



Monitoring Palo Alto

Palo Alto Base Pack PowerPack version 103

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Chapter

1

Introduction

Overview

This manual describes how to monitor Palo Alto firewalls in SL1 using the *Palo Alto Base Pack PowerPack*.

The following sections provide an overview of Palo Alto firewalls and the *Palo Alto Base Pack PowerPack*:

This chapter covers the following topics:

<i>What is Palo Alto?</i>	3
<i>What Does the Palo Alto Base Pack PowerPack Monitor?</i>	4
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What is Palo Alto?

Palo Alto Networks is a provider of enterprise network security solutions. Their products include physical and virtual firewalls, the WildFire cloud-based service, and the Panorama network security management platform.

What Does the Palo Alto Base Pack PowerPack Monitor?

The *Palo Alto Base Pack* PowerPack includes the following features:

- Dynamic Applications to collect configuration and performance data about Palo Alto firewalls
- Device Classes for each of the Palo Alto devices monitored
- Event Policies and corresponding alerts that are triggered when Palo Alto devices meet certain status criteria

Installing the Palo Alto Base Pack PowerPack

Before completing the steps in this manual, you must import and install the latest version of the *Palo Alto Base Pack* PowerPack.

TIP: By default, installing a new version of a PowerPack overwrites all content from a previous version of that PowerPack that has already been installed on the target system. You can use the **Enable Selective PowerPack Field Protection** setting in the **Behavior Settings** page (System > Settings > Behavior) to prevent new PowerPacks from overwriting local changes for some commonly customized fields. For more information, see the section on [Global Settings](#).

To download and install the PowerPack:

1. Search for and download the PowerPack from the **PowerPacks** page (Product Downloads > PowerPacks & SyncPacks) at the [ScienceLogic Support Site](#).
2. In SL1, go to the **PowerPacks** page (System > Manage > PowerPacks).
3. Click the **[Actions]** button and choose *Import PowerPack*. The **Import PowerPack** dialog box appears.
4. Click **[Browse]** and navigate to the PowerPack file from step 1.
5. Select the PowerPack file and click **[Import]**. The **PowerPack Installer** modal displays a list of the PowerPack contents.
6. Click **[Install]**. The PowerPack is added to the **PowerPacks** page.

NOTE: If you exit the **PowerPack Installer** modal without installing the imported PowerPack, the imported PowerPack will not appear in the **PowerPacks** page. However, the imported PowerPack will appear in the **Imported PowerPacks** modal. This page appears when you click the **[Actions]** menu and select *Install PowerPack*.

Chapter

2

Configuration and Discovery

Configuration and Discovery

The following sections describe how to configure and discover Palo Alto firewalls for monitoring by SL1 using the *Palo Alto Base Pack PowerPack*:

This chapter covers the following topics:

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Prerequisites for Monitoring Palo Alto Firewalls

Before you can monitor Palo Alto firewalls in SL1 using the *Palo Alto Base Pack PowerPack*, you must have the following information:

- SNMP community strings for the devices you want to monitor
- IP addresses for each device you want to monitor
- Username and password for a user with access to the devices you want to monitor

NOTE: The monitored firewalls must be running PAN-OS version 8.0 or later to ensure the proper collection of tunnel performance data.

Creating Credentials for Palo Alto

To configure SL1 to monitor Palo Alto firewalls, you must create the SNMP and Basic/Snippet (or SOAP/XML) credentials that enable SL1 to connect with those firewalls.

NOTE: The *Palo Alto Base Pack PowerPack* currently supports only basic authentication for discovery; it does not support the use of an API key.

Creating an SNMP Credential

Some of the Dynamic Applications in the *Palo Alto Base Pack PowerPack* use SNMP to collect information about Palo Alto firewalls. To use these Dynamic Applications, you must first define an SNMP credential that enables SL1 to communicate with the firewalls.

To configure an SNMP credential:

1. Go to the **Credentials** page (Manage > Credentials).
2. Click **[Create New]** and then click **Create SNMP Credential**.

