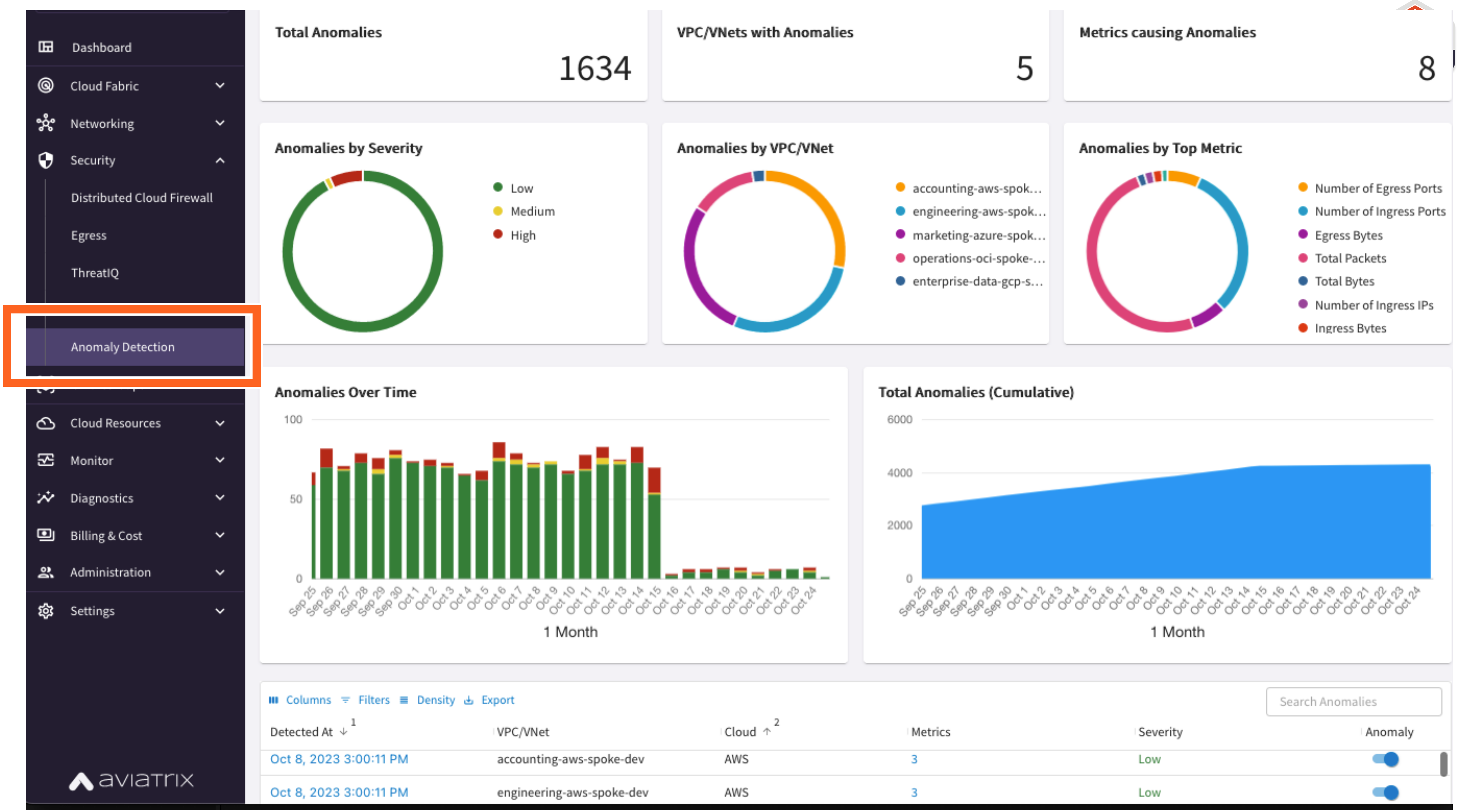
Network Behavior Analytics

Aviatrix Anomaly Detection

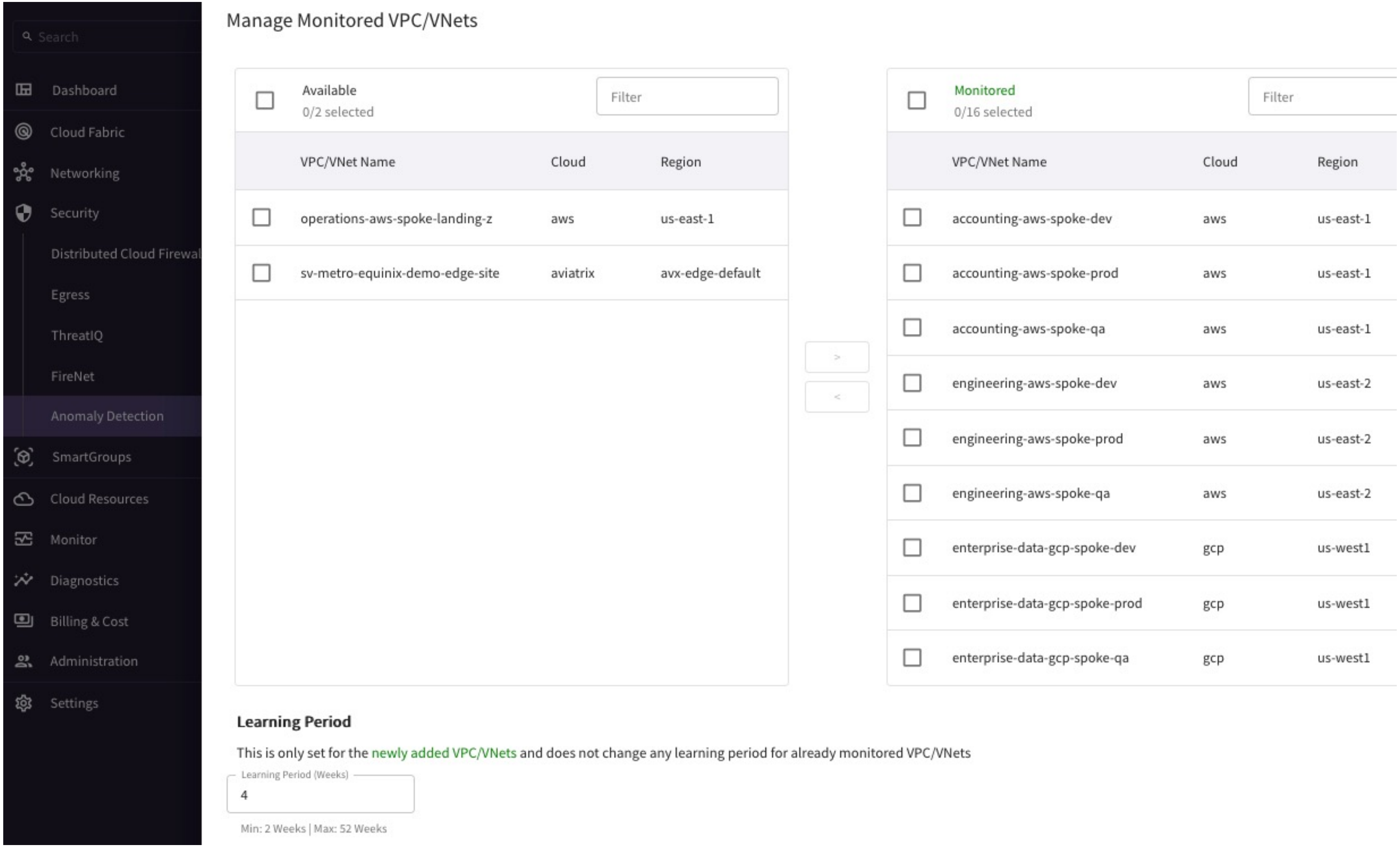


Total Anomalies 1634

VPC/VNets with Anomalies 5

Metrics causing Anomalies 8

Detected At ↓ 1	VPC/VNet	Cloud ↑ 2	Metrics	Severity	Anomaly
Oct 8, 2023 3:00:11 PM	accounting-aws-spoke-dev	AWS	3	Low	
Oct 8, 2023 3:00:11 PM	engineering-aws-spoke-dev	AWS	3	Low	



Manage Monitored VPC/VNets

□ Available
0/2 selected

	VPC/VNet Name	Cloud	Region
□	operations-aws-spoke-landing-z	aws	us-east-1
□	sv-metro-equinix-demo-edge-site	aviatrix	avx-edge-default

