



Cloud Perimeter Security (Secure Cloud Egress)

AVIATRIX DCF FOR SECURE CLOUD EGRESS

Problem Statement

Private workloads need internet access

- SaaS integration



- Patching

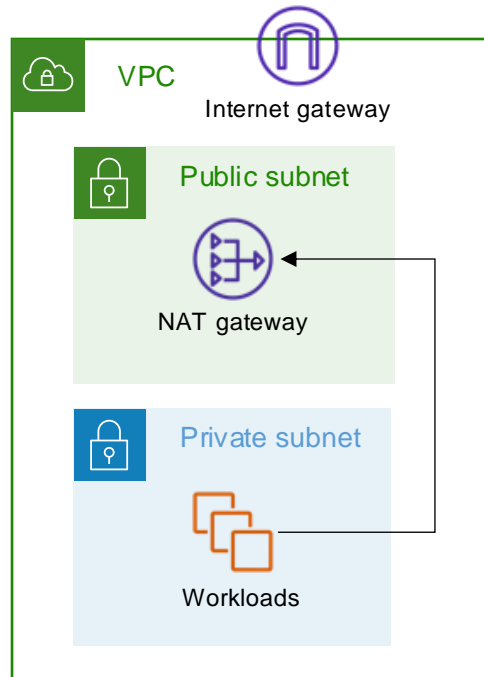


- Updates