3. Supply values in the following fields:

- **Name.** Name of the credential. Can be any combination of alphanumeric characters, up to 64 characters.
- **All Organizations.** Toggle on (blue) to align the credential to all organizations, or toggle off (gray) and then select one or more specific organizations from the **What organization manages this service?** drop-down field to align the credential with those specific organizations.
- **Timeout (ms).** Time, in milliseconds, after which SL1 will stop trying to communicate with the device from which you want to retrieve data.

- **SNMP Version.**
 - Select SNMP V2 (default)
 - Select SNMP V3 for enhanced security
- **SNMP Community (Read Only).** Type the community string for the Palo Alto firewalls you want to monitor.
- **Port.** Use the default setting.

4. Click **[Save & Close]**.

Creating a Basic/Snippet Credential

To configure SL1 to monitor Palo Alto devices, you must also create a Basic/Snippet credential. This credential enables some of the Dynamic Applications in the *Palo Alto Base Pack PowerPack* to connect with those devices.

To create a Basic/Snippet credential for Palo Alto devices:

1. Go to the **Credentials** page (Manage > Credentials).
2. Locate the **"Palo Alto REST API Example"** sample credential and click its Action icon (⚙️). Then, select Duplicate and a copy of the credential called **"Palo Alto REST API Example copy"** appears.

3. Supply values in the following fields:

- **Name.** Type a name for the credential.
- **All Organizations.** Toggle on (blue) to align the credential to all organizations, or toggle off (gray) and then select one or more specific organizations from the **What organization manages this service?** drop-down field to align the credential with those specific organizations.
- **Timeout (ms).** Time, in milliseconds, after which the platform will stop trying to communicate with the authenticating server.
- **Hostname/IP.** Hostname or IP address of the device from which you want to retrieve data. Leave the default "https://%D".

- **Port.** Type the port number associated with the data you want to retrieve.
- **Username.** Type the username for a user account with access to the Palo Alto firewalls.
- **Password.** Type the password for the Palo Alto user account.

4. Click **[Save & Close]**.

Creating a SOAP/XML Credential

To configure SL1 to monitor Palo Alto devices, you can create a SOAP/XML credential instead of a Basic/Snippet credential. This credential enables some of the Dynamic Applications in the *Palo Alto Base Pack PowerPack* to connect with those devices. This credential allows you to disable the SSL configuration.

To create a SOAP/XML credential:

1. Go to the **Credentials** page (Manage > Credentials).
2. Locate the **"Palo Alto SSL Off REST API Example"** credential and click its Action icon (⋮). Then, select Duplicate and a copy of the credential called **"Palo Alto SSL Off REST API Example copy"** appears.
3. Click the Action icon (⋮) for the **"Palo Alto SSL Off REST API Example copy"** credential and select *Edit*. The **Edit Credential** modal appears.

4. Supply values in the following fields:

- **Name.** Type a new name for the credential.
- **All Organizations.** Toggle on (blue) to align the credential to all organizations, or toggle off (gray) and then select one or more specific organizations from the **What organization manages this service?** drop-down field to align the credential with those specific organizations.
- **URL.** Leave the default http://%D.
- **HTTP Auth User.** Type the username of the user account with access to the Palo Alto firewalls.
- **HTTP Auth Password.** Type the password of the Palo Alto user account.
- **Proxy Port.** (Required) Type the port number associated with the data you want to retrieve.
- **CURL Options.** Leave the default value of `SSLVERIFYPEER=0` so that the SSL configuration is disabled.

5. Click **[Save]**.

Creating a SOAP/XML Credential for an SSL Certificate

To configure SL1 to monitor Palo Alto devices, you can create a SOAP/XML credential instead of Basic/Snippet credential. This credential enables some of the Dynamic Applications in the *Palo Alto Base Pack* PowerPack to connect with those devices. This credential also allows enables the SSL configuration.

