Google Cloud Platform *BETA* PowerPack Release Notes

Version 101

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Overview

Version 101 of the *Google Cloud Platform *BETA** PowerPack adds the ability to discover several new Google Cloud Platform (GCP) services and devices and introduces the ability to discover GCP accounts using a proxy server. It also adds new Dynamic Applications, Device Classes, Event Policies, and Device Dashboards, as well as a new sample SOAP/XML Credential.

- **Minimum Required SL1 Version**: 8.10.2
- **Support Status**: Beta

This document describes:

- *Pre-installation or pre-upgrade information*
- *The installation and upgrade process for the PowerPack*
- *The features included in version 101*
- *The enhancements and issues addressed in version 101*

Before You Install

Ensure that you are running SL1 version 8.10.2 or later before installing the *Google Cloud Platform *BETA** PowerPack version 101.

NOTE: For details on upgrading SL1, see the appropriate SL1 Release Notes.

Installing Google Cloud Platform *BETA* PowerPack version 101

NOTE: ScienceLogic does not recommend upgrading to version 101 of the *Google Cloud Platform *BETA** PowerPack from version 100. Instead, if you are currently using version 100, ScienceLogic recommends that you delete your previously discovered Google Cloud devices as well as version 100 of the *Google Cloud Platform *BETA** PowerPack, and then install version 101. However, be advised that doing so will cause you to lose historical device data. It will also require you to create a new Google Cloud credential and re-discover your Google Cloud account.

To install the *Google Cloud Platform *BETA** PowerPack for the first time, perform the following steps:

1. See the ***Before You Install*** section. If you have not done so already, upgrade your SL1 system to the 8.10.2 or later release.
2. Download version 101 of the *Google Cloud Platform *BETA** 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 101 of the *Google Cloud Platform *BETA** PowerPack.
4. After importing the PowerPack, you will be prompted to install the PowerPack. Click the **[Install]** button to install the PowerPack.
5. See the manual ***Monitoring Google Cloud Platform*** for instructions on using the new PowerPack.

Included Features

*Google Cloud Platform *BETA** PowerPack version 101 includes the following features:

- Dynamic Applications that discover and monitor GCP devices
- Device Classes for each type of GCP device that SL1 monitors, plus Device Classes for each Region and Zone the PowerPack supports
- Event Policies that are triggered when GCP devices meet certain status criteria
- A sample Credential that you can use to create SOAP/XML credentials to monitor GCP devices
- The ScienceLogic Libraries that are utilized by this PowerPack:
    - content
    - cryptography
    - PyJWT
    - silo_apps
    - silo_core
    - silo_core_rest
    - silo_credentials
    - silo_gcp_rest

Enhancements and Issues Addressed

The following enhancements and addressed issues are included in version 101 of the *Google Cloud Platform *BETA** PowerPack:

- The ability to discover GCP accounts using a proxy server was added to the PowerPack.
- The discovery process was updated to ensure that the Dynamic Applications in the *Google Cloud Platform *BETA** PowerPack do not discover regions that do not have services or devices in use.
- The silo_core and silo_core_rest ScienceLogic Libraries were added to the PowerPack to support REST API. The cryptography and PyJWT libraries were also added.
- The silo_googlecloud ScienceLogic Library was removed from the PowerPack.
- The following Dynamic Applications were added to the PowerPack:
    - GCP: Folder Configuration
    - GCP: Folder Discovery
    - GCP: Global Backend Bucket Configuration
    - GCP: Global Backend Bucket Discovery
    - GCP: Global Backend Service Configuration
    - GCP: Global Backend Service Discovery
    - GCP: Global Backend Service Performance
    - GCP: Load Balancing Global HTTP(S) Configuration
    - GCP: Load Balancing Global HTTP(S) Discovery
    - GCP: Load Balancing Global HTTP(S) Performance
    - GCP: Load Balancing Global Service Discovery
    - GCP: Load Balancing Global SSL Proxy Configuration
    - GCP: Load Balancing Global SSL Proxy Discovery
    - GCP: Load Balancing Global TCP Proxy Configuration
    - GCP: Load Balancing Global TCP Proxy Discovery
    - GCP: Load Balancing Regional Internal TCP/UDP Configuration
    - GCP: Load Balancing Regional Internal TCP/UDP Discovery
    - GCP: Load Balancing Regional Internal TCP/UDP Performance
    - GCP: Load Balancing Regional Network TCP/UDP Configuration
    - GCP: Load Balancing Regional Network TCP/UDP Discovery
    - GCP: Load Balancing Regional Service Discovery
    - GCP: Multi-Region Discovery
    - GCP: Organization Configuration
    - GCP: Organization Discovery