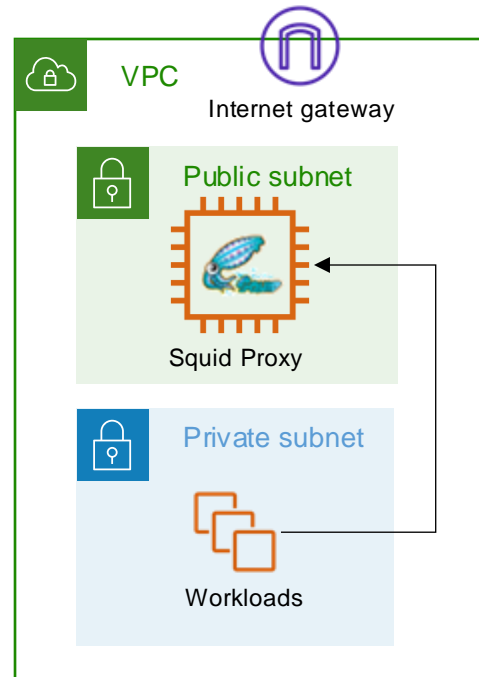
NAT Gateway

- NACLs are necessary
- Unrestricted access



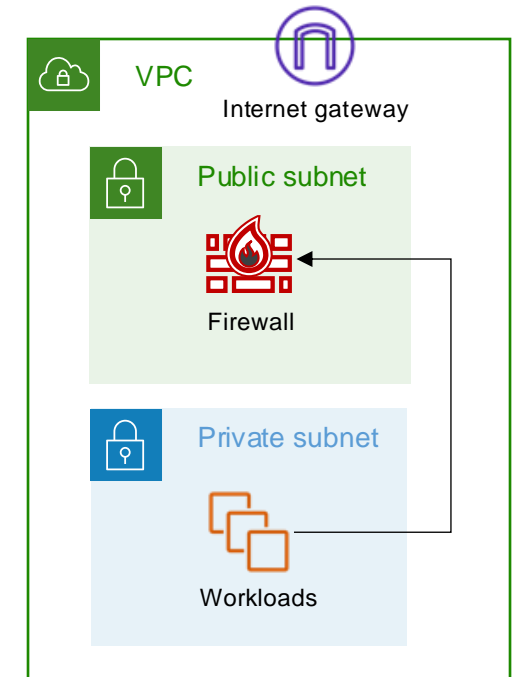
Squid Proxy

- Hard to manage
- Scale and HA issues

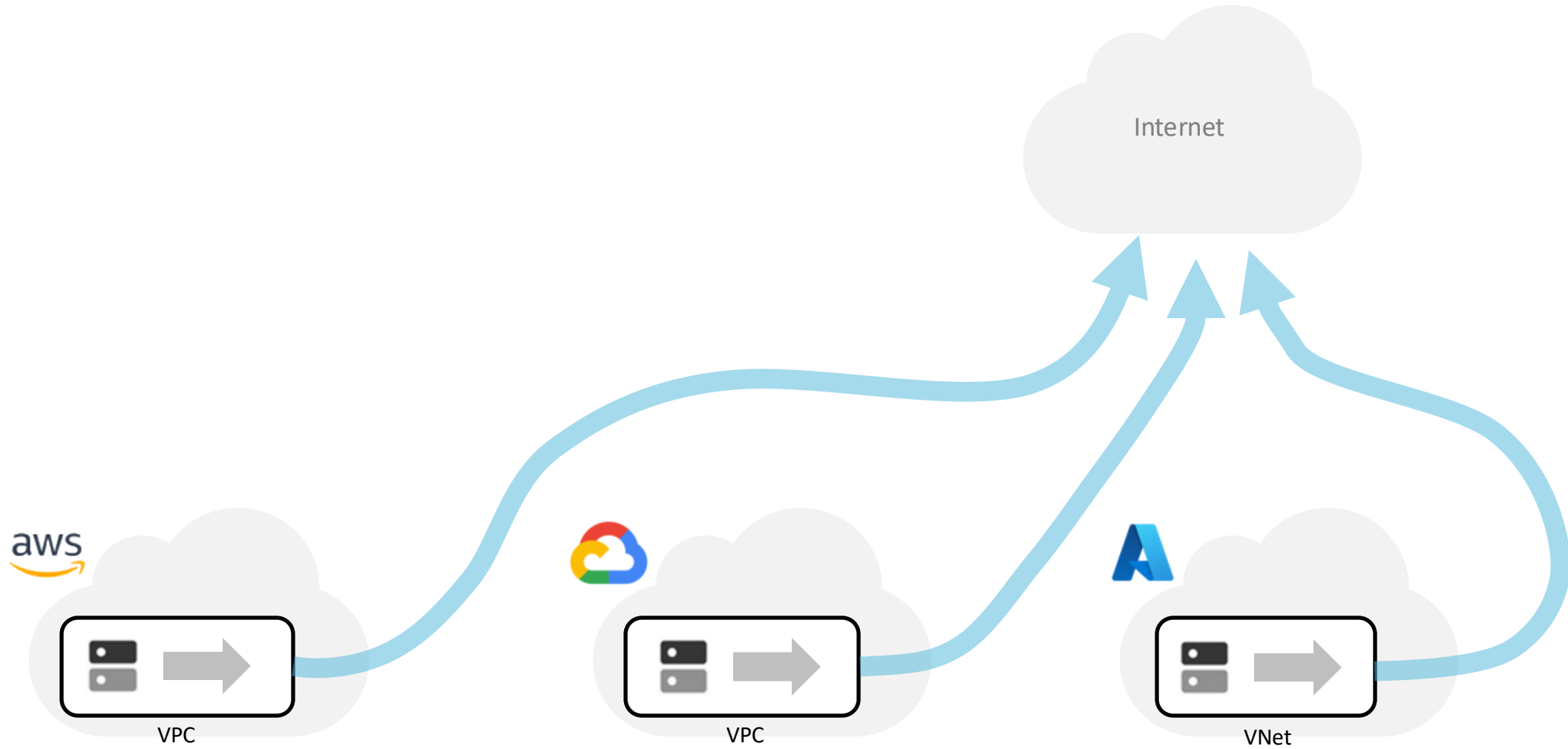


Layer-7 Firewall

