Panorama Plugin for Azure Release Notes
2.0

tech**DOCS**

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Table of Contents

Azure Plugin 2.0 on Panorama Release Notes

The Azure plugin for Panorama version 2.0 introduces tag-based auto scaling, and securing Kubernetes services running on Azure Kubernetes Services (AKS) clusters and continues to support tag-based VM monitoring.

Refer to the VM-Series Deployment Guide version 8.1 or version 9.0 for instructions on how to configure this plugin.

Before you begin, make sure you review the following information:

> What's New
> Minimum Versions for Azure Auto Scaling and Azure Kubernetes Service Deployments
> Known Issues On Panorama Plugin for Azure
> Getting Help

What's New

The following topics describe the features introduced in this release.

Feature	Description
Auto Scale the VM-Series Firewall on Azure	Palo Alto Networks now provides templates to help you deploy an auto-scaling tier of VM-Series firewalls using several Azure services such as Virtual Machine Scale Sets, Azure Application Insights, Azure load balancers, Azure functions, Panorama and the Panorama plugin for Azure, and the VM-Series automation capabilities including the PAN-OS API and bootstrapping. The Azure Auto Scaling Version 1.0 templates allow you to leverage the scalability features on Azure that are designed to manage sudden surges in demand for application workload resources by independently scaling VM-Series firewalls in response to changing workloads.
Secure Kubernetes Services in an Azure Kubernetes Cluster	To secure Azure Kubernetes services (AKS), you must first install the Azure plugin for Panorama, and the Azure auto scaling solution. The auto scaling templates use information about your network and your resources to create a hub and spoke architecture and deploy an auto-scaling tier of VM-Series firewalls in a spoke Virtual Network (VNet). The AKS version 1.0 templates work with your auto scaling deployment to deploy an AKS cluster in a new Azure VNet. The Azure plugin helps you configure a connection that can monitor Azure Kubernetes cluster workloads, harvesting services you have annotated as "internal load balancer" and automatically creating tags you can use in Panorama dynamic address groups. You can leverage dynamic address groups to apply Security Policy on inbound traffic routed to services running on your AKS cluster.

Minimum Versions for Azure Auto Scaling and Azure Kubernetes Service Deployments

Consult the VM-Series plugin compatibility matrix and the VM-Series plugin compatibility matrix to verify the newest version information.

Panorama Management Server

The following table lists the minimum versions you must install on Panorama.

Panorama (PAN-OS)	VM-Series Plugin	Azure Plugin on Panorama	Templates
8.1.8	N/A	azure-2.0.0	• Azure Auto Scaling Version-1-0 • AKS Templates 1.0
9.0.3	1.0.4 (manual install)	azure-2.0.0	

- Panorama can manage firewalls that have the same version or earlier. You must install the VM-Series plugin so that Panorama can manage VM-Series firewalls running 9.0.1 and later.

  Download the VM-Series plugin from the Customer Support portal, and manually upload and install the plugin on Panorama.

  > *Unlike PAN-OS 9.0.0 and later, Panorama does not include the VM-Series plugin by default. After the manual installation, Panorama > Plugins > Check Now does not detect changes in the VM-Series plugin version.*
  >
  > *To upgrade the VM-Series plugin, download it from the Customer Support portal, upload to Panorama, and install.*

- You can download and install the Azure plugin on Panorama version 2.0 from **Panorama** > **Plugins**. You can also download it from the Customer Support portal, and manually upload and install the plugin on Panorama.
- If you have an Azure plugin on Panorama version 1.0 deployment, you can use version 2.0 to manage your existing firewalls (assuming they meet the minimum PAN-OS requirements), but you must redeploy using the Azure plugin version 2.0.

  > *There is no upgrade path from version 1.0 to version 2.0 because the schema changed in version 2.0. See* Known Issues On Panorama Plugin for Azure Version 2.0*.*

VM-Series Firewalls

The minimum versions for managed firewalls are as follows:

PAN-OS on VM-Series	VM-Series Plugin
8.1.8 and later	N/A
9.0.3 and later	1.0.4 and later.

Known Issues On Panorama Plugin for Azure Version 2.0

In addition to the following known issues in the Panorama plugin for Azure version 2.0, refer to the PAN-OS Release Notes to learn about the known issues for PAN-OS 8.1.x or PAN-OS 9.0.x:

Issue ID	Description
PLUG-2074	After a VM Scale Set (VMSS) is deleted, wait until the resource group deletion is complete before you attempt to delicense the VMs. When the deletion is complete, issue the following command: `request plugins azure force-delicense-deleted-vms`
PLUG-1876	On rare occasions, you see a message indicating the template configuration is out of synch. Check the syslog and push the configuration to your managed devices.
PLUG-1874	On rare occasions, the license server reuses the serial number of an active device, and Panorama deactivates the device. Remove the device from the auto scale group.
PLUG-1646	Azure plugin 2.0 does not support deployments with a proxy server.
PLUG-1613	Downgrade is not supported for plugin versions.

Review the following known issues for monitoring and protection services deployed on AKS clusters:

Issue ID	Description
PLUG-1901	If the service name is not unique across namespaces (for example, Staging and Production) the IP addresses associated with both services are mapped to the same tag and policy enforcement is the same for the services across both namespaces.Instead of using the default tags on Panorama, use the label selector to filter tags based on namespace, and use the filter results as part of the address group.
PLUG-1766	On **Azure** > **AutoScaling Definition** it can take from three to five minutes to list the Protected Applications and Services.
PLUG-1711	VNET peering between AKS clusters and Inbound Resource Groups sometimes causes a delay in scheduling and pods are in the Pending, Terminating, or Unknown state. If this happens, restart the nodes.

Getting Help

The following topics provide information on where to find more about this release and how to request support:

- Related Documentation
- Requesting Support

Related Documentation

Use the VM-Series Deployment Guide version 8.1 or 9.0 to enable Auto Scaling in your Azure deployment or secure Azure Kubernetes Services clusters.

Refer to the following documentation on the Technical Documentation portal or search the documentation for more information on our products:

- Palo Alto Networks Compatibility Matrix—Provides supported version and compatibility information for Palo Alto Networks products.
- **Panorama Administrator's Guide**—Provides the basic framework to quickly set up the Panorama™ virtual appliance or an M-Series appliance running version 8.1 or 9.0 for centralized administration of the Palo Alto Networks firewalls.
- **PAN-OS Administrator's Guide**—Provides the concepts and solutions to get the most out of your Palo Alto Networks next-generation firewalls. This includes taking you through the initial configuration and basic set up on your Palo Alto Networks firewalls for PAN-OS 8.1 or 9.0.

Requesting Support

For contacting support, for information on support programs, to manage your account or devices, or to open a support case, go to https://support.paloaltonetworks.com.

To provide feedback on the documentation, please write to us at: documentation@paloaltonetworks.com.

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