Docker PowerPack Release Notes

Version 108

Overview

Version 108 of the "Docker" PowerPack updates the PowerPack to make it compatible with Python , addresses an issue with the "Docker: Host Device Class Realignment" run book action, and adds a device template to use if Dynamic Applications fail to align automatically during discovery.

- **Minimum Required SL1 Version**: 11.3.0

Before You Install or Upgrade

Ensure that you are running version 11.3.0 or later of SL1 before installing "Docker" PowerPack version 108.

> **NOTE:** For details on upgrading SL1, see the relevant *SL1 Platform Release Notes*.

You must also enable the Docker API. For instructions, see the **Monitoring Docker** manual.

Installation or Upgrade Process

> **TIP:** By default, installing a new version of a PowerPack will overwrite all content in 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 the new version of the PowerPack from overwriting local changes for some commonly customized fields.

To install this PowerPack:

1. Familiarize yourself with the *Known Issues* for this release.

2. See the *Before You Install or Upgrade* section. If you have not done so already, upgrade your system to the 11.3.0 or later release.

3. Download the "Docker" version 108 PowerPack from the Support Site to a local computer.

4. Go to the **PowerPack Manager** page (System > Manage > PowerPacks). Click the [Actions] menu and choose *Import PowerPack*. When prompted, import "Docker" version 108.

5. Click the [Install] button. For details on installing PowerPacks, see the chapter on *Installing a PowerPack* in the ***PowerPacks*** manual.

Features

This release includes the following features:

- Dynamic Applications that discover and collect data from Docker component devices
- Device classes for each type of Docker component device monitored
- Event policies that are triggered when Docker devices meet certain status criteria
- Run book actions and policies that automate some aspects of the device discovery and creation process
- An example SSH/Key credential for discovering Docker devices
- Device dashboards that display information about Docker component devices

Enhancements and Issues Addressed

The following enhancements and addressed issues are included this release:

- Updated the PowerPack to be compatible with Python 3.6 (SOL-27653)
- Addressed an issue that caused the "Docker: Host Device Class Realignment" run book action to activate incorrectly in certain situations. As part of the fix for this issue:

  - The "Docker: Hosts and Swarm Cluster realignment to CU id of the leader node" event policy will only be triggered by the leader node.
  - If one or more nodes are not discovered, they will not be taken into account when deciding whether to trigger the event.
  - The run book action now uses the IP address instead of the hostname to read the cache, because the cache is saved using the IP address. (Case: 00424553) (SOL-27032)
- Added the "Docker Template Example" device template that you can apply to root (Docker Host) Docker devices if the required Dynamic Applications fail to align automatically during discovery. (SOL-1427)
- Made several modifications to example credentials in the PowerPack.

Known Issues

The following known issues affect version 108 of the "Docker" PowerPack:

- The "Virtual Size" collection object in the "Docker: Image Configuration" Dynamic Application is obsolete in version 108 of the PowerPack due to the data being removed from the API in version 1.43 of the Docker API.
- The "Docker: Container Performance" Dynamic Application getting more than 100% of CPU usage is an expected Docker behavior. SL1 will report CPU usage peaks just as it reports it on the Docker CLI. CPU

usage can exceed 100% depending on the number of cores the container has. For example, two CPUs can report numbers up to 200%, three CPUs can report up to 300%, and so on.

- If a discovered device is reporting the "Device Failed Availability Check: UDP/SNMP check requested but invalid or no credential was specified" message, ensure that the *Availability Port* field in the **Device Properties** page (Devices> Classic Devices > wrench icon) is configured as *ICMP/ICMP*.

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