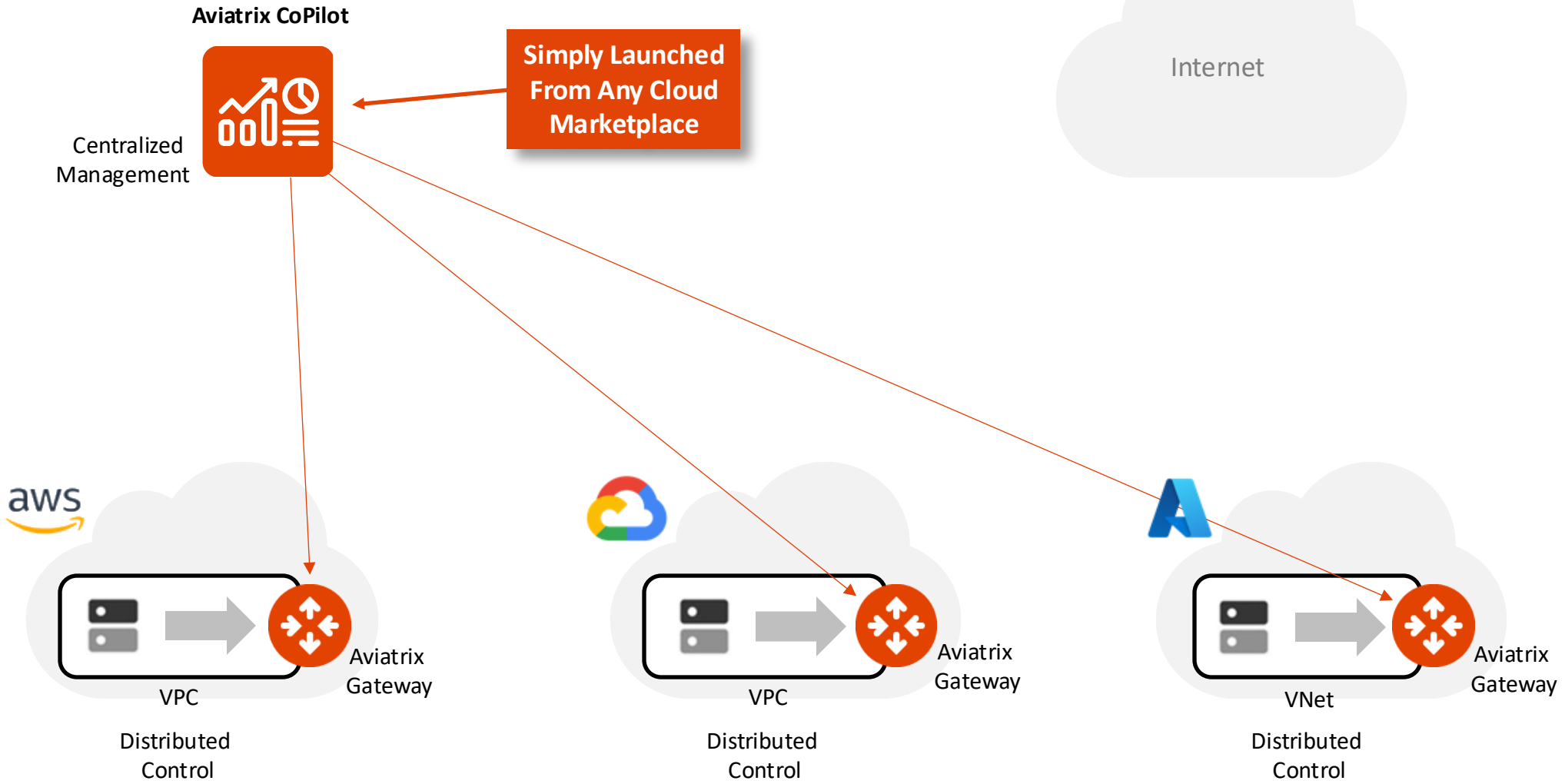
- Overkill
- Expensive



Aviatrix Cloud Perimeter Security



Aviatrix Cloud Perimeter Security



⚠ 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

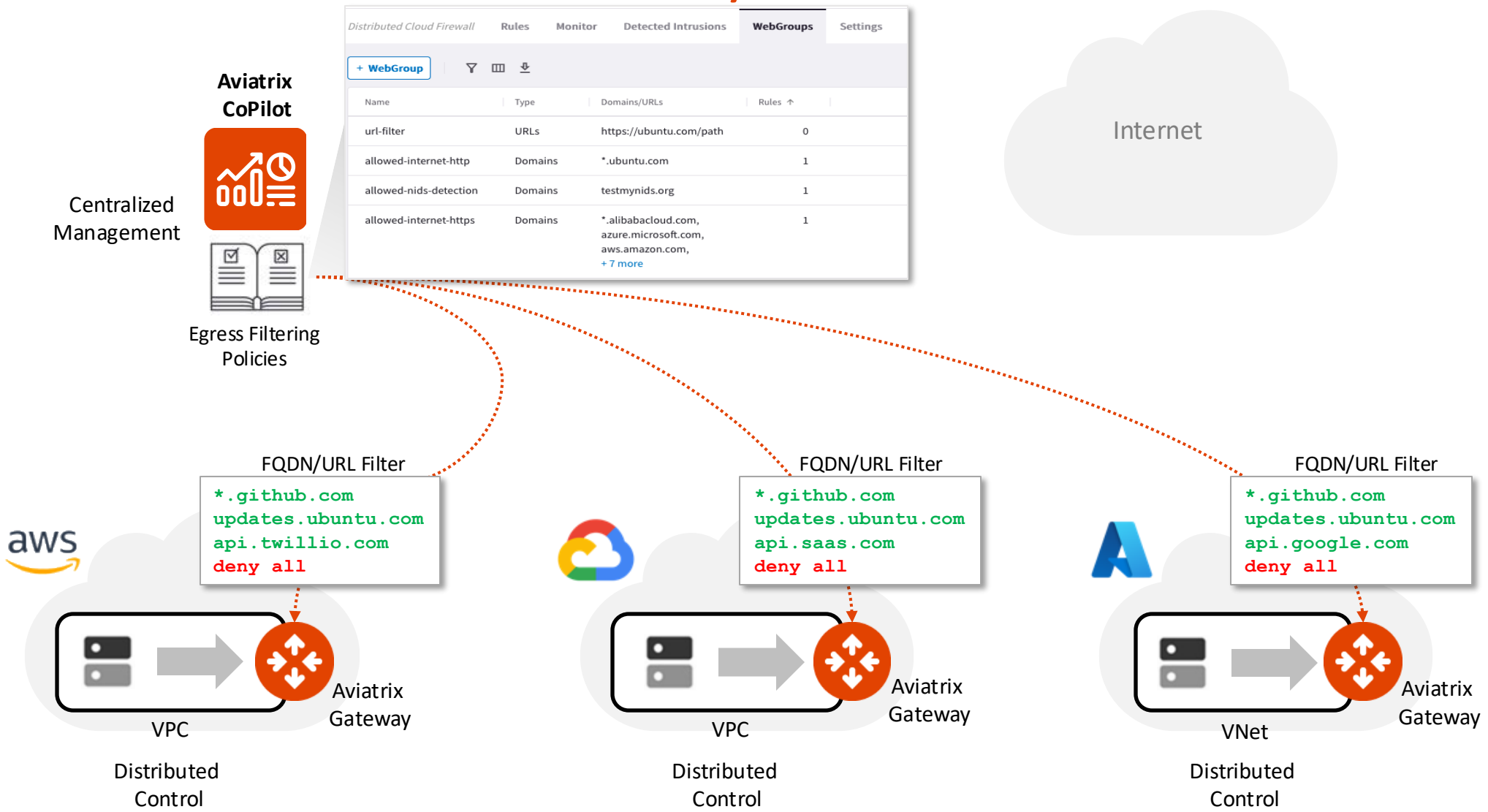
[+ Rule](#)

