Internet Egress close to the Applications

AVIATRIX DCF FOR SECURE EGRESS

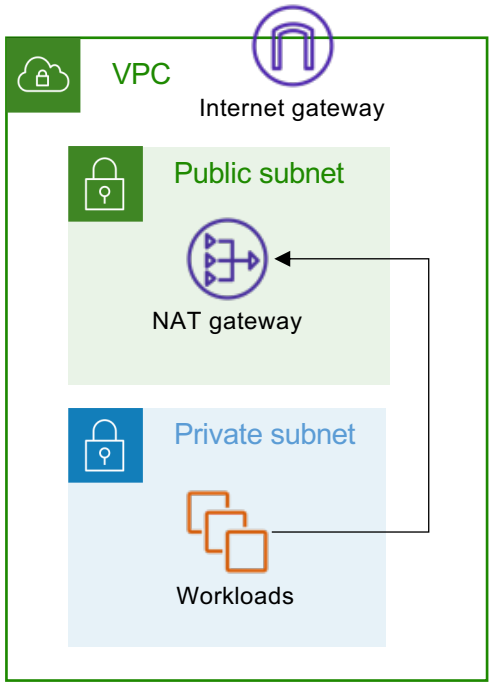
Problem Statement

Private workloads need internet access

- **SaaS integration**
- **Patching**
- **Updates**

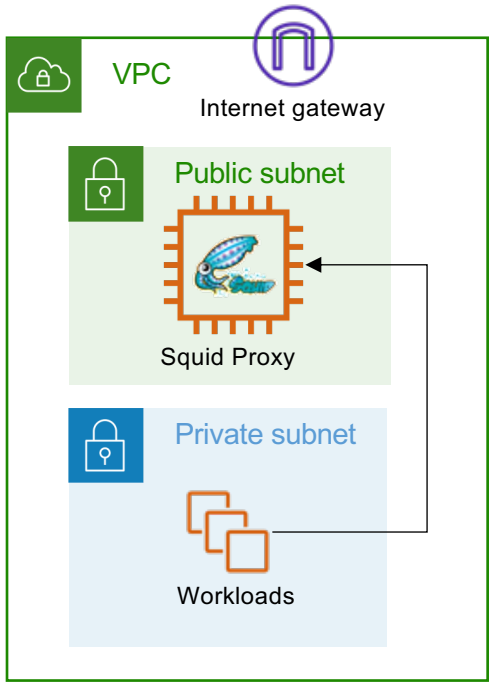
NAT Gateway

- NACLs are necessary
- Unrestricted access



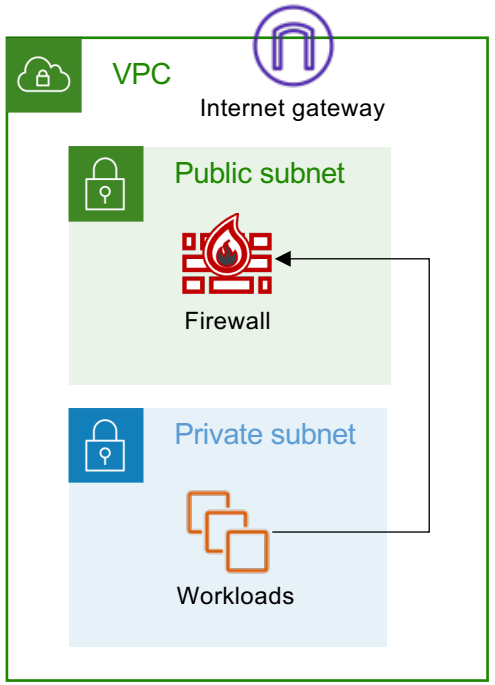
Squid Proxy

