



Secure Egress

ACE Solutions Architecture Team

Problem Statement



Private workloads need internet access

SaaS integration



Patching

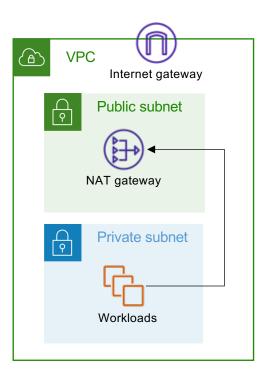


Updates



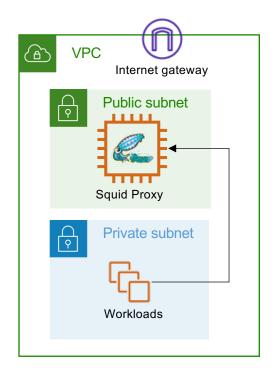
NAT Gateway

- Layer-4 only
- NACLs management



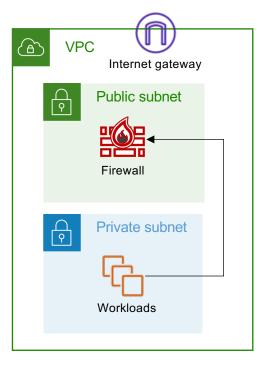
Squid Proxy

- Hard to manage
- Scale and HA issues



Layer-7 Firewall

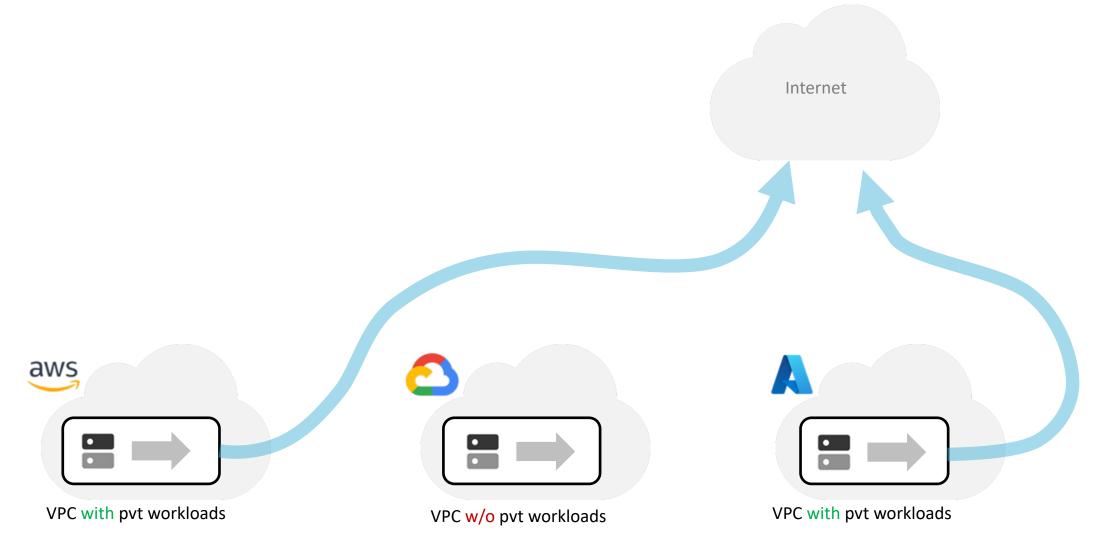
- Overkill
- Expensive





Aviatrix Secure Egress Filtering Feature

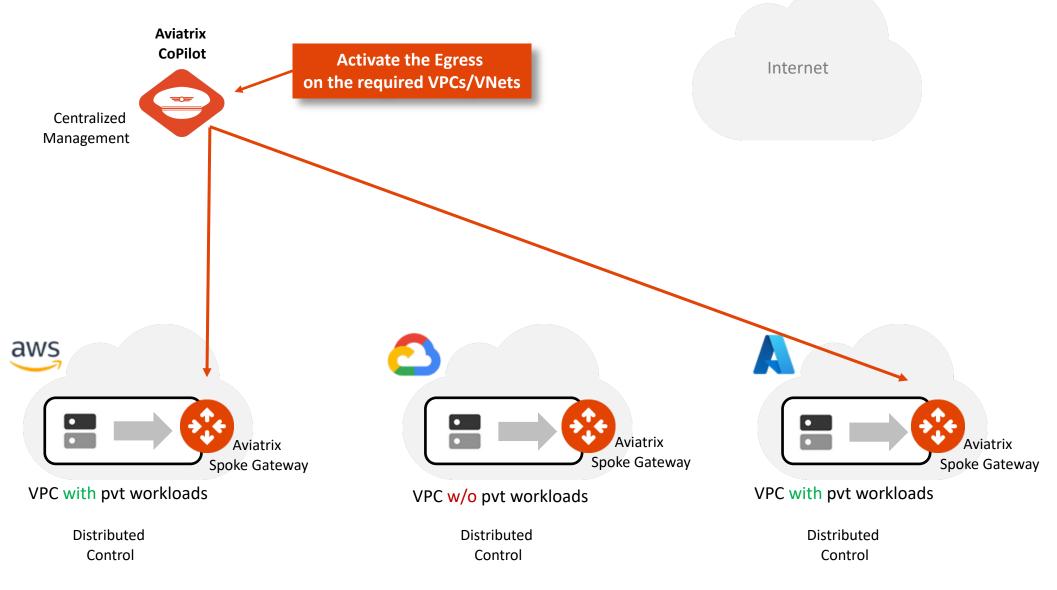






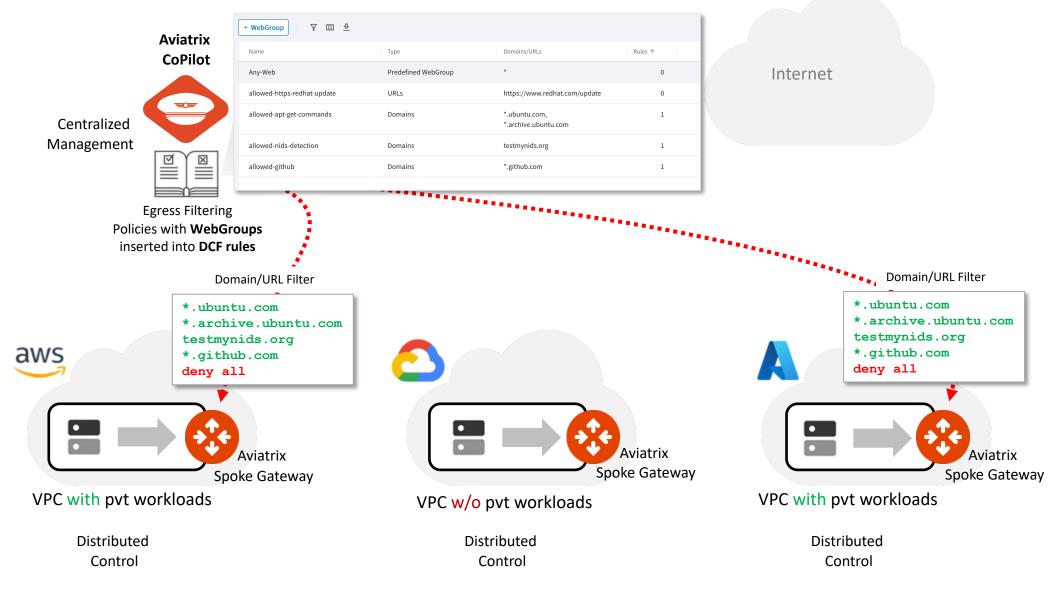
Aviatrix Secure Egress Filtering