Actions

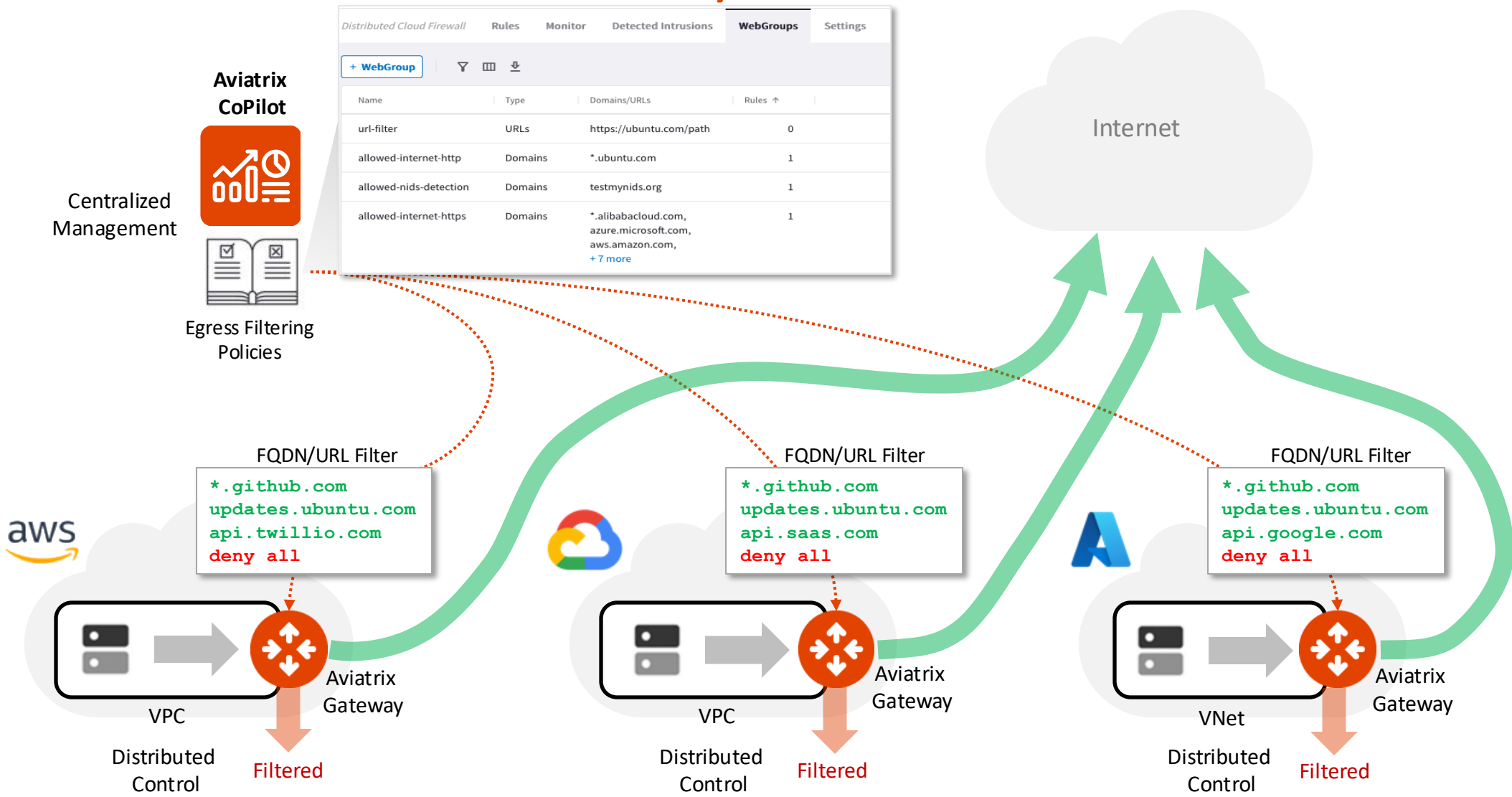


<input type="checkbox"/>	Priority	Name	Source	Destination	WebGroup	Protocol	Ports	Action	SG Orchest...	Decryption	IDS	
<input type="checkbox"/>	0	allow-internet-http	rfc1918	Public Internet	allowed-internet-http, allowed-nids-detection	TCP	80	Permit	On		On	↑↓ ✎ ⋮
<input type="checkbox"/>	100	allow-internet-https	rfc1918	Public Internet	allowed-internet-https	TCP	443	Permit	On			↑↓ ✎ ⋮