- Hard to manage
- Scale and HA issues

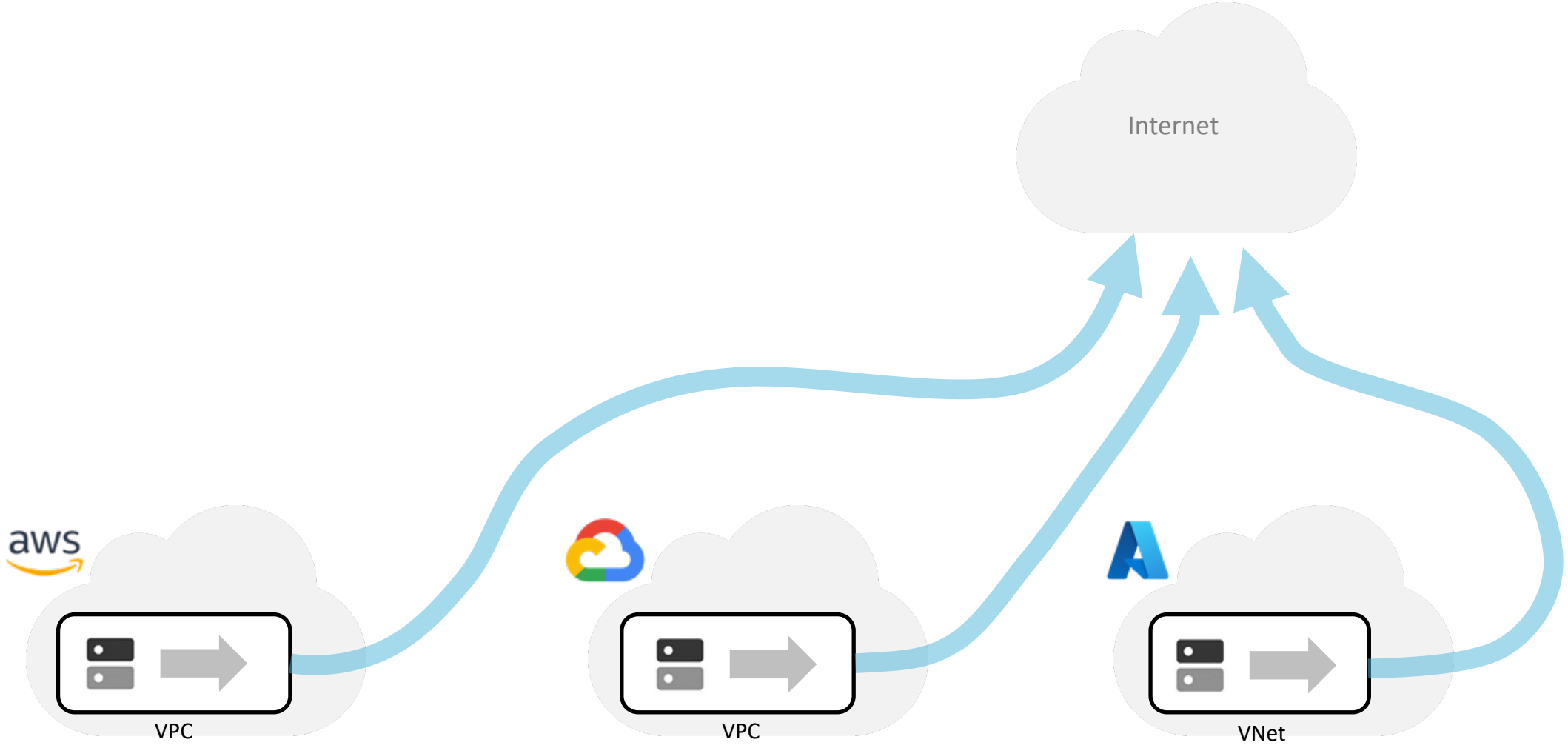


Layer-7 Firewall

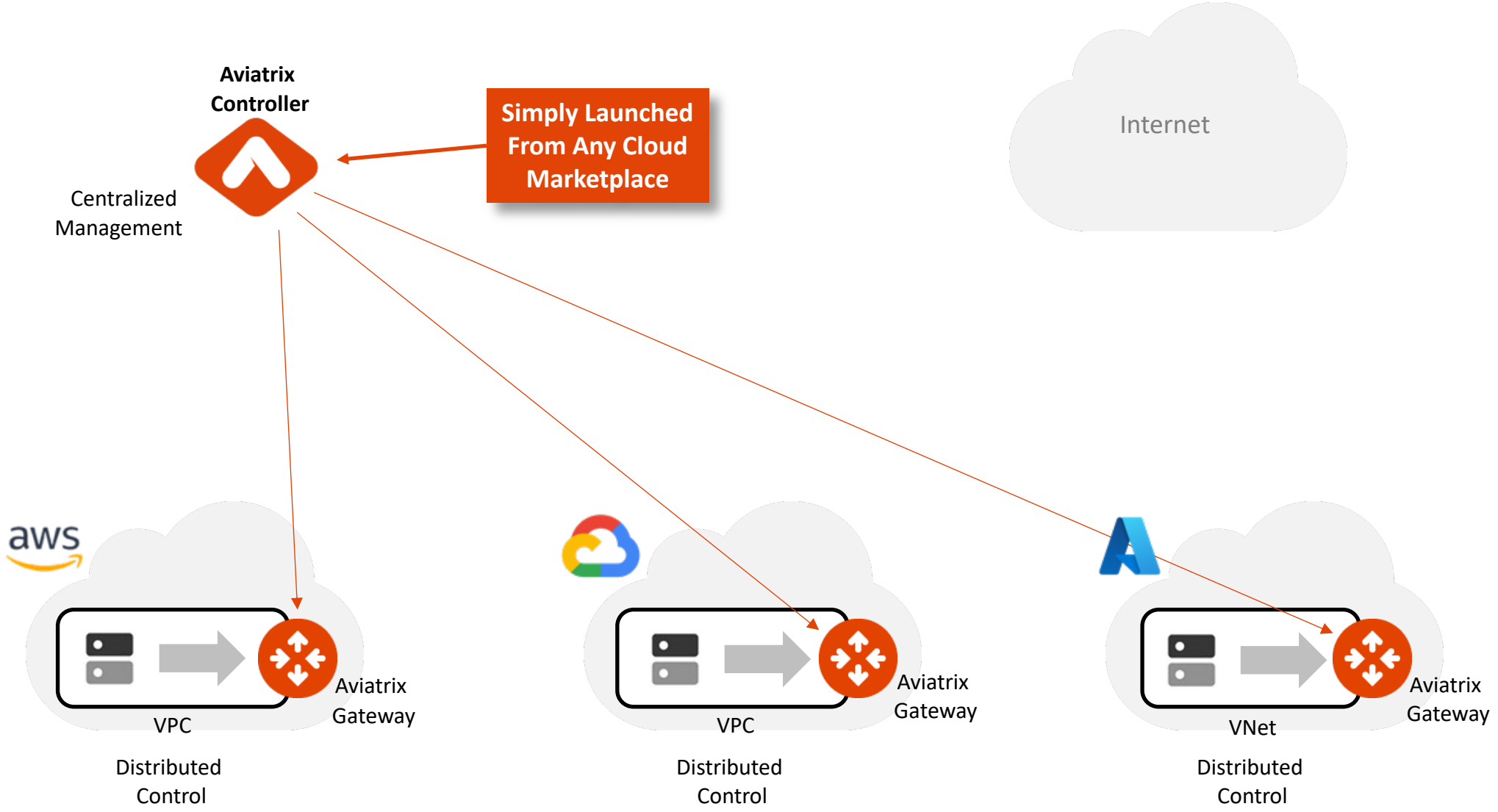
- Overkill
- Expensive



Aviatrix Secure Egress Filtering



Aviatrix Secure Egress Filtering



Distributed Cloud Firewall | Rules | Monitor | Detected Intrusions | **WebGroups** | Settings