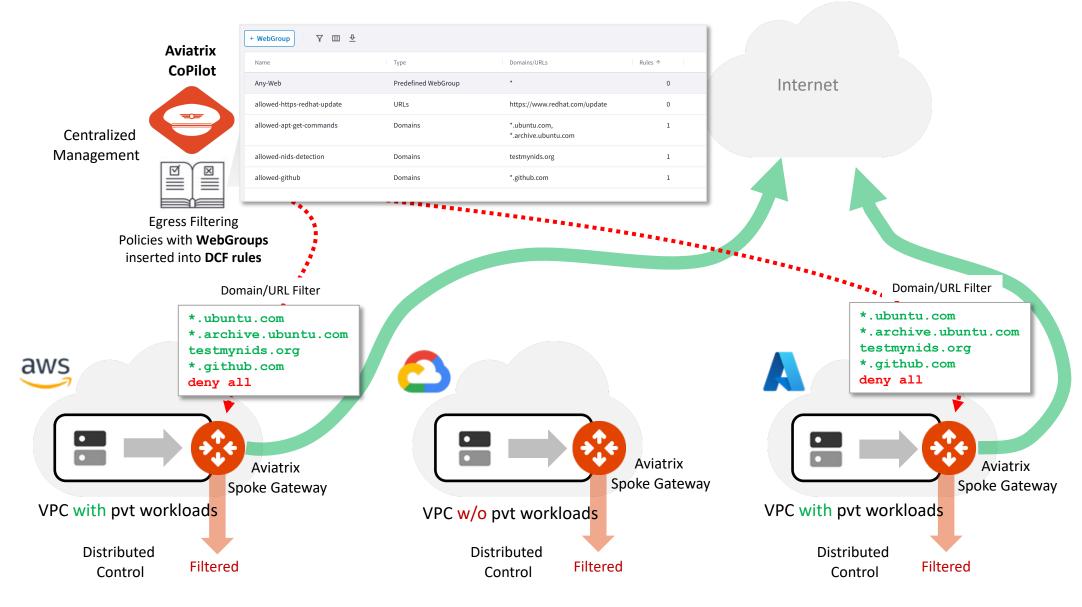
Aviatrix Secure Egress Filtering





Aviatrix Secure Egress Filtering

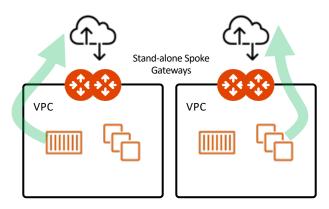




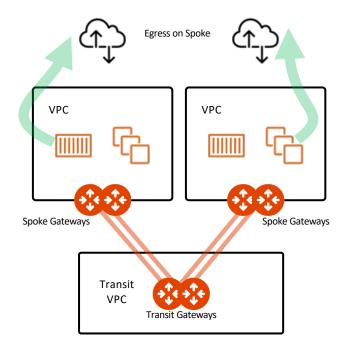
Aviatrix Secure Egress Filtering Design Patterns



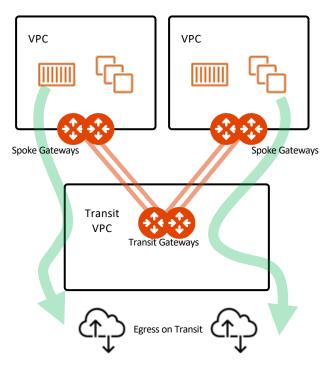
Stand-alone Spoke GW (Distributed)