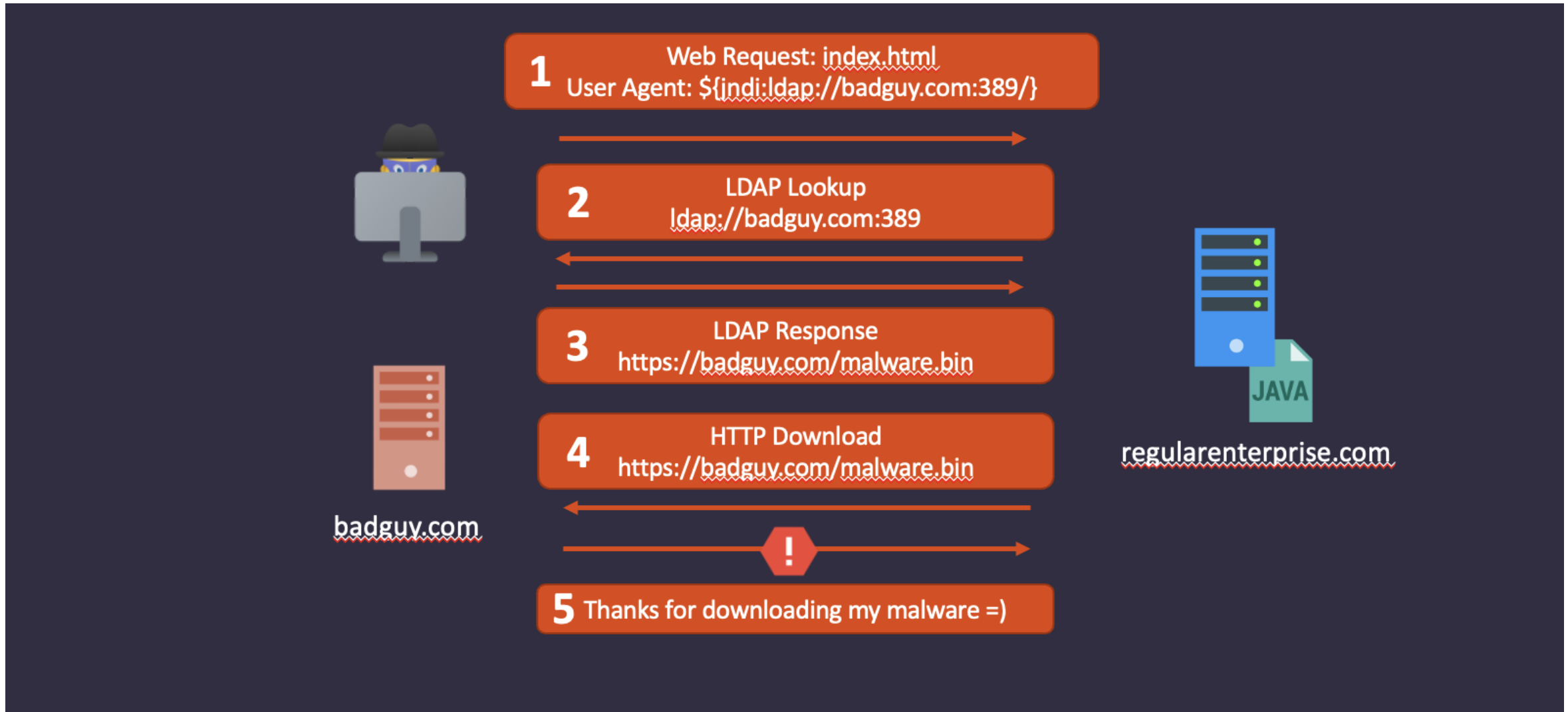
Aviatrix Cloud Perimeter Security



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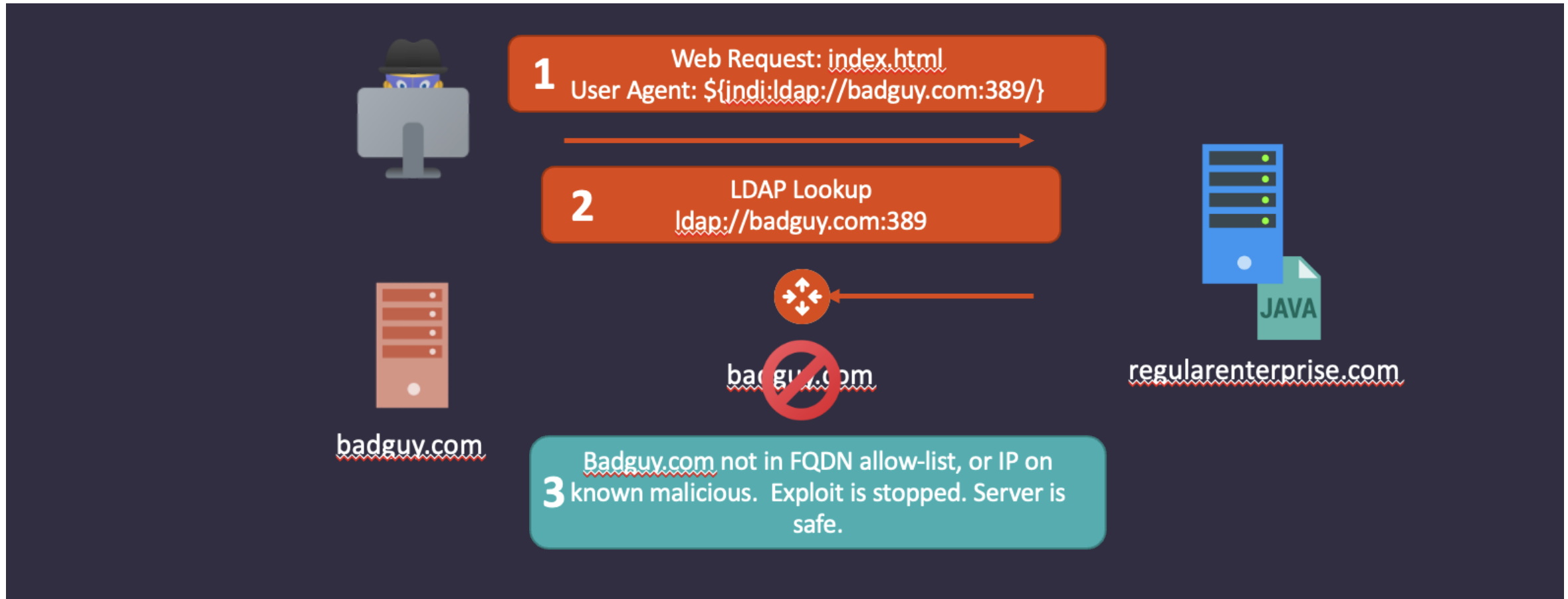