⚠ WebGroups is in Preview. Preview features are not safe for deployment in production environments. Read more about Aviatrix Feature Mo

+ WebGroup

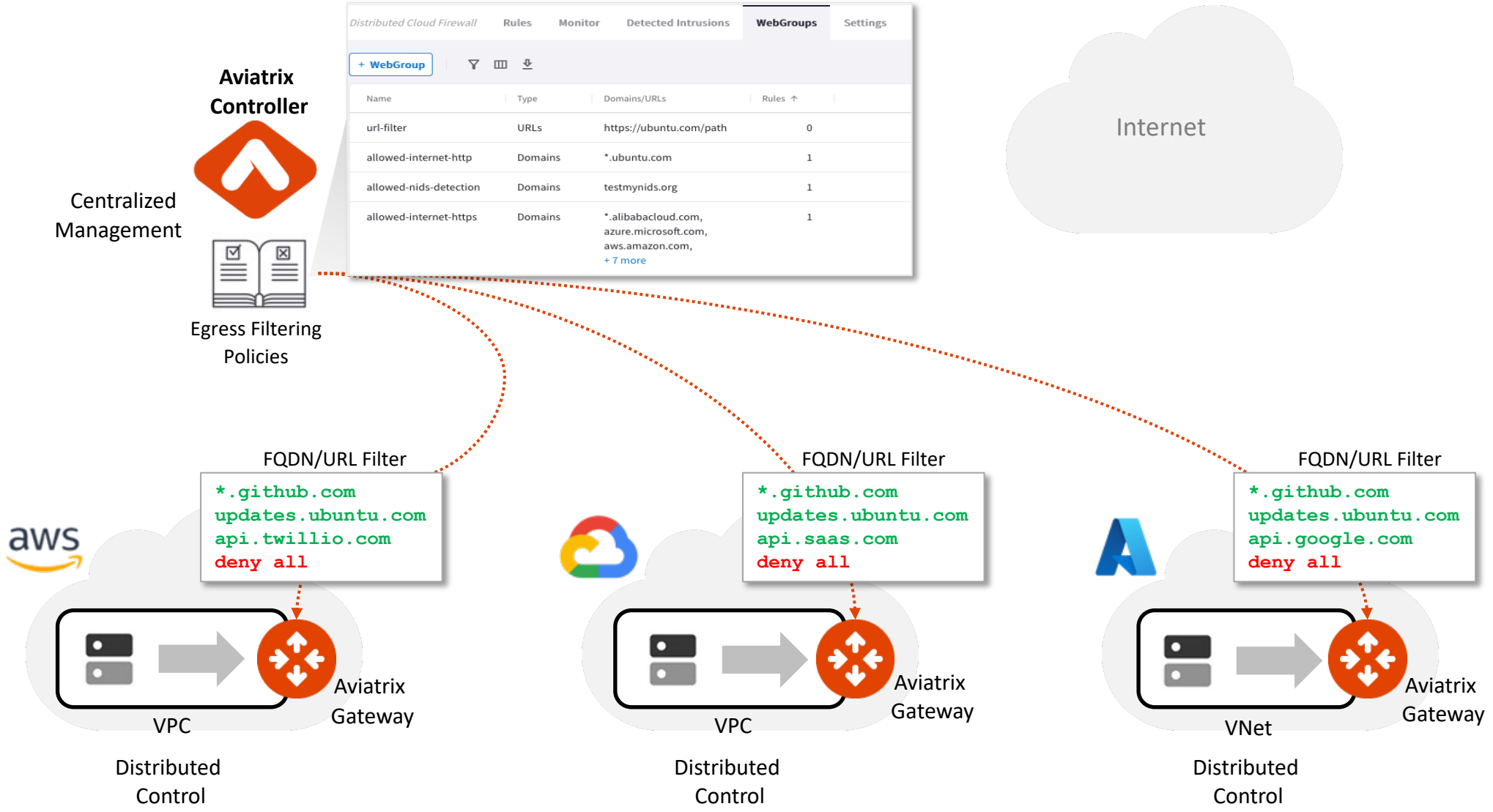
Name	Type	Domains/URLs	Rules
allowed-internet-http	Domains	*.ubuntu.com	1
allowed-nids-detection	Domains	testmynids.org	1
allowed-internet-https	Domains	*.alibabacloud.com, azure.microsoft.com, aws.amazon.com, + 7 more	1

