



# **TECHNOLOGY PARTNER PROGRAM**

## **USE CASE DOCUMENTATION**

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## Partner Information

Partner information	
Date	4/18/2019
Partner Name	Aviatrix Systems
Web Site	www.aviatrix.com
Product Name	Aviatrix Secure Networking Platform PAYG - Metered
Partner Contact	(CTO, sxw@aviatrix.com, 650-796-2280)
Support Contact	support@aviatrix.com
Partner Product for Integration	Aviatrix Secure Networking Platform PAYG - Metered
Product Description	Next Gen Transit Network that connects datacenters to the cloud

## Use cases for integration into Palo Alto Networks Next Generation Security Operating Platform

- Use cases for integration:
  - o Aviatrix Next Gen Transit Network provides a DMZ architecture in the public cloud (AWS) that allows VM-Series to be inserted for traffic inspection. The solution decouples networking from firewall functions and allows firewall to perform at its maximum performance.
  - o When two or more VM-Series firewalls are deployed for redundancy within AWS, the Aviatrix Controller leverages the PAN-OS API framework to monitor the operational state. If a failure within the active VM-Series instance is detected, Aviatrix updates the routing tables within the cloud infrastructure to redirect traffic flows to the standby instance(s).
  - o Aviatrix Controller leverages the PAN-OS API to dynamically update the static routes on the VM-Series instances for packet forwarding. Whenever on-premise route or cloud spoke VPC CIDR changes, the Aviatrix Controller automatically updates the VM-Series instances.

## Palo Alto Networks Products for Integration

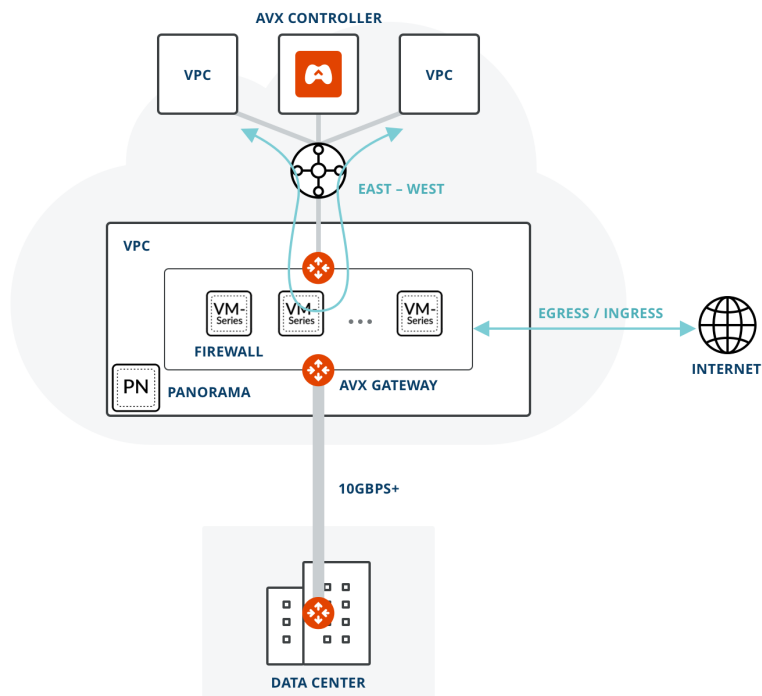
Palo Alto Networks Product	Integration Status	Palo Alto Networks Versions Supported	Aviatrix Versions Supported
Aperture			
Application Framework			
Autofocus			
Evident.io			
GlobalProtect			

GlobalProtect Cloud Service			
Logging Service			
MineMeld			
NGFW			
Panorama			
Traps			
VM-Series	API integration	PAN-OS 8.1.0 PAN-OS 9.0	4.1
Wildfire			
Other			

## Integration Benefits

- Integration benefits
  - o Maximize the VM-Series performance in a AWS Transit VPC Network through implementing a security VPC architecture – enabling full traffic inspection with scale-out performance.
  - o Reduce configuration time by removing the friction of configuring IPsec tunnels.
  - o Automate the run-time operation by managing the VM-series health and route updates.

## Integration Diagram



## Before you begin

- *Requirements:*
  - *AWS Account*
  - *Customer has subscribed Aviatrix Controller Metered AMI and launched the Controller by following the guide here:*  
<https://docs.aviatrix.com/StartUpGuides/aviatrix-cloud-controller-startup-guide.html>
  - *Aviatrix supports:*
    - *VM-Series Next-Generation Firewall Bundle 1*
    - *VM-Series Next-Generation Firewall Bundle 2*
    - *VM-Series Next-Generation Firewall (BYOL)*
- *Requirements for successful integration*
  - *Generate PAN-OS credentials and API key on VM-Series Next-Generation Firewalls*
  - *See details in this link: [https://docs.aviatrix.com/HowTos/transit\\_dmz\\_vendors.html](https://docs.aviatrix.com/HowTos/transit_dmz_vendors.html)*
- *Requirements for API keys if applicable*
  - *See details in this link: [https://docs.aviatrix.com/HowTos/transit\\_dmz\\_vendors.html](https://docs.aviatrix.com/HowTos/transit_dmz_vendors.html)*

## Palo Alto Networks Configuration

*Follow Palo Alto Networks configuration guide:*

<https://docs.paloaltonetworks.com/vm-series/9-0/vm-series-deployment/set-up-the-vm-series-firewall-on-aws/deploy-the-vm-series-firewall-on-aws/launch-the-vm-series-firewall-on-aws.html#>

## Partner Product Configuration

*Follow the following guides:*

1. *Aviatrix Startup Guide:*  
<https://docs.aviatrix.com/StartUpGuides/aviatrix-cloud-controller-startup-guide.html>
2. *DMZ configuration workflow:*  
[https://docs.aviatrix.com/HowTos/transit\\_dmz\\_workflow.html](https://docs.aviatrix.com/HowTos/transit_dmz_workflow.html)
3. *Palo Alto Networks integration configuration:*  
[https://docs.aviatrix.com/HowTos/transit\\_dmz\\_vendors.html](https://docs.aviatrix.com/HowTos/transit_dmz_vendors.html)

## Troubleshooting

- *Common troubleshooting steps*
  - *Login to Aviatrix Controller Console, go to Transit DMZ -> Advanced to list the Transit DMZ status*
  - *Login to Aviatrix Controller Console, go to Transit DMZ -> Vendor Integration to view the programmed routes. resync the routes if it becomes out of sync to VM-Series.*
- *Contact information for support*
  - [support@aviatrix.com](mailto:support@aviatrix.com)
- *Resources that may be helpful*
  - *Visit [Docs.aviatrix.com](https://docs.aviatrix.com)*
  - *Email to [support@aviatrix.com](mailto:support@aviatrix.com)*

## Technical Details

- *API calls that are being leveraged*  
[https://docs.aviatrix.com/HowTos/transit\\_dmz\\_vendors.html#api-calls](https://docs.aviatrix.com/HowTos/transit_dmz_vendors.html#api-calls)