Cloud Perimeter Security – Stopping Malicious Attack

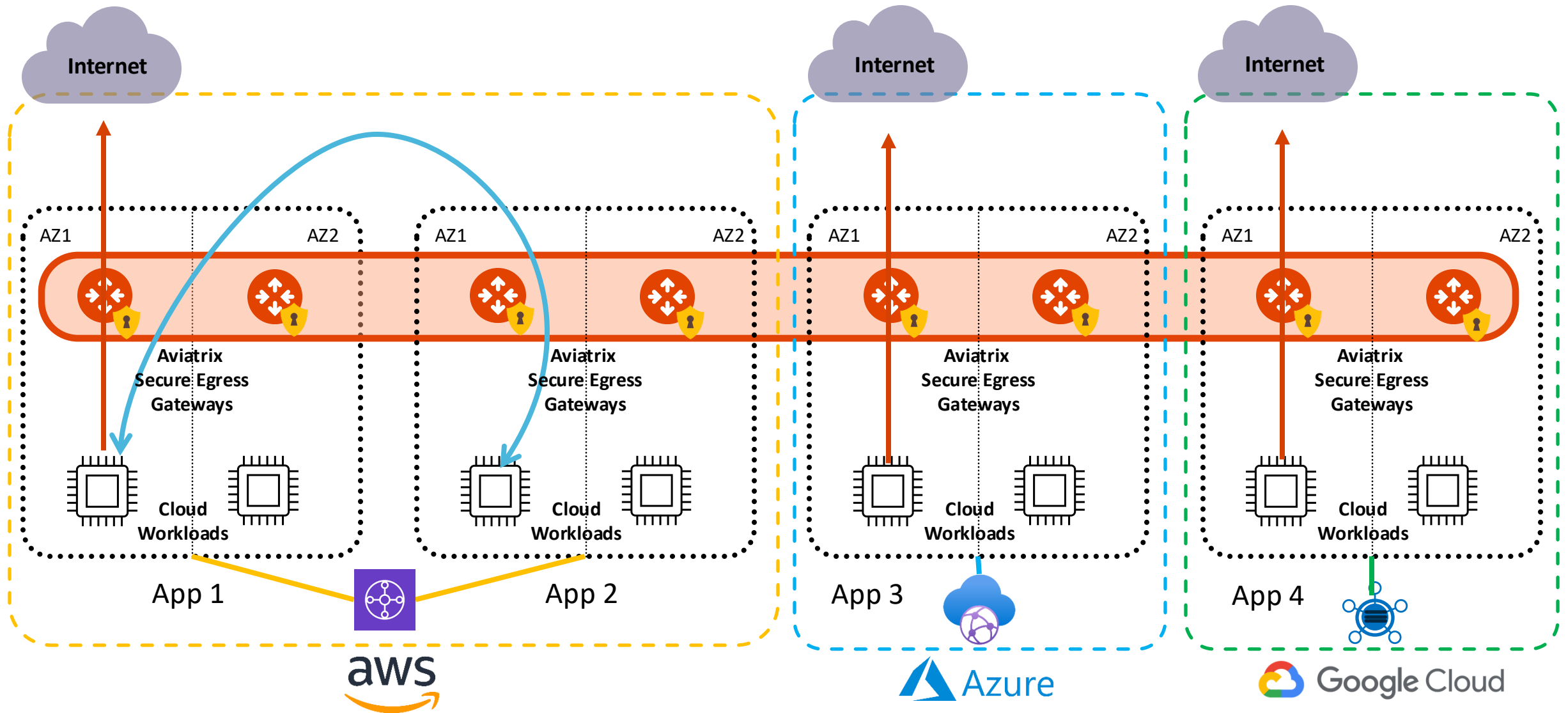


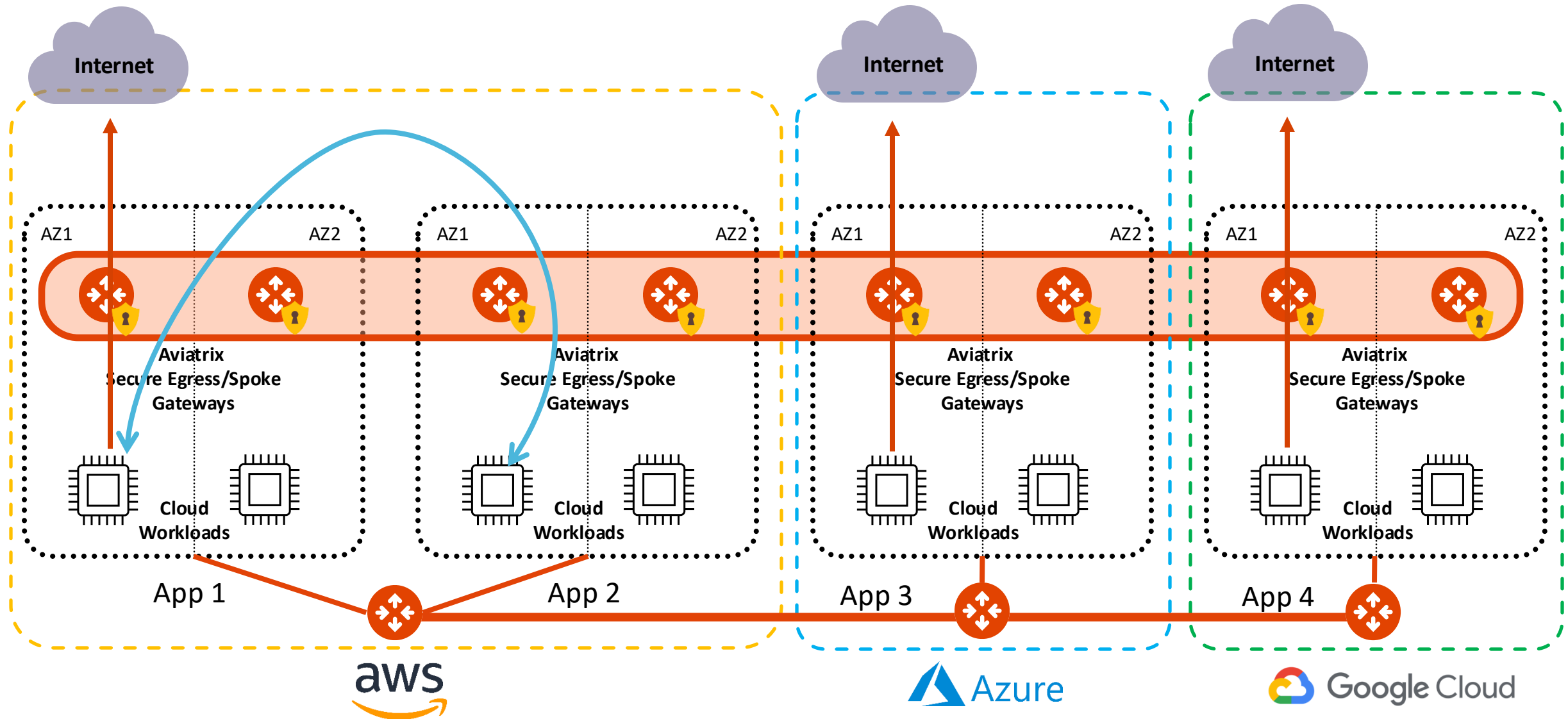
Log4J Example

Cloud Perimeter Security – Stopping Malicious Attack



Log4J Example

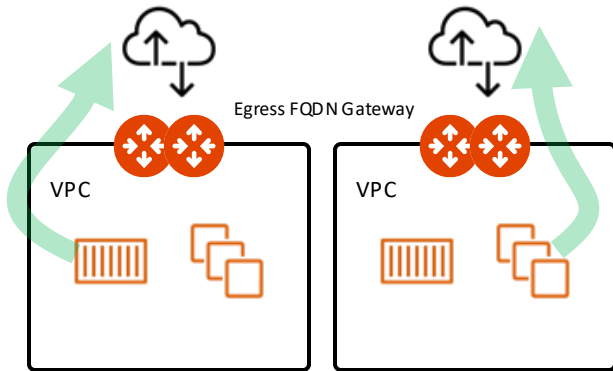




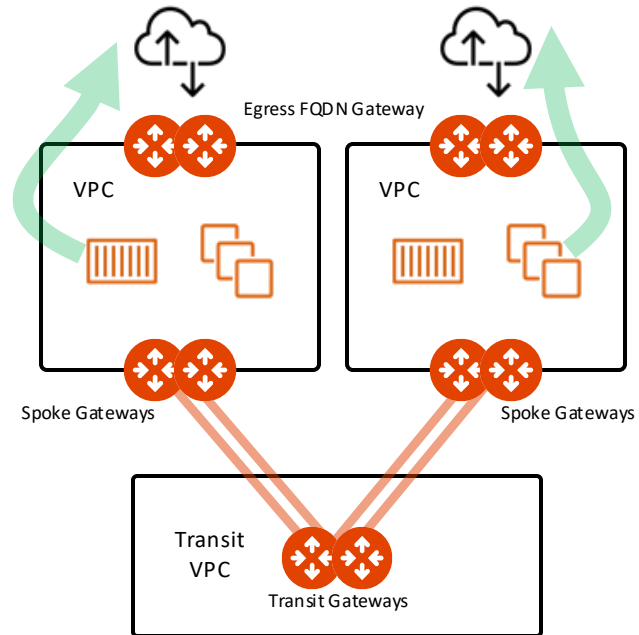
Aviatrix Secure Cloud Egress Filtering Design Pattern



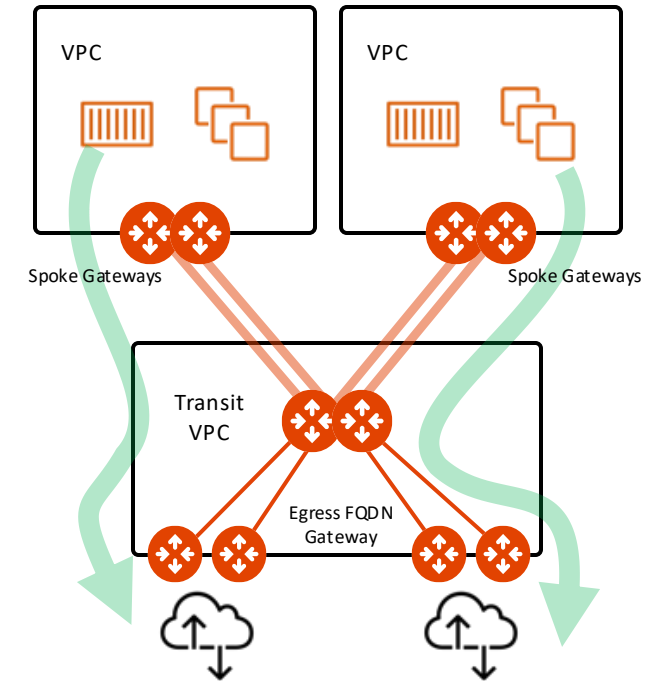
Local Egress FQDN Filtering (Distributed)



Local Egress FQDN Filtering (Distributed) with Aviatrix Transit



Centralized Egress with Aviatrix Transit



Monitor



- On the Monitor section you can retrieve all the logs and therefore distinguish the domains that should be permitted from those ones that should be denied.