Distributed Cloud Firewall | **Rules** | Monitor | Detected Intrusions | WebGroups | Settings

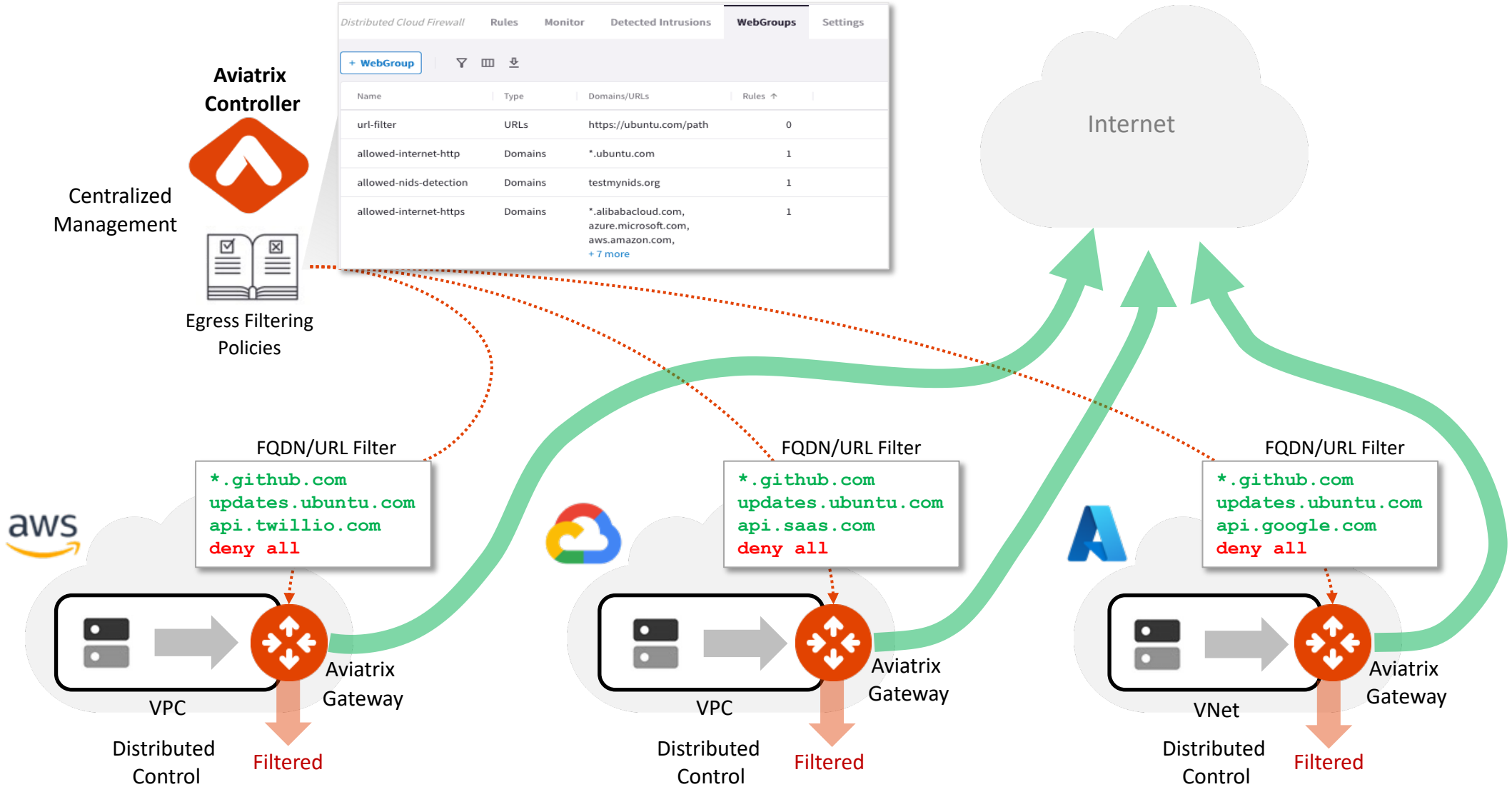
+ Rule | Actions | Search

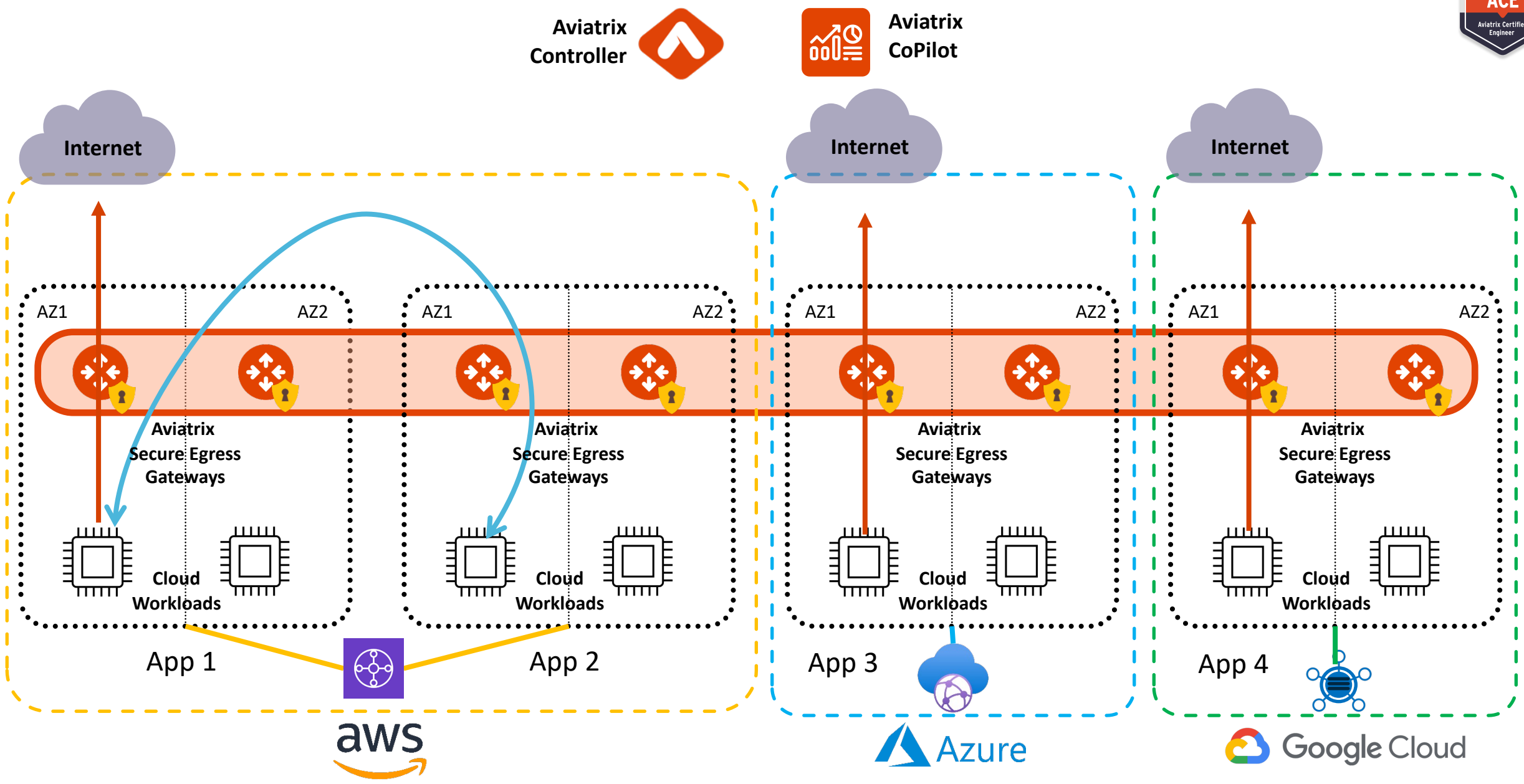
Priority	Name	Source	Destination	WebGroup	Protocol	Ports	Action	SG Orchest...	Decryption	IDS
0	allow-internet-http	rfc1918	Public Internet	allowed-internet-http, allowed-nids-detection	TCP	80	Permit	On		On
100	allow-internet-https	rfc1918	Public Internet	allowed-internet-https	TCP	443	Permit	On		