□ Monitored
0/16 selected

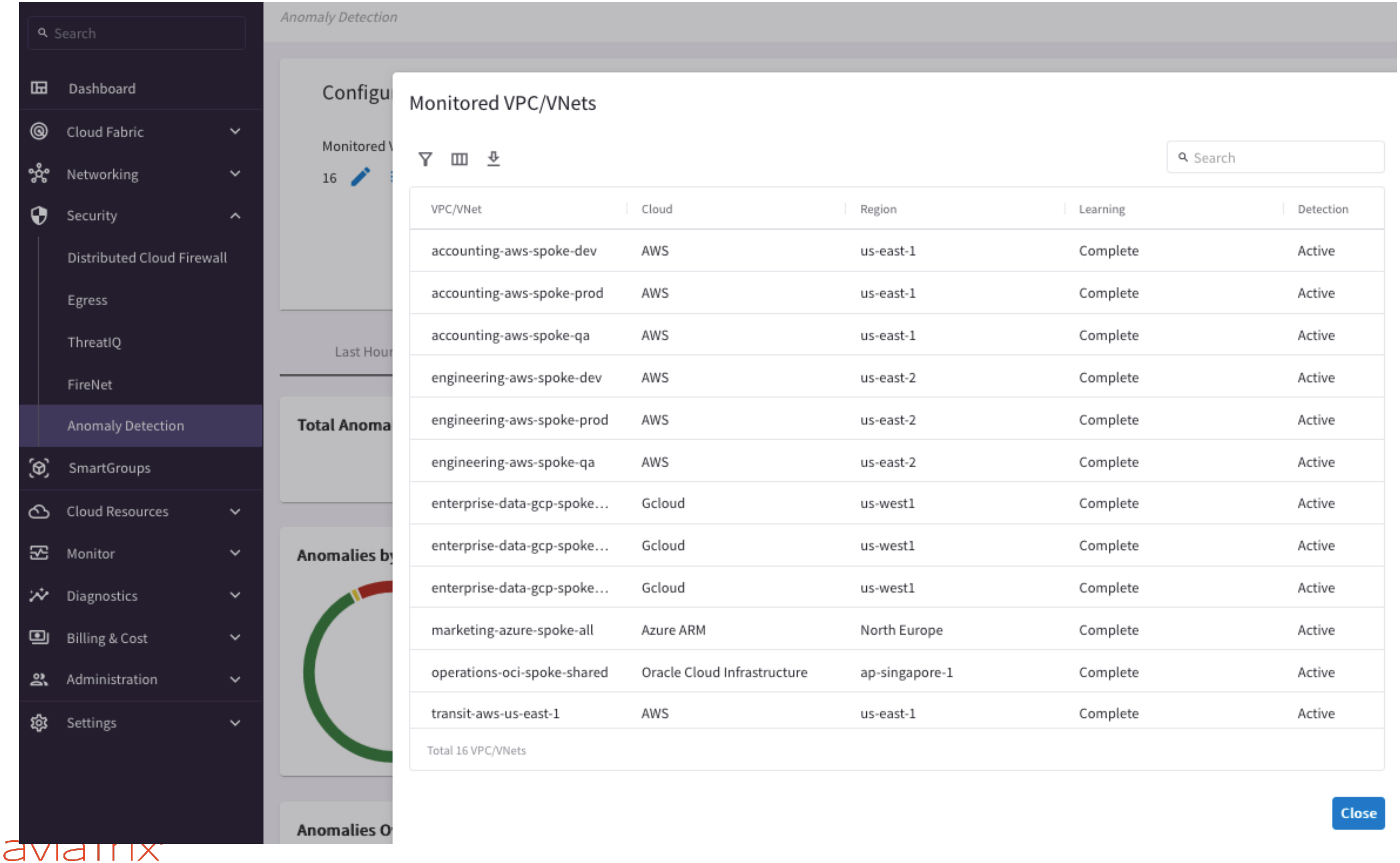
	VPC/VNet Name	Cloud	Region
□	accounting-aws-spoke-dev	aws	us-east-1
□	accounting-aws-spoke-prod	aws	us-east-1
□	accounting-aws-spoke-qa	aws	us-east-1
□	engineering-aws-spoke-dev	aws	us-east-2
□	engineering-aws-spoke-prod	aws	us-east-2
□	engineering-aws-spoke-qa	aws	us-east-2
□	enterprise-data-gcp-spoke-dev	gcp	us-west1
□	enterprise-data-gcp-spoke-prod	gcp	us-west1
□	enterprise-data-gcp-spoke-qa	gcp	us-west1

Learning Period

This is only set for the newly added VPC/VNets and does not change any learning period for already monitored VPC/VNets

Learning Period (Weeks): 4

Min: 2 Weeks | Max: 52 Weeks



Monitored VPC/VNets

VPC/VNet	Cloud	Region	Learning	Detection
accounting-aws-spoke-dev	AWS	us-east-1	Complete	Active
accounting-aws-spoke-prod	AWS	us-east-1	Complete	Active
accounting-aws-spoke-qa	AWS	us-east-1	Complete	Active
engineering-aws-spoke-dev	AWS	us-east-2	Complete	Active
engineering-aws-spoke-prod	AWS	us-east-2	Complete	Active
engineering-aws-spoke-qa	AWS	us-east-2	Complete	Active
enterprise-data-gcp-spoke…	Gcloud	us-west1	Complete	Active
enterprise-data-gcp-spoke…	Gcloud	us-west1	Complete	Active
enterprise-data-gcp-spoke…	Gcloud	us-west1	Complete	Active
marketing-azure-spoke-all	Azure ARM	North Europe	Complete	Active
operations-oci-spoke-shared	Oracle Cloud Infrastructure	ap-singapore-1	Complete	Active
transit-aws-us-east-1	AWS	us-east-1	Complete	Active

Total 16 VPC/VNets

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