- Best Practice: *The Discovery Process* should be used only temporarily. As soon as you have completed your discovery, kindly proceed to activating the *Allow-List model* (i.e. *ZTN approach*).

EgressOverview**Monitor**Egress VPC/VNetsTransit Egress

^ Filters

Time Period

Last 24 Hours

Start

Dec 5, 2023 10:40 AM

End

Now

VPC/VNets

aws-us-east-2-spoke1

TimestampSource IPVPC/VNetDomainPortRule MatchAction

Dec 6, 2023 10:40 AM10.0.1.10aws-us-east-2-spoke1esm.ubuntu.com443MatchedAllowed

Dec 6, 2023 10:40 AM10.0.1.10aws-us-east-2-spoke1security.ubuntu.com80MatchedAllowed

Dec 6, 2023 10:40 AM10.0.1.10aws-us-east-2-spoke1us-east-2.ec2.archive.ubuntu.com80MatchedAllowed

Dec 6, 2023 10:40 AM10.0.1.10aws-us-east-2-spoke1us-east-2.ec2.archive.ubuntu.com80MatchedAllowed

Dec 6, 2023 10:40 AM10.0.1.10aws-us-east-2-spoke1us-east-2.ec2.archive.ubuntu.com80MatchedAllowed

Dec 6, 2023 10:39 AM10.0.1.10aws-us-east-2-spoke1www.football.com80MatchedAllowed

Dec 6, 2023 10:39 AM10.0.1.10aws-us-east-2-spoke1www.espn.com80MatchedAllowed

Dec 6, 2023 10:39 AM10.0.1.10aws-us-east-2-spoke1www.wikipedia.com80MatchedAllowed

Dec 6, 2023 10:39 AM10.0.1.10aws-us-east-2-spoke1www.aviatrix.com80MatchedAllowed

Top Rules Hit

www.wikipedia.com (80)3

www.football.com (80)3

www.espn.com (80)3

www.aviatrix.com (80)3

us-east-2.ec2.archive.ubuntu.com (80)3

security.ubuntu.com (80)1

esm.ubuntu.com (443)1

13

Cloud Perimeter Security - Demo





Aviatrix Certified Engineer (ACE)
<https://aviatrix.com/ACE>



COMMUNITY
<https://community.aviatrix.com>