Aviatrix Secure Egress Filtering



Aviatrix Secure Egress Filtering




Aviatrix Controller
Aviatrix CoPilot
Internet
Internet
Internet
AZ1
AZ2
AZ1
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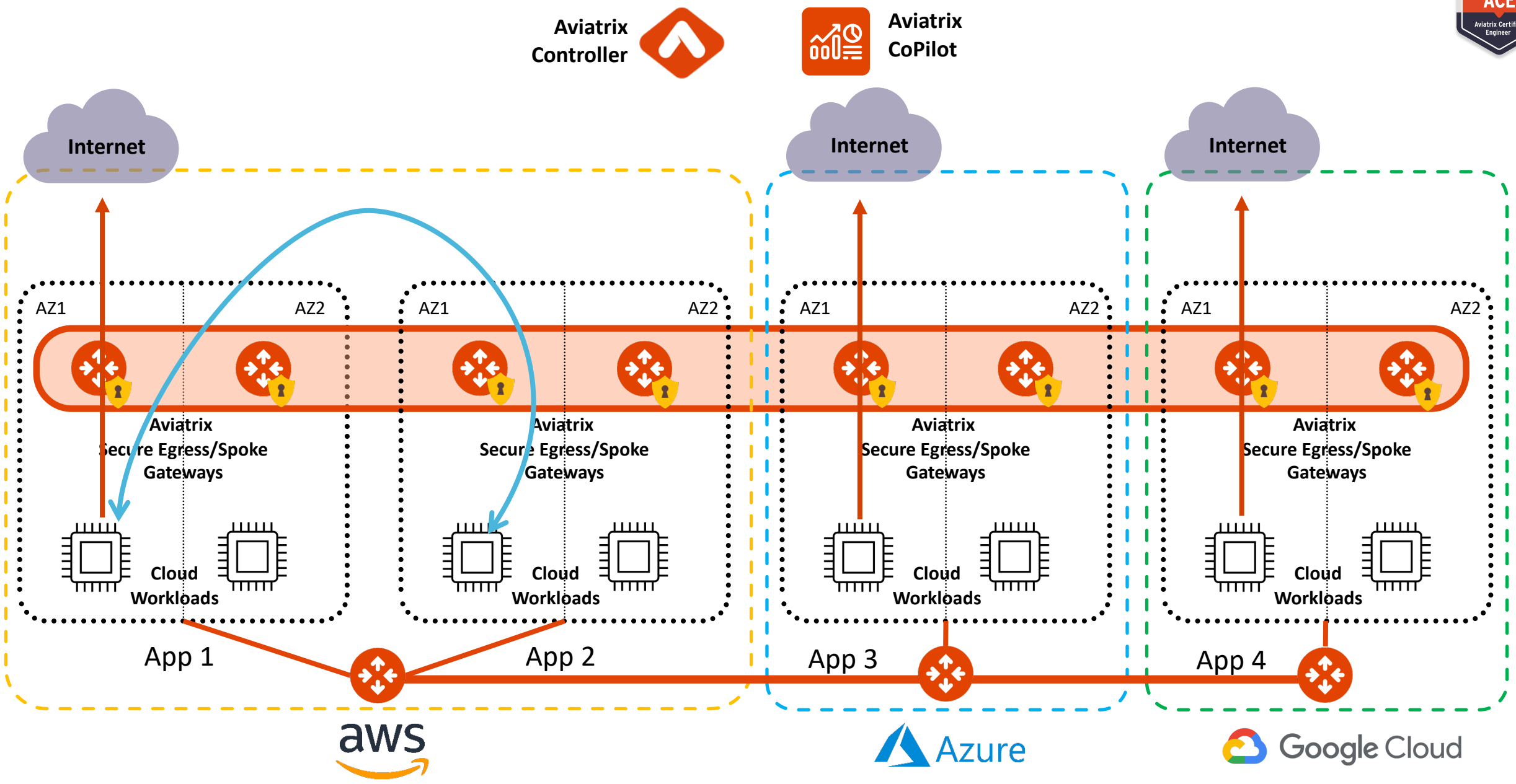
Aviatrix Secure Egress Gateways
Aviatrix Secure Egress Gateways
Aviatrix Secure Egress Gateways
Aviatrix Secure Egress Gateways
Cloud Workloads
Cloud Workloads
Cloud Workloads
Cloud Workloads
App 1
App 2
App 3
App 4
aws
Azure
Google Cloud

aviatrix


Aviatrix Controller
Aviatrix CoPilot
Internet
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AZ1
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Aviatrix Secure Egress/Spoke Gateways
Aviatrix Secure Egress/Spoke Gateways
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Aviatrix Secure Egress/Spoke Gateways
Cloud Workloads
Cloud Workloads
Cloud Workloads
Cloud Workloads
App 1
App 2
App 3
App 4
aws
Azure
Google Cloud

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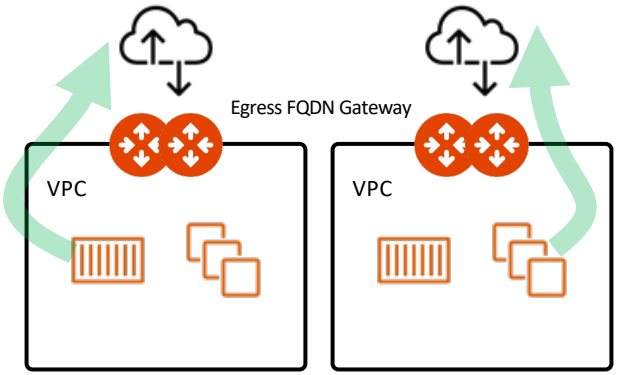
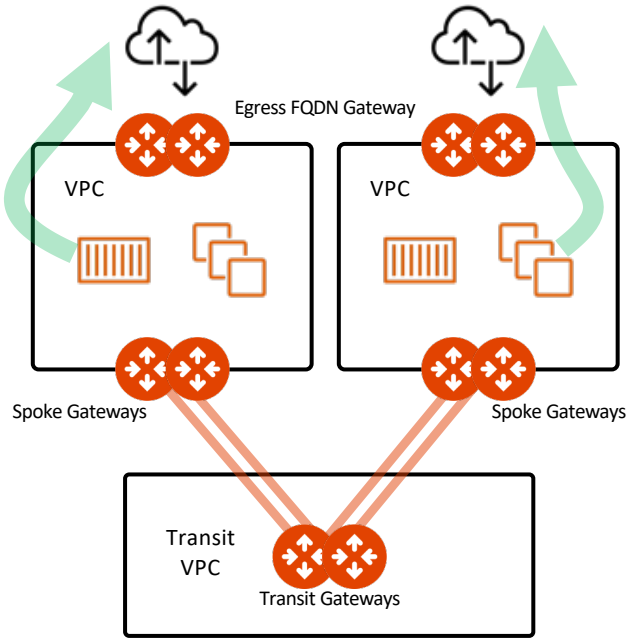
Aviatrix Secure Egress Filtering Design Pattern