    - GCP: Organization Project Discovery
    - GCP: Persistent Disk Performance
    - GCP: Region Configuration
    - GCP: Storage Bucket Configuration
    - GCP: Storage Bucket Discovery
    - GCP: Storage Bucket Performance
    - GCP: Storage Multi-regional Service Discovery
    - GCP: Storage Regional Service Discovery
    - GCP: Token
    - GCP: VPC Subnets Configuration
    - GCP: VPC Subnets Discovery
    - GCP: VPC Subnets Service Discovery
- The following Dynamic Applications were updated to utilize REST API:
    - GCP: Persistent Disk Configuration
    - GCP: Persistent Disk Discovery
    - GCP: Persistent Disk Service Discovery
    - GCP: Project Configuration
    - GCP: Project Discovery
    - GCP: Region Discovery
    - GCP: VM Instance Configuration
    - GCP: VM Instance Discovery
    - GCP: VM Instance Performance
    - GCP: VM Instance Service Discovery
    - GCP: VPC Network Configuration
    - GCP: VPC Network Discovery
    - GCP: VPC Network Service Discovery
    - GCP: Zone Discovery
- The Dynamic Applications in the *Google Cloud Platform *BETA** PowerPack were updated to create dynamic component map relationships between the following component devices:
    - GCP Compute Instances and Subnets
    - GCP Load Balancing Global HTTPS and Default Backend Services
    - GCP Load Balancing Global HTTPS and Backend Services
    - GCP Load Balancing Global HTTPS and Backend Buckets
    - GCP Load Balancing Global SSL Proxy and Backend Services

    - GCP Load Balancing TCP Proxy and Backend Services
    - GCP Load Balancing Regional Network TCP/UDP and Compute Instances
    - GCP VPC Subnets and VPC Networks
    - GCP VM Instances and Kubernetes Nodes, for users who also have the *Kubernetes* PowerPack installed

- The "GCP: Persistent Disk Configuration" Dynamic Application was updated to display a list of instances used by the persistent disk.
- Support for pagination was added to the PowerPack's ScienceLogic Libraries and Dynamic Applications.
- The following Device Classes were added to the PowerPack to represent Google Cloud services and devices:

    - GCP: Folder
    - GCP: Generic Multi-Region
    - GCP: Global Backend Bucket
    - GCP: Global Backend Service
    - GCP: Load Balancing Global HTTP(S)
    - GCP: Load Balancing Global Service
    - GCP: Load Balancing Global SSL Proxy
    - GCP: Load Balancing Global TCP Proxy
    - GCP: Load Balancing Regional Internal TCP/UDP
    - GCP: Load Balancing Regional Network TCP/UDP
    - GCP: Load Balancing Regional Service
    - GCP: Organization
    - GCP: Storage Bucket
    - GCP: Storage Multi-Regional Service
    - GCP: Storage Regional Service
    - GCP: VPC Subnets
    - GCP: VPC Subnets Service

NOTE: The Global Backend Service, Load Balancer Global HTTP(S), Load Balancer Regional Internal TCP/UDP, and Storage Bucket Device Classes are Tier 3. All other Device Classes are Tier 1.

- The following Device Classes were added to the PowerPack to represent Google Cloud regions and zones:

    - Multi-Region Asia
    - Multi-Region Europe North 1 / Europe West 4
    - Multi-Region European Union

    - Multi-Region United States
    - Multi-Region US Central 1 / US East 1
    - Region Asia East 2 (Hong Kong)
    - Region Asia North East 2 (Osaka)
    - Region Europe North 1 (Finland)
    - Region Europe West 6 (Zurïch)
    - Region US West 2 (Los Angeles)
    - Zone Asia North East 2 (Osaka)
    - Zone Asia East 2 (Hong Kong)
    - Zone Europe North 1 (Finland)
    - Zone Europe West 6 (Zurïch)
    - Zone US West 2 (Los Angeles)
- The following Event Policies were added to the PowerPack:

Event Policy Name	Event Source	Severity
GCP: VM Instance Disk Read Bytes exceeded threshold	Dynamic	Major
GCP: VM Instance Disk Read Bytes returned to normal	Dynamic	Healthy
GCP: VM Instance Disk Write Bytes exceeded threshold	Dynamic	Major
GCP: VM Instance Disk Write Bytes returned to normal	Dynamic	Healthy

- A new SOAP/XML Credential ("GCP SOAP Credential") was added to the PowerPack, and the SSH/Key Credential ("GCP Sample Credential") that had been included in version 100 was removed from the PowerPack.
- The following Device Dashboards were added to the PowerPack:
    - Google Backend Service
    - Google Compute Instance
    - Google Compute Instance Service
    - Google Global HTTP(S) Load Balancer
    - Google Persistent Disk
    - Google Persistent Disk Service
    - Google Project
    - Google Regional LB TCP/UDP
    - Google Storage Bucket
    - Google Storage Bucket Service

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