



Aviatrix Cloud Firewall



Cloud Perimeter Security Basics

SaaS integration

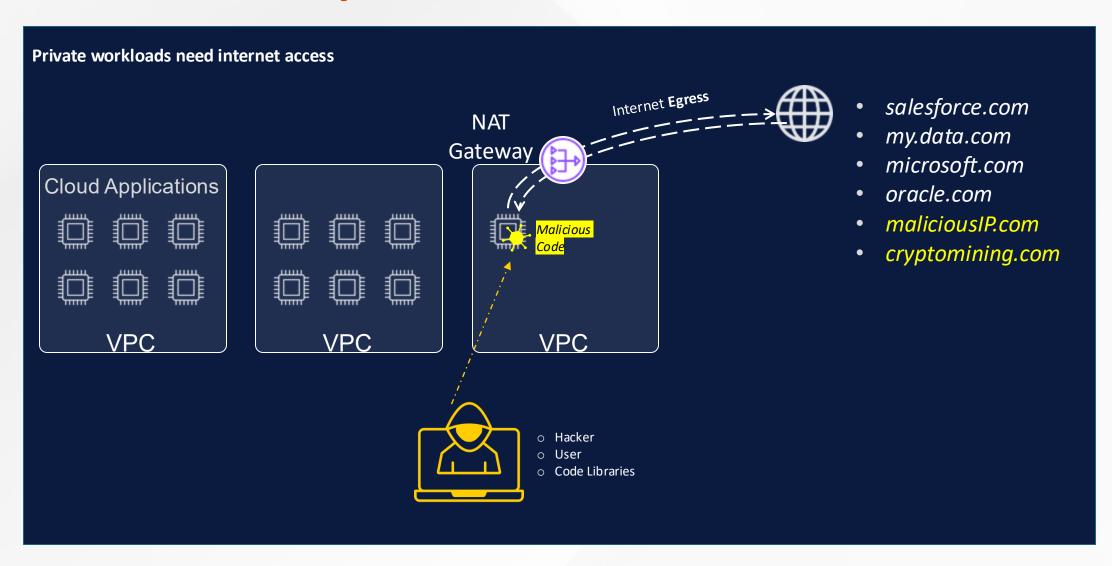


Patching



Updates





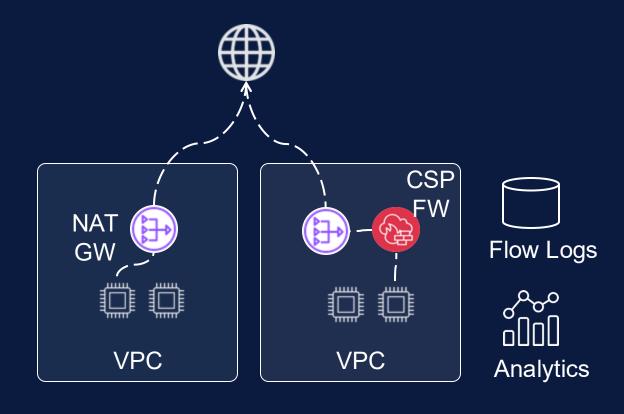


Default Architectural Options

- 1. CSP NAT GW Only
- 2. NAT GW + CSP FW in Each VPC/VNET

Challenges

- Limited visibility
- High data-processing costs
- Log storage and analytics costs
- No centralized intelligence
- Not multi-cloud capable



- 1 CSP NAT GW Only
- NAT GW + CSP FW in Each VPC/VNET

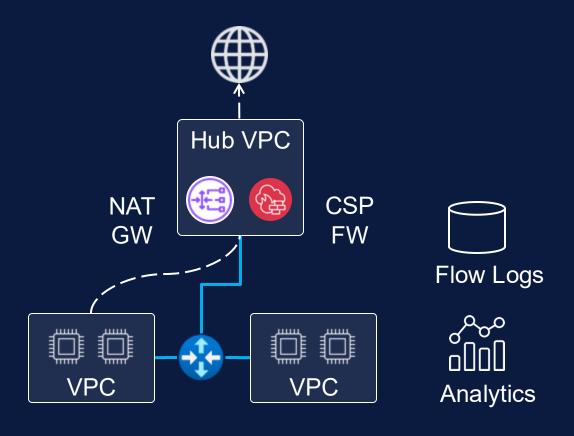


Default Architectural Options

3. Centralized CSP FW with Hub-and-Spoke

Challenges

- Limited visibility
- High data-processing costs
- Log storage and analytics costs
- No intelligence on new resources
- Cannot enforce encryption of data in transit
- Additional troubleshooting issues
- Not multi-cloud capable