Local Egress (Distributed) with Aviatrix Spoke GW



Centralized Egress with Aviatrix Transit GW



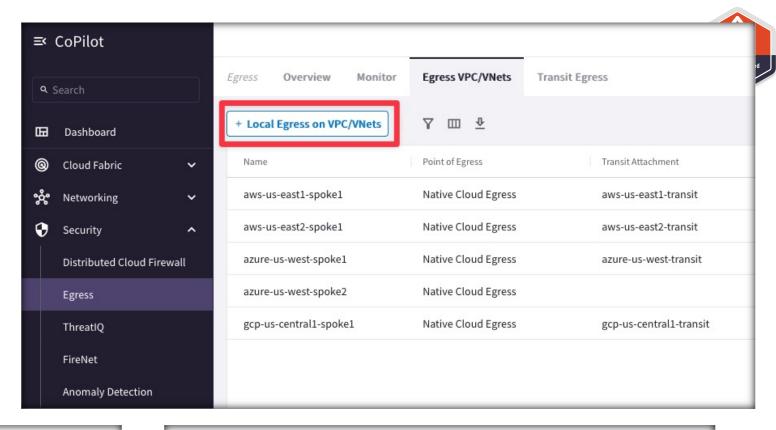


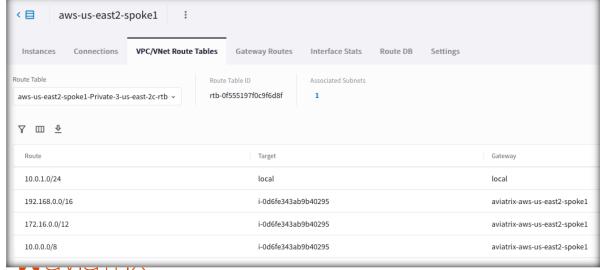


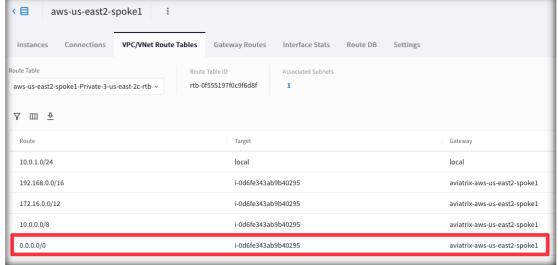
Tools for Troubleshooting Secure Egress

Enabling 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 <u>requires additional</u>
 <u>resources</u> on the Spoke Gateway (i.e. scale up
 the VM size).
- In addition to the Local route, the three
 RFC1918 routes, also a default route will be injected.

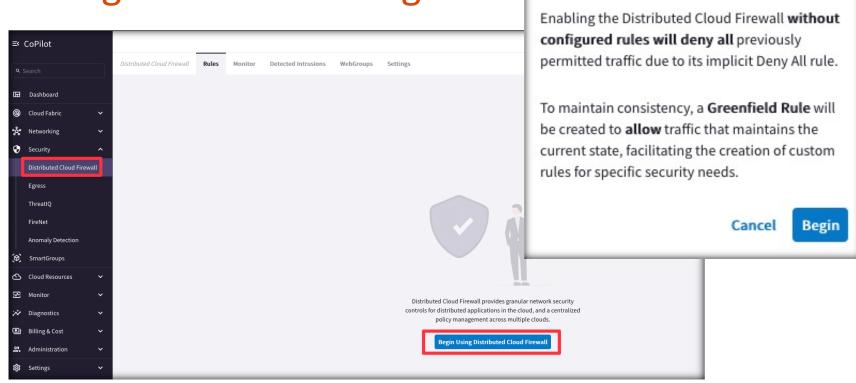




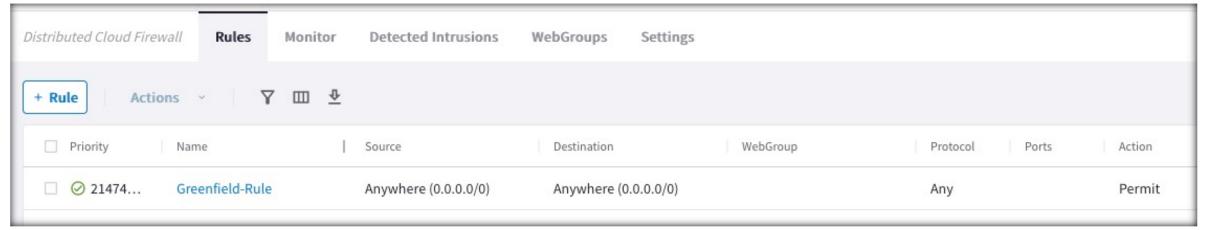


Adding Filtering/Monitoring feature to the Egress

- The Egress control is part of the Distributed Cloud Firewall service.
- The Egress control requires the activation of the Distributed Cloud Firewall.
- The Greenfield-Rule is automatically added to allow all kind of traffic.