To create a SOAP/XML credential:

1. Go to the **Credentials** page (Manage > Credentials).
2. Locate the **"Palo Alto SSL On REST API Example"** credential and click its Action icon (⋮). Then, select Duplicate and a copy of the credential called **"Palo Alto SSL On REST API Example copy"** appears.
3. Click the Action icon (⋮) for the **"Palo Alto SSL On REST API Example copy"** credential and select *Edit*.

The **Edit Credential** modal appears.

The screenshot shows the 'Edit Credential' modal window. The main form area includes the following fields and sections:

- Name:** Palo Alto SSL On REST API Example
- All Organizations:** Toggle is on (blue). A dropdown menu is labeled 'Select the organizations the credential belongs to *'.
- Timeout (ms):** 1000000
- Content Encoding:** text/xml
- Method:** POST
- HTTP Version:** http/1.1
- URL:** https://%D
- HTTP Auth User:** REST_API_USER
- HTTP Auth Password:** Masked with dots
- Proxy Hostname/IP:** optional
- Proxy Port:** 8080
- Proxy User:** optional
- Proxy Password:** Masked with dots
- Embedded Password (NP):** Masked with dots
- Embed Value [%1] through [%4]:** Four empty input fields.
- HTTP Headers:** X-Sample-Header:Sample Value. Includes an 'Add Header' button.
- CURL Options:** Includes SSLCERT, SSL_CERT_PATH, and SSLVERIFYPEER=1.

On the right side, the 'Credential Tester' panel contains:

- Select Credential test (dropdown)
- Select Collector (dropdown)
- IP or Hostname to test* (input field)
- Test Credential (button)

4. Update the values in the following fields:

- **Name.** Type a new name for the credential.
- **All Organizations.** Toggle on (blue) to align the credential to all organizations, or toggle off (gray) and then select one or more specific organizations from the **What organization manages this service?** drop-down field to align the credential with those specific organizations.
- **URL.** Leave the default http://%D.
- **HTTP Auth User.** Type the username of the user account with access to the Palo Alto firewalls.
- **HTTP Auth Password.** Type the password of the Palo Alto user account.
- **Proxy Port.** (Required) Type the port number associated with the data you want to retrieve.
- **CURL Options.** Edit the following fields in this section:
 - **SSLCERT.** Type the certificate path for your SSL certificate.
 - **SSLVERIFYPEER=1.** Enables the SSL configuration.

CURL Options		Add CURL Option
SSLCERT	SSL_CERT_PATH	×
SSLVERIFYPEER	1	×

5. Click **[Save]**.

NOTE: If you would like to test your credential using the Credential Tester panel, click **[Save & Test]**. For detailed instructions on using the Credential Tester panel, see the [Using the Credential Tester Panel](#) section.

Creating an SNMP Credential in the SL1 Classic User Interface

Some of the Dynamic Applications in the *Palo Alto Base Pack PowerPack* use SNMP to collect information about Palo Alto firewalls. To use these Dynamic Applications, you must first define an SNMP credential that enables SL1 to communicate with the firewalls.

To configure an SNMP credential:

1. Go to the **Credential Management** page (System > Manage > Credentials).
2. Click the **[Actions]** button and then select *Create SNMP Credential*. The **Credential Editor** page appears.
3. Complete the following fields:
 - **Profile Name**. Type a name for the credential.
 - **SNMP Version**. Select the version of the SNMP you wish to use.
 - **SNMP Community (Read Only)**. Type the community string for the Palo Alto firewalls you want to monitor.
4. Supply values in the other fields on this page as needed. In most cases, you can accept the default values for the other fields.
5. Click the **[Save]** button.

Creating a Basic/Snippet Credential in the SL1 Classic User Interface

To configure SL1 to monitor Palo Alto devices, you must also create a Basic/Snippet credential. This credential enables some of the Dynamic Applications in the *Palo Alto Base Pack PowerPack* to connect with those devices.