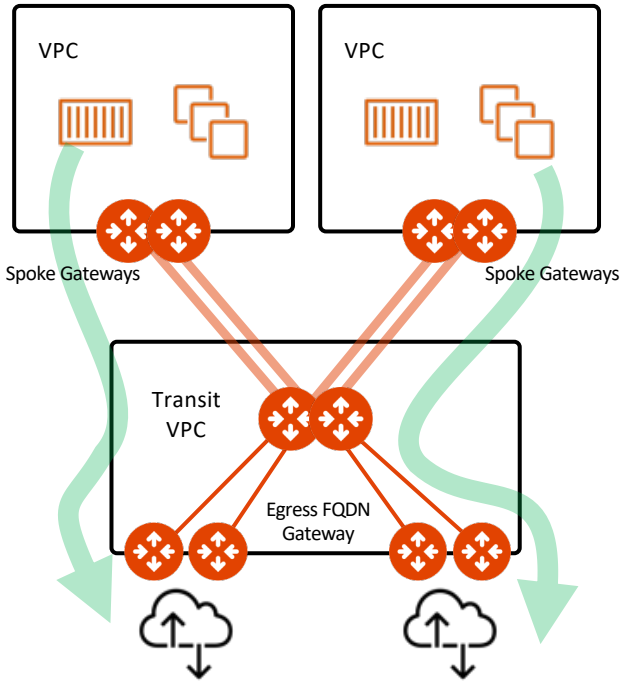
Local Egress FQDN Filtering (Distributed)



