



Egress FQDN Filtering

Problem Statement

Private workloads need internet access

- SaaS integration



- Patching

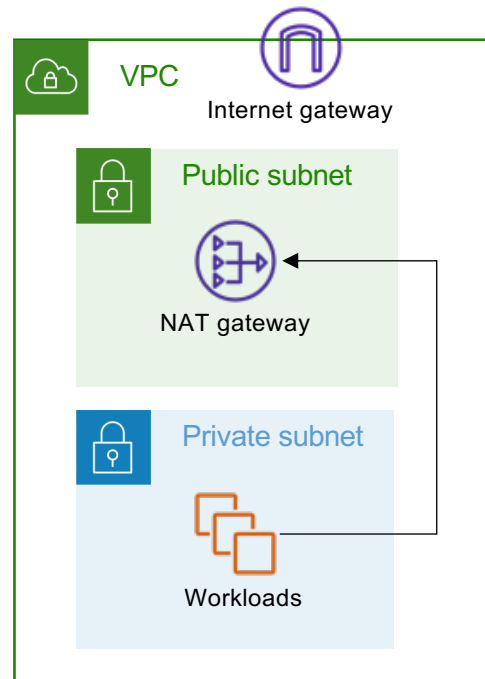


- Updates



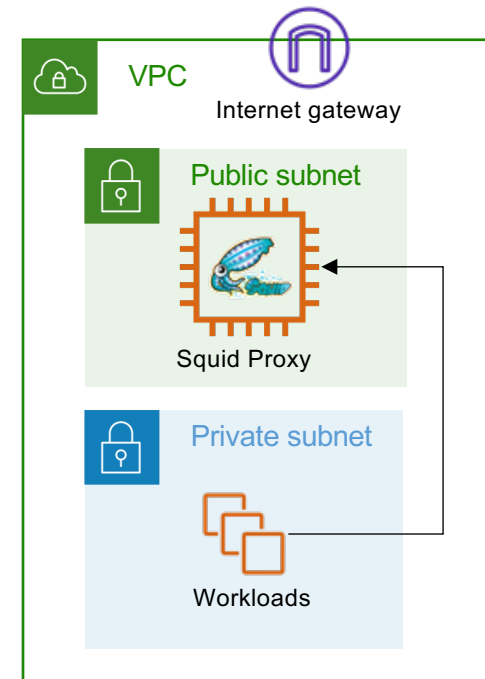
NAT Gateway

- Layer-4 only
- NACLs management