To create a Basic/Snippet credential for Palo Alto devices:

1. Go to the **Credential Management** page (System > Manage > Credentials).
2. Locate the **"Palo Alto REST API Example"** credential and click its wrench icon (🔧). The **Credential Editor** modal page appears.
3. Supply the values in the following fields:


- **Credential Name.** Type a name for the credential.
- **Timeout (ms).** Time, in milliseconds, after which the platform will stop trying to communicate with the authenticating server.
- **Hostname/IP.** Hostname or IP address of the device from which you want to retrieve data. Leave the default "http://%D".
- **Port.** Type the port number associated with the data you want to retrieve.
- **Username.** Type the username for a user account with access to the Palo Alto firewalls.
- **Password.** Type the password for the Palo Alto user account.

4. Click **[Save As]** button and then click **[OK]**.

Creating a SOAP/XML Credential in the SL1 Classic User Interface

To configure SL1 to monitor Palo Alto devices, you can also create a SOAP/XML credential. This credential enables some of the Dynamic Applications in the *Palo Alto Base Pack PowerPack* to connect with those devices. This credential disables the SSL configuration.


To create a SOAP/XML credential for Palo Alto devices:

1. Go to the **Credential Management** page (System > Manage > Credentials).
2. Locate the **"Palo Alto SSL Off REST API Example"** credential and click its wrench icon (). The **Credential Editor** modal page appears.
3. Supply the values in the following fields:
 - **Profile Name.** Type a name for the credential.
 - **URL.** Leave the default value of http://%D.
 - **HTTP Auth User.** Type the username for a user account with access to the Palo Alto firewalls.
 - **HTTP Auth Password.** Type the password for the Palo Alto user account.
 - **Timeout (seconds).** Time, in seconds, after which the platform will stop trying to communicate with the authenticating server.
 - **Proxy Settings**
 - *Port.* Type the port number associated with the data you want to retrieve.
 - **CURL Options.**
 - `SSLVERIFYPEER`. Leave the default value "0" so that the SSL configuration is disabled.
4. Click **[Save As]** button and then click **[OK]**.

Creating a SOAP/XML Credential for an SSL Certificate in the SL1 Classic User Interface

To configure SL1 to monitor Palo Alto devices, you can also create a SOAP/XML credential. This credential enables some of the Dynamic Applications in the *Palo Alto Base Pack PowerPack* to connect with those devices. This credential allows you to enable the SSL configuration.

To create a SOAP/XML credential for Palo Alto devices:

1. Go to the **Credential Management** page (System > Manage > Credentials).
2. Locate the "Palo Alto SSL On REST API Example" credential and click its wrench icon (). The **Credential Editor** modal page appears.
3. Supply the values in the following fields:
 - **Profile Name**. Type a name for the credential.
 - **URL**. Leave the default value of https://%D.
 - **HTTP Auth User**. Type the username for a user account with access to the Palo Alto firewalls.
 - **HTTP Password**. Type the password for the Palo Alto user account.
 - **Timeout (seconds)**. Time, in seconds, after which the platform will stop trying to communicate with the authenticating server.
 - **Proxy Settings**.
 - **Port**. Type the port number associated with the data you want to retrieve.
 - **CURL Options**.
 - **SSLCERT**. Type the certificate path for your SSL certificate.
 - **SSLVERIFYPEER**. Leave the default value "1" so that the SSL configuration is enabled.
4. Click **[Save As]** button and then click **[OK]**.