Distributed Cloud Firewall

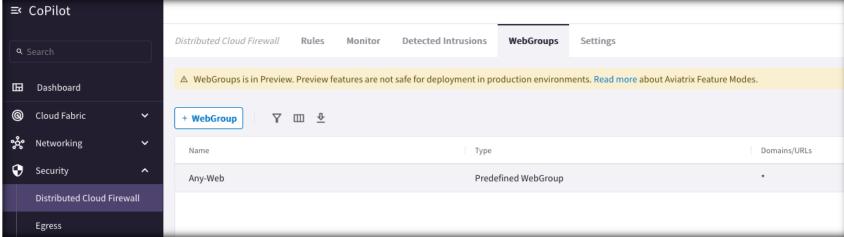


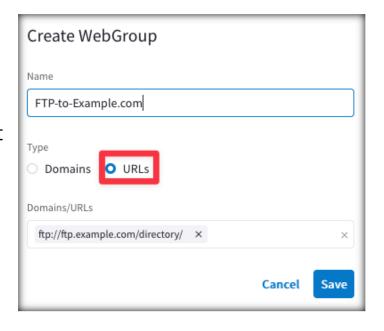
WebGroup Creation

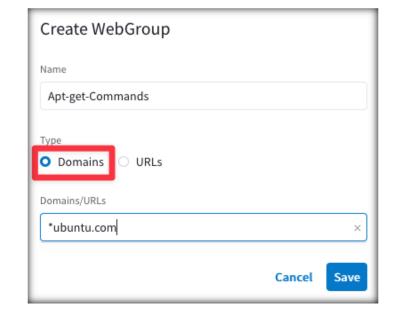
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- WebGroups are groupings of domains and URLs, inserted into <u>Distributed Cloud Firewall</u> rules, that filter (and provide security to) Internet-bound traffic.
- When you navigate to Security >
 Distributed Cloud Firewall >
 WebGroups, a predefined
 WebGroup, Any-Web, has already
 been created for you,
- This is an "allow-all" WebGroup that you must select in a Distributed Cloud Firewall rule if you do not want to limit the Internet-bound traffic for that rule, but you still want to log the FQDNs that are being accessed.





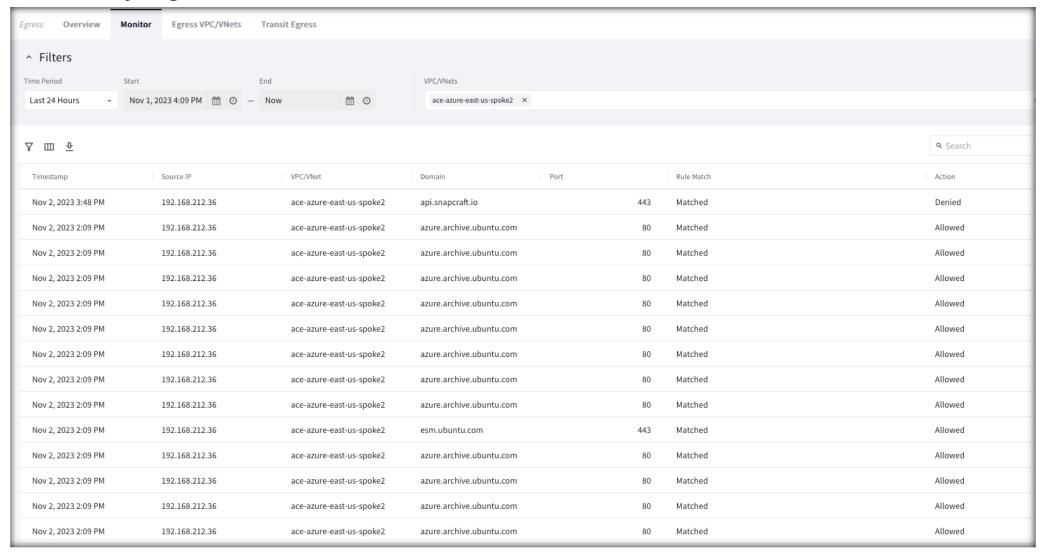




Monitor



CoPilot > Security > Egress > Monitor







Next:

Lab 7 Secure Egress