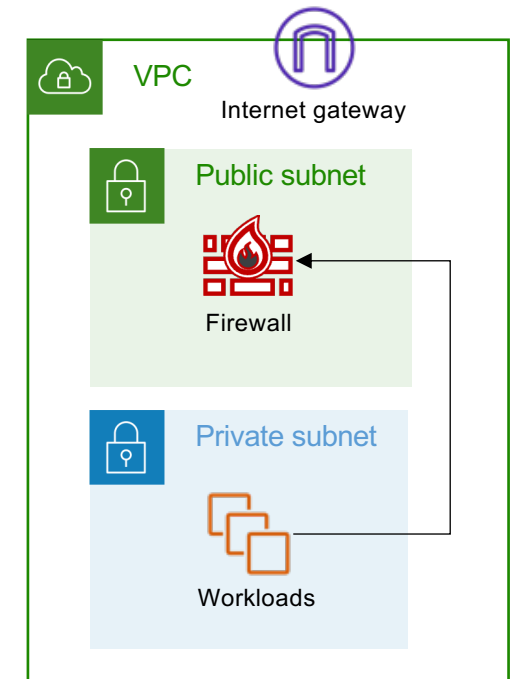
Squid Proxy

- Hard to manage
- Scale and HA issues

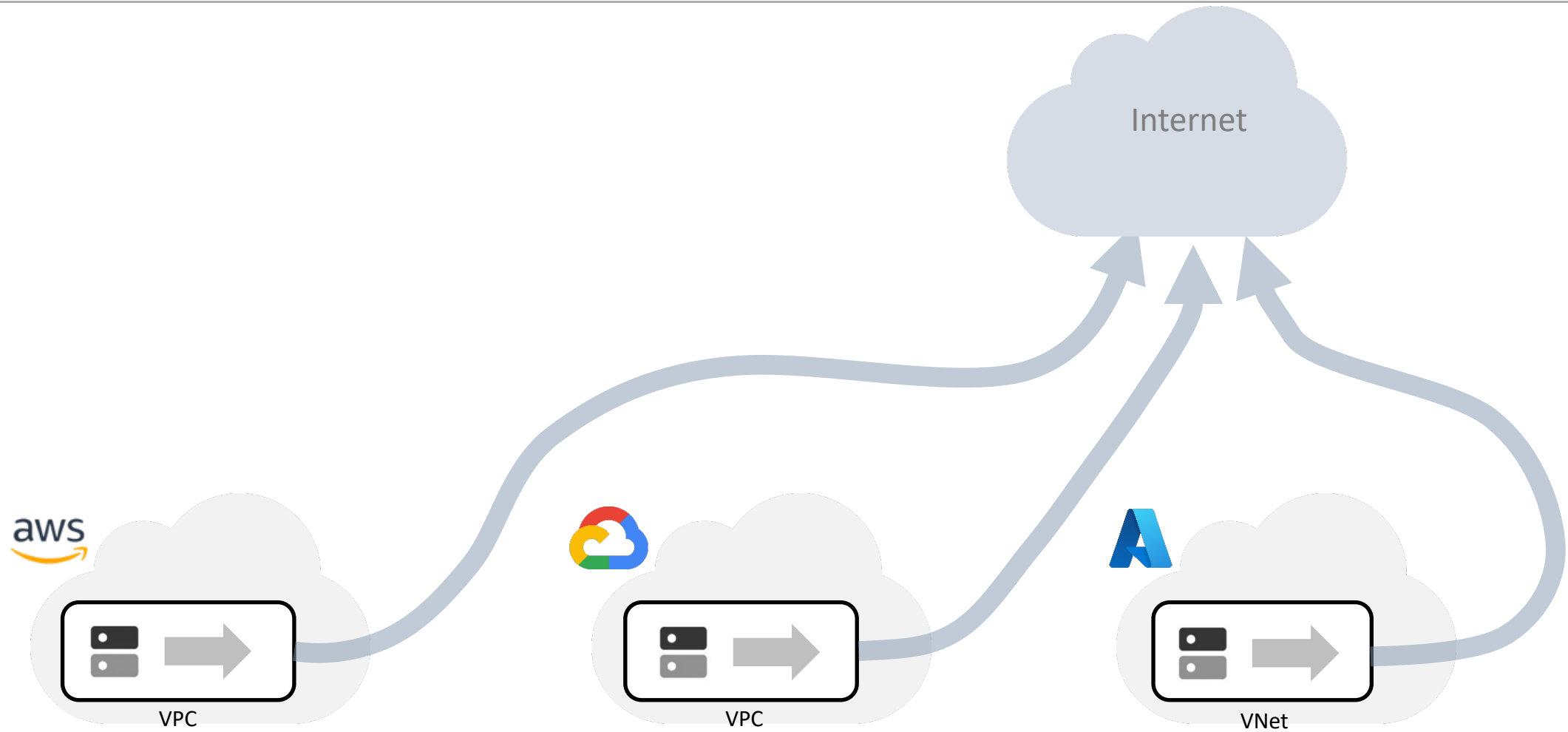


Layer-7 Firewall

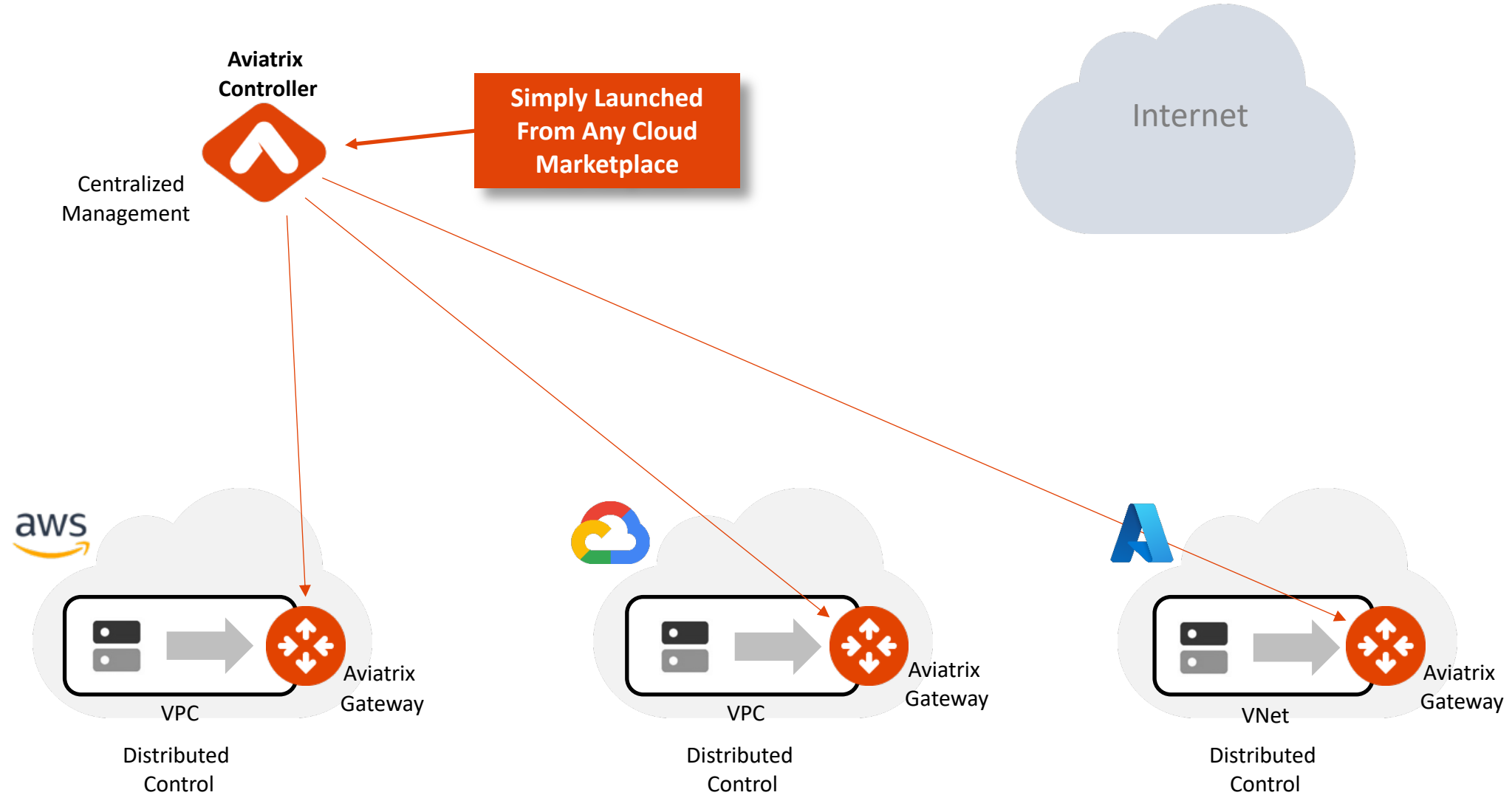
- Overkill
- Expensive



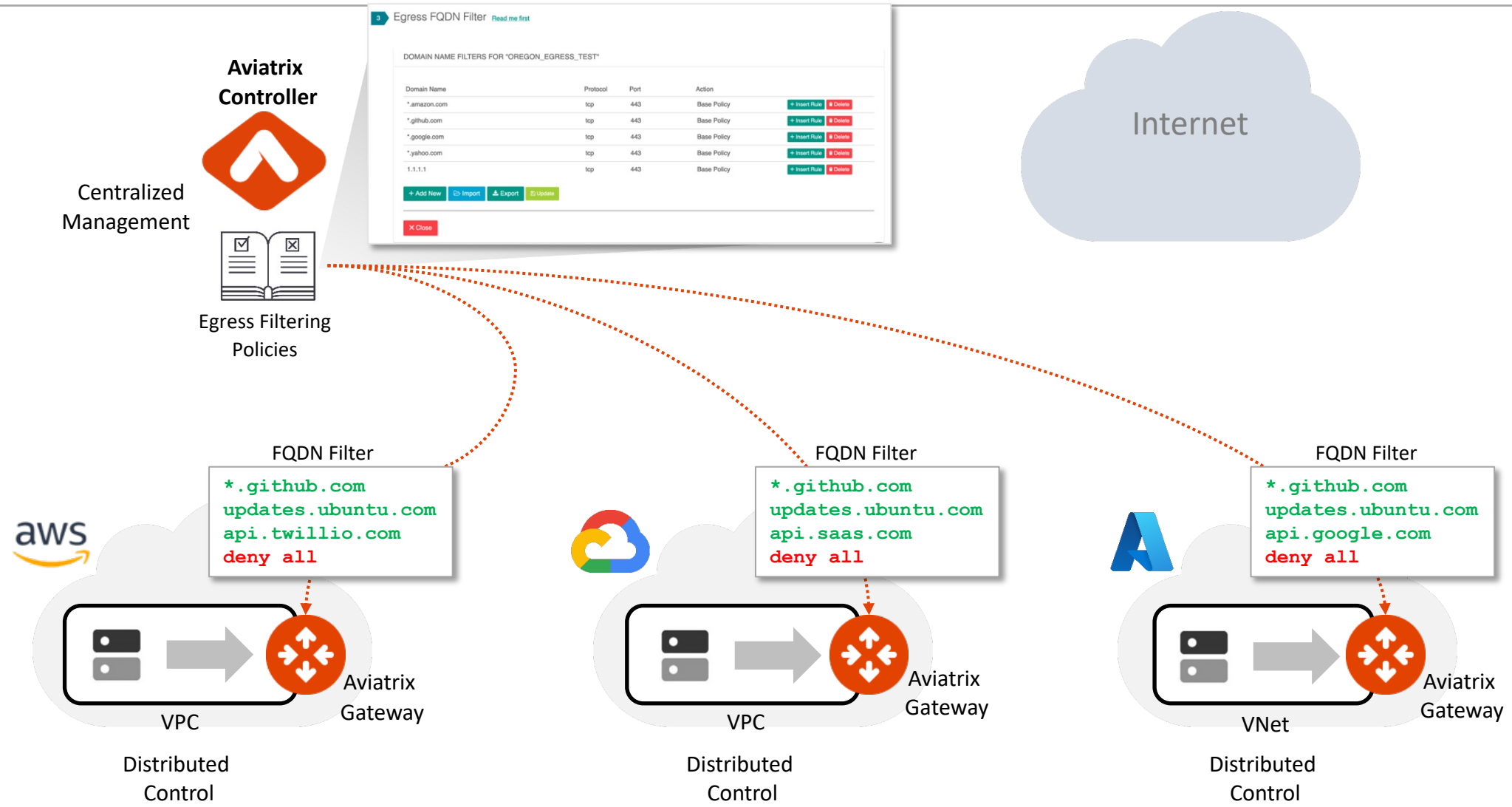