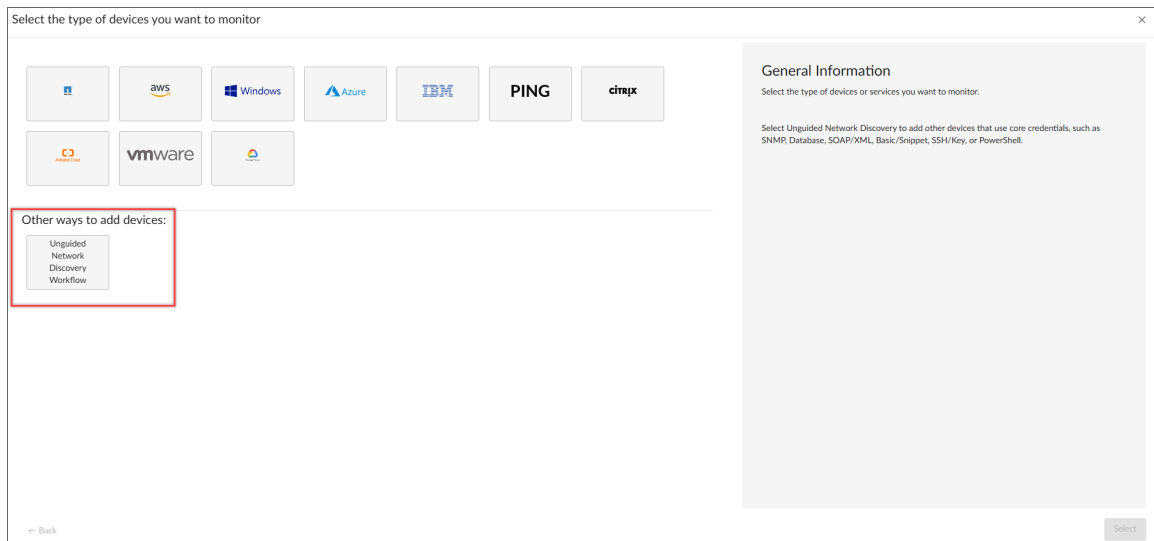
Discovering Palo Alto Devices

After you have created the necessary credentials, you can discover the Palo Alto devices that you want to monitor. Several minutes after the discovery session has completed, the Dynamic Applications in the *Palo Alto Base Pack* PowerPack will automatically align to the devices, enabling you to view configuration and performance data about the devices.

NOTE: This PowerPack discovers virtual Palo Alto devices that respond to SNMP. However, if they are provisioned, SL1 will not model them. SL1 will model the devices if they exist when the next discovery session is run.

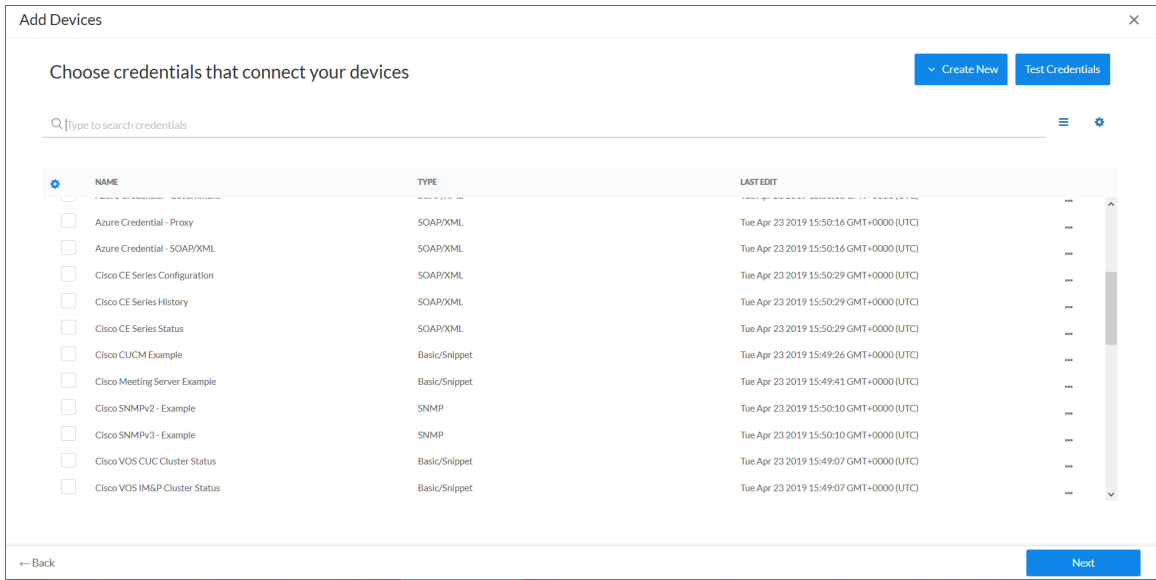
To discover the Palo Alto devices that you want to monitor:

1. On the **Devices** page (📱) or the **Discovery Sessions** page (Devices > Discovery Sessions), click the **[Add Devices]** button. The **Select** page appears:



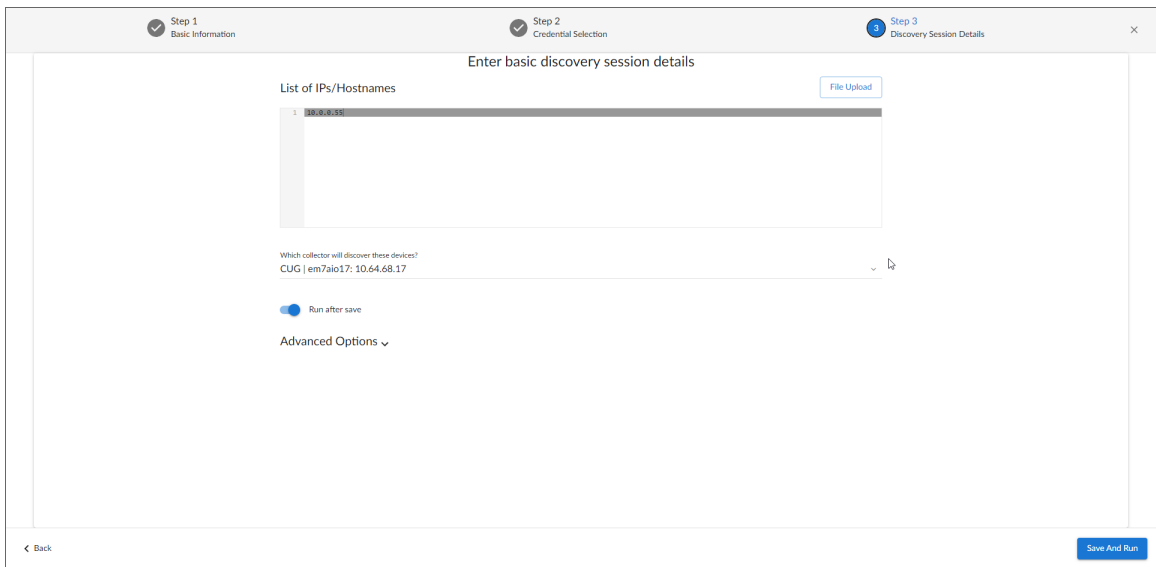
2. Click the **[Unguided Network discovery workflow]** button. Additional information about the requirements for discovery appears in the **General Information** pane to the right.
3. Click **[Select]**. The **Add Devices** page appears:
4. Complete the following fields:
 - **Name**. Type a unique name for this discovery session. This name is displayed in the list of discovery sessions on the **[Discovery Sessions]** tab.
 - **Description**. Optional. Type a short description of the discovery session. You can use the text in this description to search for the discovery session on the **[Discovery Sessions]** tab.
 - **Select the organization to add discovered devices to**. Select the name of the organization to which you want to add the discovered devices.

5. Click **[Next]**. The **Credentials** page of the **Add Devices** wizard appears:



6. On the **Credentials** page, locate and select the **SNMP credential** and the **Basic/Snippet credential** or the **SOAP/XML credential** you created.


7. Click **[Next]**. The **Discovery Session Details** page of the **Add Devices** wizard appears:



8. Complete the following fields:

- **List of IPs/Hostnames.** Type the IP address for the Palo Alto device.
- **Which collector will monitor these devices?.** Select an existing collector to monitor the discovered devices. Required.

- **Run after save.** Select this option to run this discovery session as soon as you click **[Save and Close]**.

