Docker PowerPack Release Notes

Version 100

Table of Contents

Overview 3
Before You Install 3
Installation Process 3
Included Features 4

Overview

Version 100 is the initial version of the *Docker* PowerPack. It includes Dynamic Applications, Event Policies, Run Book Actions/Policies, and other features for discovering and monitoring Docker hosts, containers, swarms, stacks, and services.

- **Minimum Required Platform Version**: 8.1.0
- **Support Status**: Beta

This document describes:

- *Pre-install information*
- *The installation process for the PowerPack*
- *The features included in version 100*

Before You Install

Ensure that you are running version 8.1.0 or later of the ScienceLogic platform before installing the *Docker* PowerPack version 100.

NOTE: For details on upgrading the ScienceLogic platform, see the appropriate ScienceLogic Release Notes.

Installation Process

To install version 100 of the *Docker* PowerPack:

1. See the *Before You Install* section. If you have not done so already, upgrade your system to the 8.1.0 or later release.
2. Download version 100 of the *Docker* PowerPack from the Customer Portal to a local computer.
3. Go to the **PowerPack Manager** page (System > Manage > PowerPacks). Click the **[Actions]** menu and choose *Import PowerPack*. When prompted, import version 100 of the PowerPack.
4. After importing the PowerPack, you will be prompted to install the PowerPack. Click the **Install** button to install the PowerPack.

Included Features

Docker PowerPack version 100 includes the following features:

- A Docker Host device class and the following Dynamic Applications to discover and monitor Docker hosts:
    - Docker: Host Configuration (DOCK-14)
    - Docker: Host Performance (DOCK-37)
    - Docker: Host Reclassification (DOCK-34)
    - Docker: Containers Performance (DOCK-21)
    - Docker: Image Configuration (DOCK-12)
    - Docker: Network Configuration (DOCK-35)

NOTE: The "Docker: Host Configuration" Dynamic Application collects node information from manager nodes only. Worker nodes do not return any node information to the Dynamic Application because they do not participate in the Raft distributed state, make scheduling decisions, or serve the swarm model HTTP API.

- The "Docker: Host Device Class Realignment" Run Book Action and Policy, which enable the ScienceLogic platform to automatically assign the Docker Host device class to the appropriate root physical devices. (DOCK-34)
- A Docker Container device class and the following Dynamic Applications to discover and monitor Docker containers:
    - Docker: Container Discovery (DOCK-15)
    - Docker: Container Configuration (DOCK-18)
    - Docker: Container Performance (DOCK-16)
    - Docker: Container Interface Performance (DOCK-17)
- A Docker Swarm device class and the following Dynamic Applications to discover and monitor Docker swarm clusters:
    - Docker: Swarm Cluster Discovery (DOCK-22)
    - Docker: Swarm Configuration (DOCK-27)
    - Docker: Swarm Performance (DOCK-28)
- The "Docker: Swarm Cluster Creation" Run Book Action and Policy, which enable the ScienceLogic platform to automatically create a virtual root device for a Docker swarm cluster when the platform discovers a node that is a swarm leader. (DOCK-22)

NOTE: The ScienceLogic platform creates only a single Docker Swarm virtual device for the leader manager node, even if there are multiple manager nodes in the swarm.

NOTE: If the swarm's leader node changes, you do not need to rediscover the swarm. However, if you completely delete a swarm from the ScienceLogic platform and then attempt to rediscover it from scratch, you might need to navigate to the cache.dynamic_app table in the ScienceLogic database, search for the keywords "%DOCKER_LEADER_NODE%", and delete the cache key for the swarm you want to rediscover. This cache key is in the following format: "DOCKER_LEADER_NODE_{ppguid}_{swarm_id}".

- Collection objects that create dynamic component mapping relationships between swarm cluster devices and the nodes in the swarm. (DOCK-41)
- A Docker Stack device class and the following Dynamic Applications to discover and monitor Docker application stacks that are deployed to a swarm:
    - Docker: Stack Discovery (DOCK-23)
    - Docker: Stack Performance (DOCK-13)
- A Docker Service device class and the following Dynamic Applications to discover and monitor Docker swarm services and stack services:
    - Docker: Swarm Service Discovery (DOCK-24)
    - Docker: Stack Service Discovery (DOCK-40)
    - Docker: Service Configuration (DOCK-25)
    - Docker: Service Performance (DOCK-31)
- Collection objects that create dynamic component mapping relationships between Docker services and their underlying containers. (DOCK-26)
- The "Docker: Component Vanish Timer Update" Run Book Action and Policy, which enable the ScienceLogic platform to automatically set the correct vanish and purge timer thresholds for Docker component devices upon their discovery. (DOCK-20) (DOCK-29)
- Event policies that are triggered when Docker devices meet certain status criteria (N/A - original pack)
- An example Basic/Snippet credential for discovering Docker devices (N/A - original pack)
- Device Dashboards that display information about Docker devices (N/A - original pack)

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