Aviatrix FQDN Egress Filtering



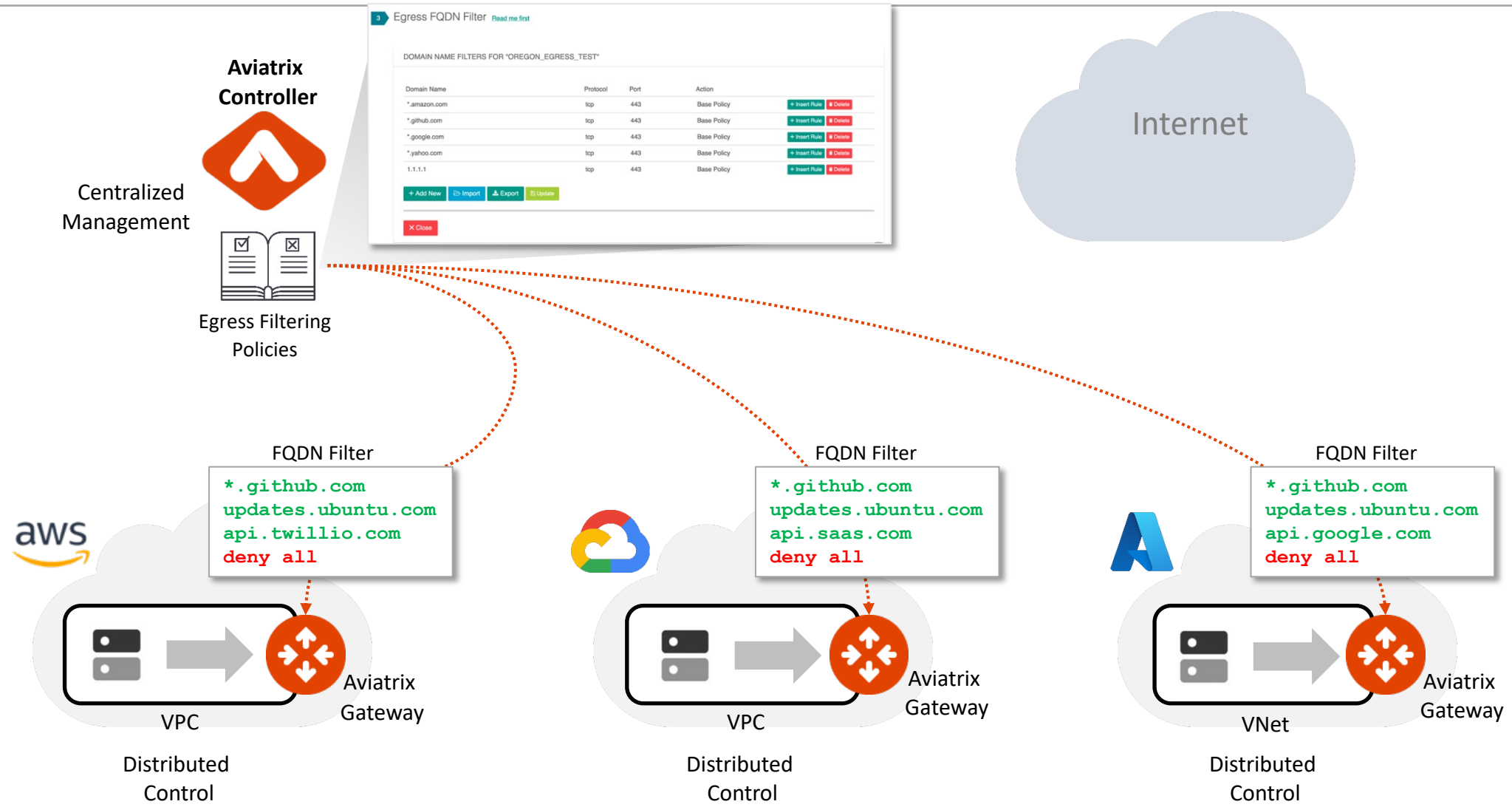
Aviatrix FQDN Egress Filtering



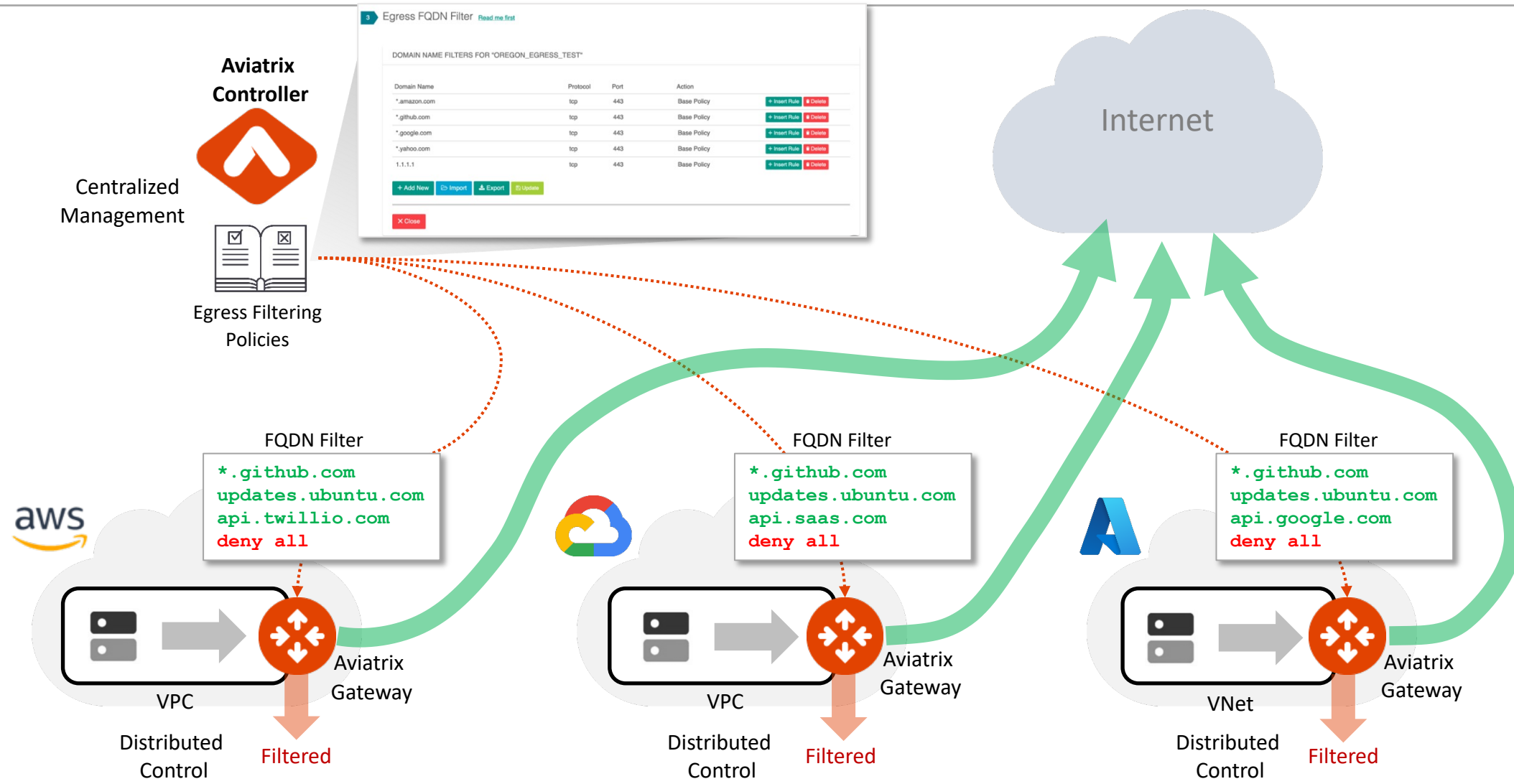
Aviatrix FQDN Egress Filtering



Aviatrix FQDN Egress Filtering

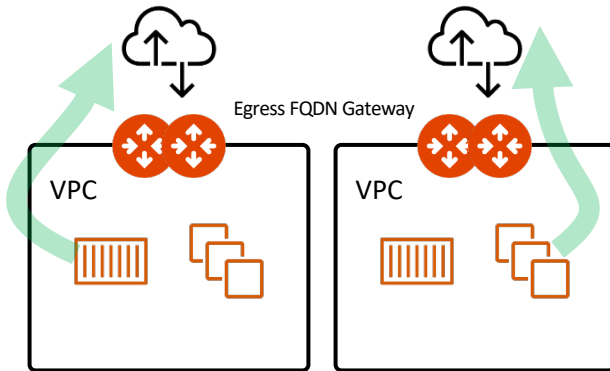


Aviatrix FQDN Egress Filtering