In the **Advanced options** section, click the down arrow icon () to complete the following fields:



- **Model Devices.** Enable this setting.
9. Click **[Save and Close]** to save the discovery session. The **Discovery Sessions** page (Devices > Discovery Sessions) displays the new discovery session.
 10. If you selected the **Run after save** option on this page, the discovery session runs, and the **Discovery Logs** page displays any relevant log messages. If the discovery session locates and adds any devices, the **Discovery Logs** page includes a link to the **Device Investigator** page for the discovered device.

Discovering Palo Alto Devices in the SL1 Classic User Interface

After you have created the necessary credentials, you can discover the Palo Alto devices that you want to monitor. Several minutes after the discovery session has completed, the Dynamic Applications in the *Palo Alto Base Pack* PowerPack will automatically align to the devices, enabling you to view configuration and performance data about the devices.

NOTE: This PowerPack discovers virtual Palo Alto devices that respond to SNMP. However, if they are provisioned, SL1 will not model them. SL1 will model the devices if they exist when the next discovery session is run.

To discover the Palo Alto devices that you want to monitor:

1. Go to the **Discovery Control Panel** page (System > Manage > Classic Discovery).
2. In the **Discovery Control Panel**, click the **[Create]** button.
3. The **Discovery Session Editor** page appears. In the **Discovery Session Editor** page, complete the following fields:
 - **IP Address/Hostname Discovery List.** Type the IP address or addresses for the Palo Alto devices that you want to discover.
 - **SNMP Credentials.** Select the SNMP credential you created for the Palo Alto devices.
 - **Other Credentials.** Select the Basic/Snippet or SOAP/XML credentials you created for the Palo Alto devices.
 - **Model Devices.** Select this checkbox.
4. Optionally, you can enter values in the other fields on this page. For more information about the other fields on this page, see the **Discovery & Credentials** manual.
5. Click the **[Save]** button to save the discovery session, and then close the **Discovery Session Editor** window.
6. The discovery session you created appears at the top of the **Discovery Control Panel** page. Click its lightning-bolt icon () to run the discovery session.
7. The **Discovery Session** window appears. When the device(s) are discovered, click the device icon () to view the **Device Properties** page for each device.

Chapter

3

Troubleshooting

Overview

The following sections describe resolutions to some issues you might encounter when monitoring Palo Alto firewalls:

This chapter covers the following topics:

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Troubleshooting Palo Alto API Requests

If you are experiencing an issue in SL1, you can verify whether it is an issue with SL1 or Palo Alto's API.

ScienceLogic suggests using an API tool, like Postman or cURL, to try to reproduce the issue in your Palo Alto system. When running the API testing tool, if you receive a message that the tool is not able to send a request or if the tool does not receive a response from the API, an issue is occurring in your Palo Alto system. For the examples below, ScienceLogic uses Postman.

Common Palo Alto API Issues and Resolutions

- If the API testing tool cannot send a request, you might be experiencing network connectivity issues. Check your connection by attempting to open a page in your web browser.
- Some firewalls might be configured to block non-browser connections. If this is the case, you will need to contact your Palo Alto administrator before running the API testing tool.
- Your API server might require client certificates. You can try adding a client certificate in the API testing tool settings.
- If you are including variables or path parameters with your API request, check that the final address is structured correctly. Unresolved request variables can result in an invalid server address.
- Check that the URL is correct and uses http:// or https://.
- For a full list of Palo Alto API code errors, see Palo Alto's documentation on PAN-OS XML API Error Codes.

Troubleshooting Commands

If your Dynamic Applications are failing, you can use SSH to access each Data Collector and then run the following commands. These commands verify the API endpoints that are used by the Dynamic Applications in the Palo Alto Base Pack PowerPack. If the command fails, you have identified which Dynamic Application is failing.