Centralized CSP FW with Hub-and-Spoke

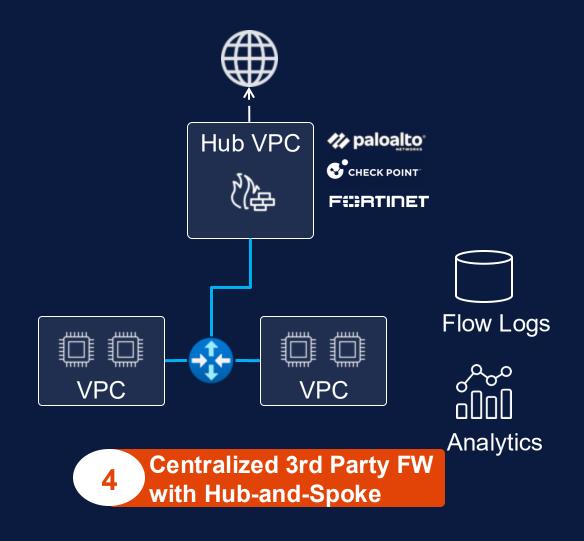


Default Architectural Options

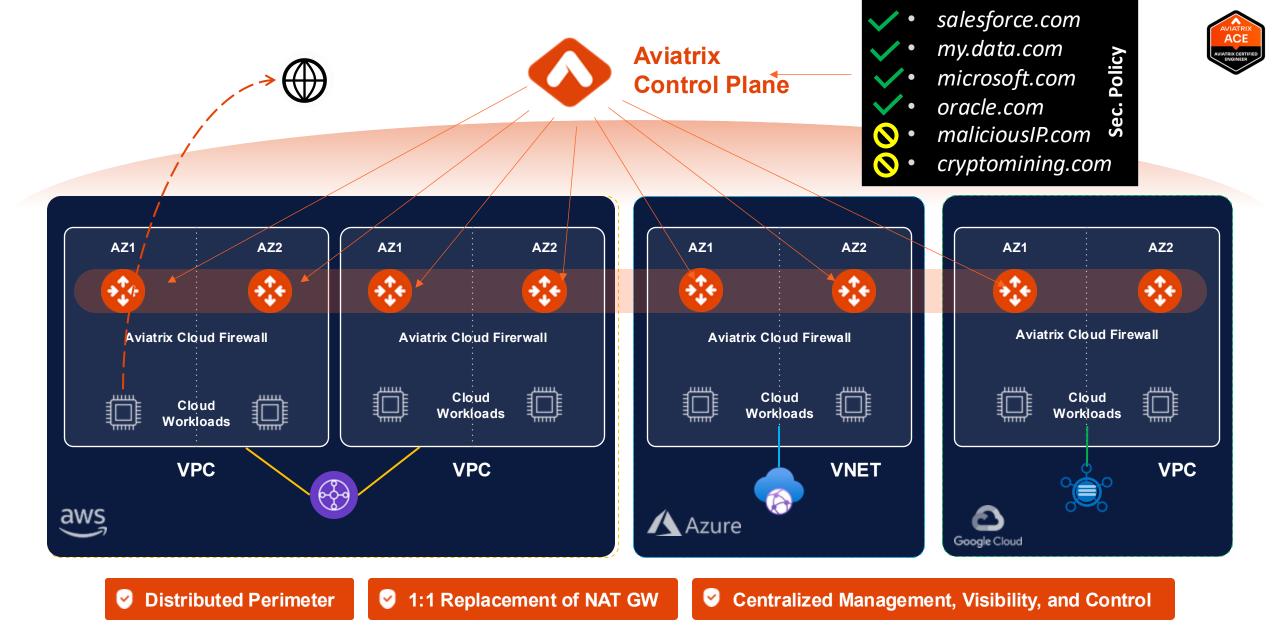
4. Centralized 3rd Party Firewall w/ Hub-and-Spoke

Challenges

- Firewalls not built for cloud: Operational complexity
- Cloud Ops < > Sec Ops Friction
- No centralized network & security intelligence
- Additional troubleshooting issues
- Not multi-cloud deployable