Local Egress FQDN Filtering (Distributed) with Aviatrix Transit

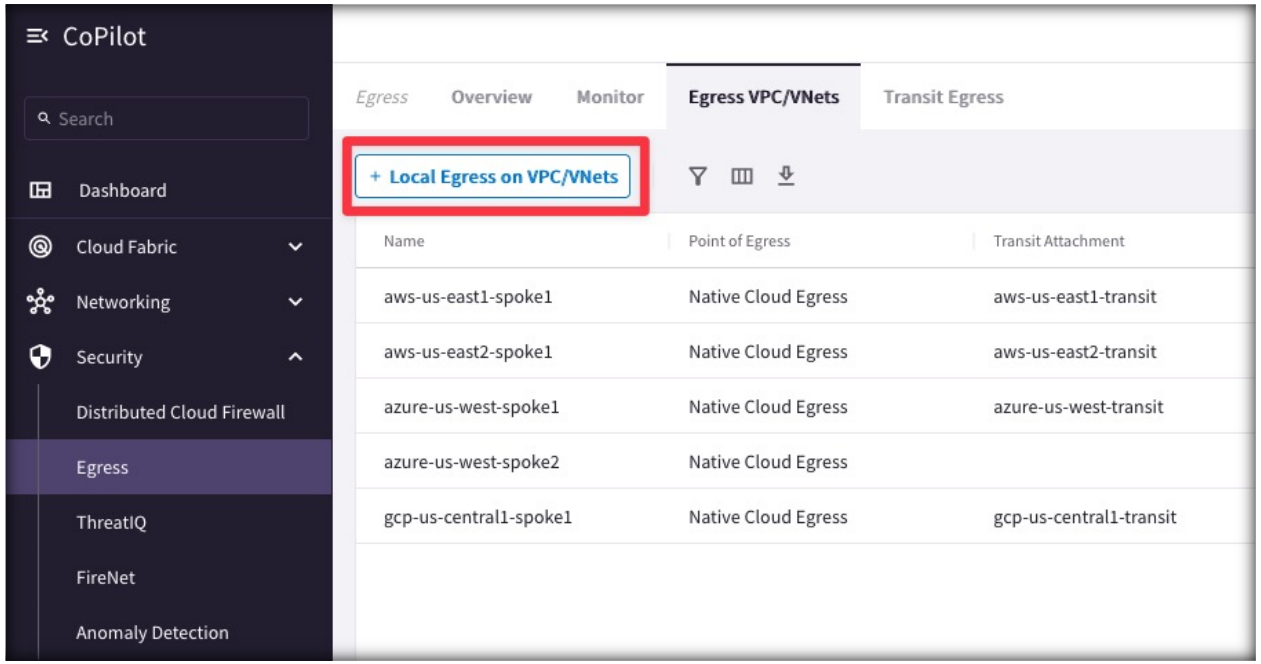


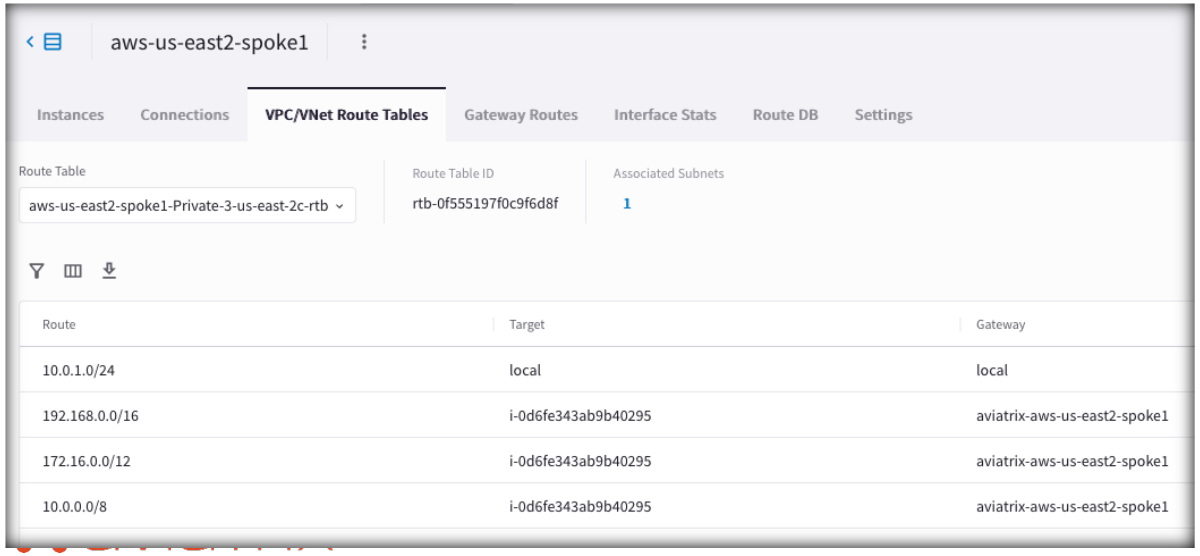
Centralized Egress with Aviatrix Transit

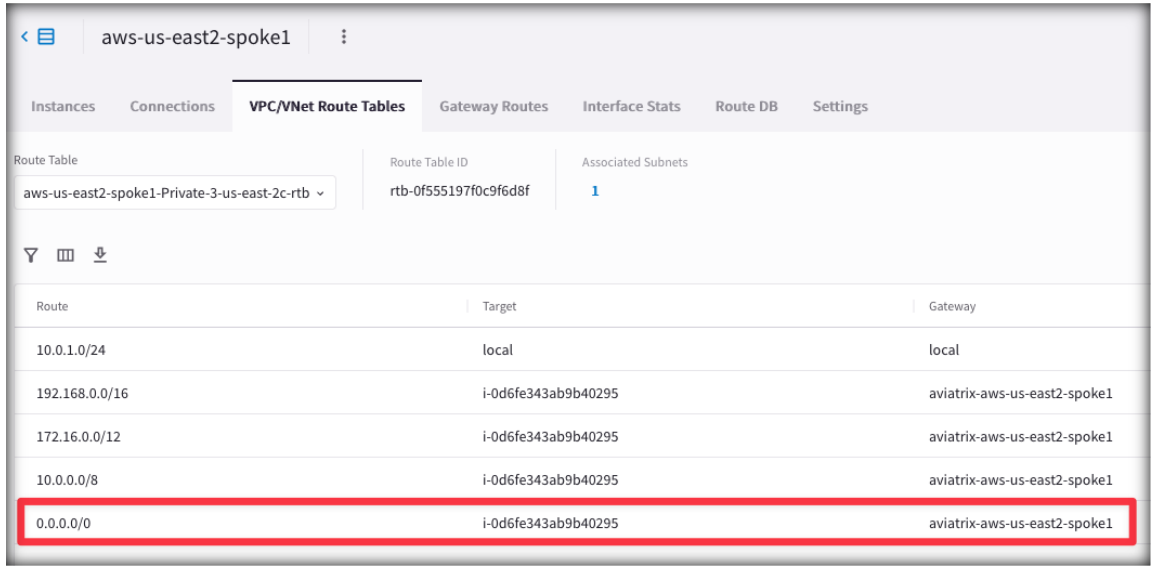


Enable Egress

- Adding Egress Control on VPC/VNet changes the default route on VPC/VNet to point to the Spoke Gateway and enables **SNAT**.
- Egress Control also requires additional resources on the Spoke Gateway.
- In addition to the **Local route**, the **three RFC1918 routes**, also a **default route** will be injected.







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