- To test the Discovery Snippet Code that is used for Dynamic Applications that use the API, run the following command:

```
curl -u USERNAME:PASSWORD -k "https://DEVICE_IP  
/api/?type=report&async=yes&reporttype=predefined&reportname=to  
p-application-categories"
```

- To test the "Palo Alto: Traffic to Country Destination" Dynamic Application, run the following command:

```
curl -u USERNAME:PASSWORD -k "https://DEVICE_IP  
/api/?type=report&async=nos&reporttype=predefined&reportname=to  
p-destination-countries"
```

- To test the "Palo Alto: Environmental Performance" Dynamic Application, run the following command:

```
curl -u USERNAME:PASSWORD -k "https://DEVICE_IP  
/api/?type=op&cmd=<show><system><environmentals></environmental  
s></system></show>"
```

- To test the "Palo Alto: License Configuration" Dynamic Application, run the following command:

```
curl -u USERNAME:PASSWORD -k "https://DEVICE_IP  
/api/?type=op&cmd=<request><license><info></info></license></re  
quest>"
```

- To test the "Palo Alto: GlobalProtect Configuration" Dynamic Application, run the following command:

```
curl -u USERNAME:PASSWORD -k "https://DEVICE_  
IP/api/?type=op&cmd=<show><system><info/></system></show>"
```

- To get the Palo Alto version, run the following command:

```
curl -u USERNAME:PASSWORD -k "https://DEVICE_  
IP/api/?type=version"
```

Troubleshooting Dynamic Applications


There are additional common issues when using the Dynamic Applications included in the Palo Alto Base Pack PowerPack. Use the following steps to identify and troubleshoot issues.

SNMP Devices and Dynamic Applications

If your Dynamic Applications are not collecting data from an SNMP device, review your SNMP device credential to ensure the Data Collector can communicate with your SNMP device. If your credential is correct, perform a SNMP request to verify that the object IDs (OIDs) that are used by the Dynamic Applications are available in the SNMP device.

NOTE: The SNMP Walker will only return information from SNMP v2 devices.



To verify that the OIDs are available to a Dynamic Application, perform an SNMP walk:

1. Go to the **Device Manager** page (Devices > Device Manager, or Devices > Classic Devices, or Registry > Devices > Device Manager in the classic SL1 user interface in the classic SL1 user interface).
2. In the **Device Manager** page, select the wrench icon () for a device on which you want to perform an SNMP walk.
3. In the **Device Properties** page, select the **[Toolbox]** tab. Select the SNMP Walker icon in the **Device Toolbox** pane.
4. The **SNMP Walker** modal appears. In the drop-down menu in the upper left, select the OID for the Dynamic Application you would like to verify.
5. Click the **[Walk]** button.
6. Verify that the OID returns a response. If an OID does not return a response, there may be an issue with your device.

Automatically Aligned Dynamic Applications

If your Dynamic Application is not collecting data, it is possible that the Dynamic Application is not automatically aligned to a component. To manually verify that a Dynamic Application is aligned, you can perform an SNMP walk.

To identify the Discovery OID available on a Dynamic Application and perform an SNMP walk:

1. Go to the Dynamic Applications Manager page (System > Manage > Dynamic Applications, or System > Manage > Applications in the classic SL1 user interface).
2. Find the Dynamic Application that you would like to verify and select the wrench icon () .
3. In the **Dynamic Applications Properties Editor** page, select the **[Collections]** tab.
4. In the **Collection Object Registry** pane (at the bottom of the page), find the Object Name 'Discovery' and make note of the SNMP OID. You will need it to perform an SNMP walk.
5. Go to the **Device Manager** page (Devices > Device Manager, or Devices > Classic Devices, or Registry > Devices > Device Manager in the classic SL1 user interface in the classic SL1 user interface).
6. In the **Device Manager** page, select the wrench icon () for a device on which you want to perform an SNMP walk.
7. In the **Device Properties** page, select the **[Toolbox]** tab. Select the SNMP Walker icon in the **Device Toolbox** pane.
8. The **SNMP Walker** modal appears. Next to the drop-down menu in the upper left, select the plus icon to manually enter an OID.
9. Enter the SNMP OID value from the 'Discovery' Object Name. Click the **[Walk]** button.
10. Verify that the OID returns a response. If the OID does not return a response, the Dynamic Application may not be automatically aligned.

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800-SCI-LOGIC (1-800-724-5644)

International: +1-703-354-1010