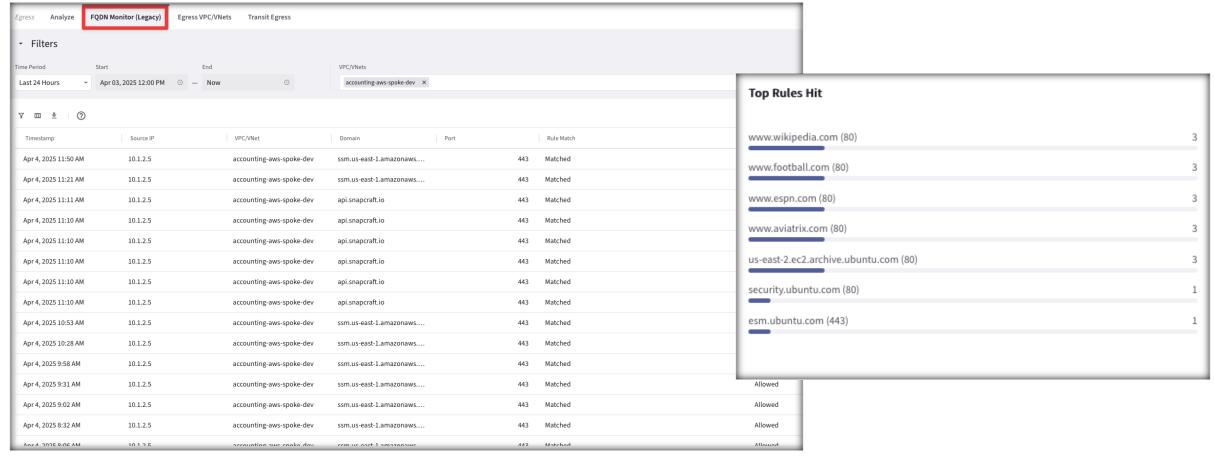




Monitor



- On the **FQDN Monitor** (**Legacy**) 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. ZTNA approach).

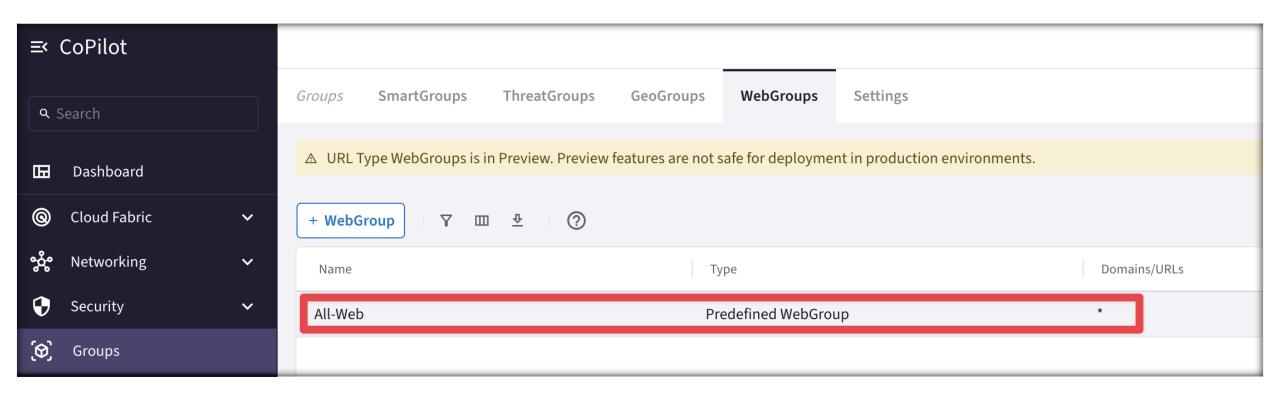




Predefined WebGroup: All-Web



- When you navigate to **CoPilot > Groups**, a predefined WebGroup, *All-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.





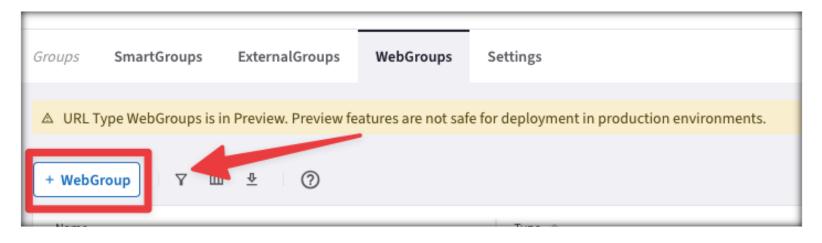
WebGroup Creation

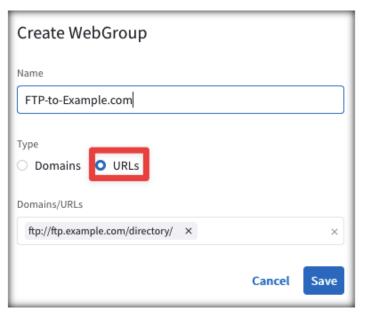
AVIATRIX
ACE

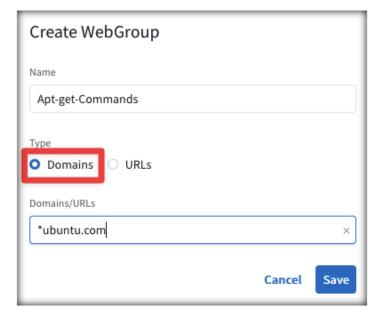
AVIATRIX CERTIFIED

ENGINEER

- WebGroups are groupings of domains and URLs, inserted into <u>Distributed</u> <u>Cloud Firewall</u> rules, that filter (and provide security to) Internet-bound traffic.
- In addition to the predefined
 WebGroup All-Web, you can also create
 two kind of custom WebGroups:
 - URLs WebGroup: for HTTP/HTTPS and for other protocols, but you need to define the full Path.
 - CAVEAT: TLS Decryption must be turned on when URLs-based WebGroups are used.
 - Domains WebGroup: for HTTP and HTTPS traffic (wild cards are supported – i.e. partial names).











Next: Distributed Cloud Firewall & FireNet