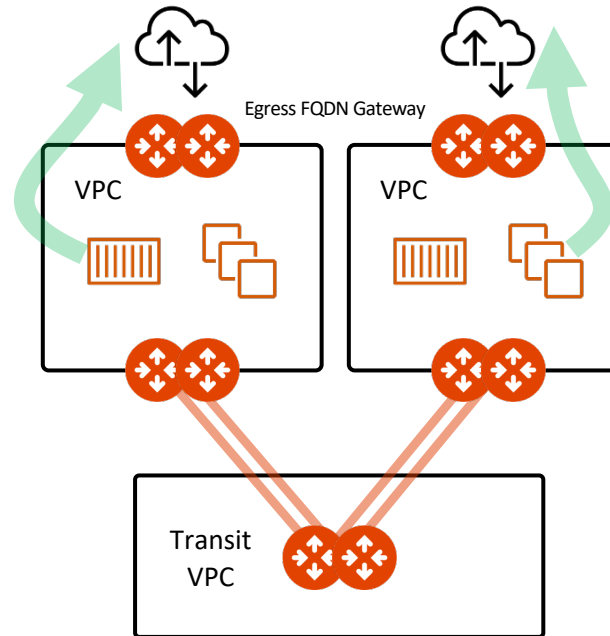


Aviaatrix FQDN Egress Filtering Design Pattern

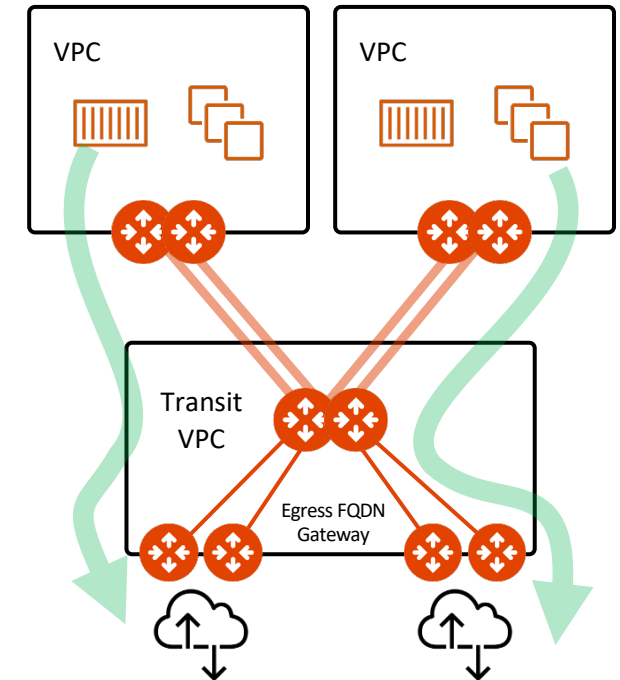
Local Egress FQDN Filtering (Distributed)



Local Egress FQDN Filtering (Distributed) with Aviaatrix Transit



Centralized Egress with Aviaatrix Transit



Zero Touch Network Access

There are two possible models:

- **DENY LIST MODEL** (THREAT-CENTRIC MODEL):
 - ❑ allow all data to flow, except for exactly what you say should be stopped.
- **ALLOW LIST MODEL** (TRUST-CENTRIC MODEL):
 - ❑ deny everything and only permit what you explicitly allow.

Tools for troubleshooting Egress FQDN Filtering

Egress FQDN Filter & Gateway's state

PATH: CONTROLLER > SECURITY > Egress Control

The screenshot displays the Aviatrix Controller interface. The left sidebar shows the navigation menu with 'Egress Control' highlighted under the 'SECURITY' section. The main content area is titled 'Egress FQDN Filter Info' and includes a table of FQDN filters. Below this, there is a section for 'Egress FQDN Gateway View' showing a table of gateway details.

Egress FQDN Filter Info

Exact Match: Disabled | Exception Rule: Enabled | Private Network Filtering: Disabled | Caching: Enabled

NAME	ACTIONS	ALLOWLIST/DENYLIST	STATUS
Allow-All	EDIT ATTACH GATEWAY DETACH GATEWAY LIST GATEWAYS EDIT SOURCE DELETE	<input type="radio"/> Allow <input checked="" type="radio"/> Deny	Enabled
Allowed-Sites	EDIT ATTACH GATEWAY DETACH GATEWAY LIST GATEWAYS EDIT SOURCE DELETE	<input checked="" type="radio"/> Allow <input type="radio"/> Deny	Enabled

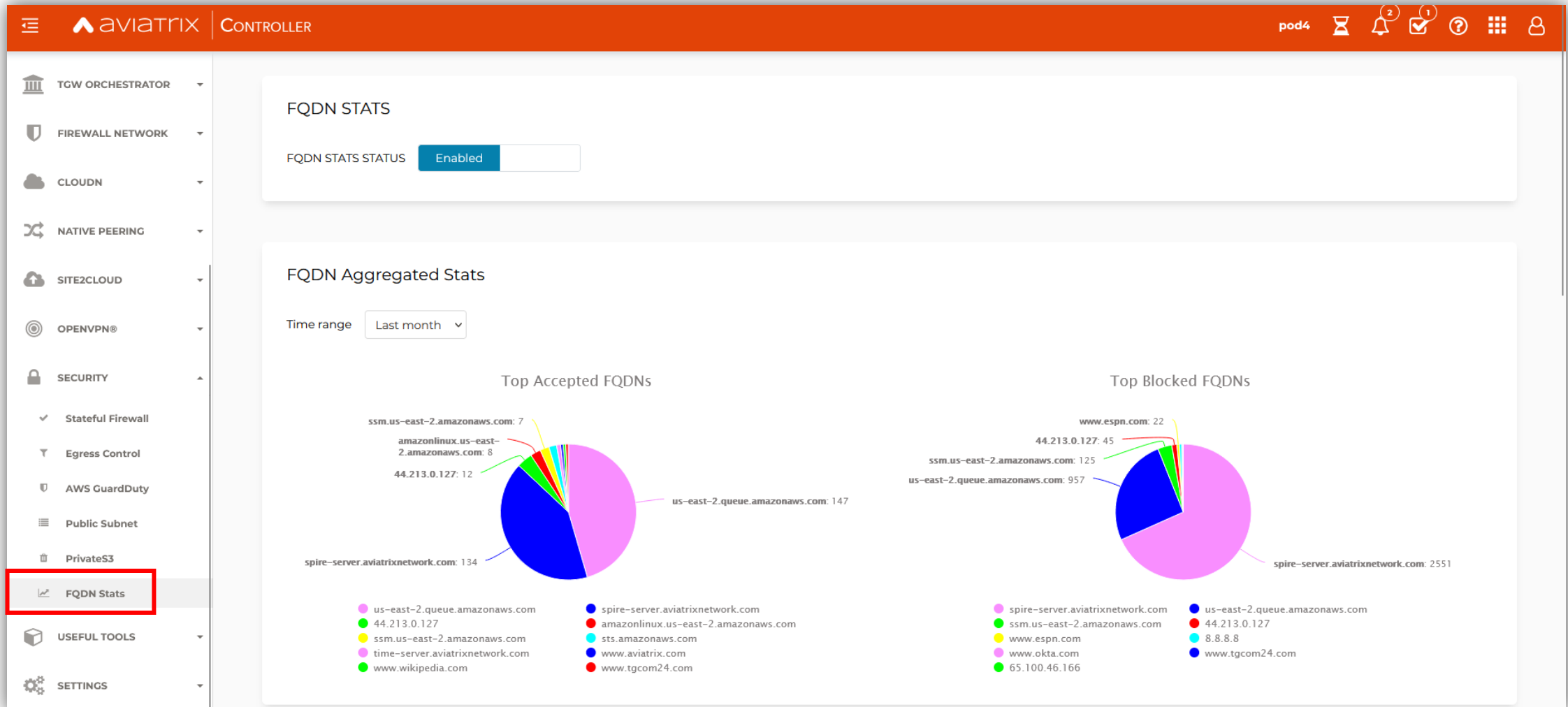
Egress FQDN Gateway View

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Name	State	Size	Region	Egress Control	FQDN Tags
aws-us-east2-spoke1-egress-agw	up	t3.small	us-east-2	Enabled	Allow-All

FQDN Stats

PATH: CONTROLLER > SECURITY > FQDN Stats





Next:

Lab 7 Egress FQDN