ScienceLogic

Skylar Analytics Release Notes

Version 1.1.0

Overview

This release notes file covers the initial release of Skylar Analytics, version 1.1.0.

Skylar Analytics contains a set of tools that lets you view, analyze, and use the data that SL1 gathers and sends to the Skylar AI engine. Skylar Analytics insights are presented in the SL1 user interface, in a ScienceLogic-hosted instance of Apache Superset, and in the Skylar AI API.

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IMPORTANT: Skylar Analytics requires SL1 12.3.0 or later.

Features in Version 1.1.0

Skylar Analytics includes the following components:

- ***Data Visualization***. Displays dashboards and charts based on data gathered by Skylar AI and SL1. This component is part of a ScienceLogic-hosted instance of Apache Superset.
- ***Anomaly Detection***. Uses Skylar AI to identify unusual patterns that do not conform to expected behavior. You can access this component on the **Anomaly Detection** page of SL1, from a link on the Skylar AI page.
- ***Predictive Alerting***. Helps to avoid problems such as filesystems running out of space, hosts running out of memory, or issues with network reliability due to over-subscription. The alerts are generated in advance of the problem and can provide days, weeks, or months of notice depending upon the conditions.

The following features are included in this release of Skylar Analytics:

- The Skylar SL1 Management Script lets you set up your SL1 connectors and SL1 services for exporting data to Skylar. The script is named `sl-otelcol-mgmt.py`, and it is included with Skylar Analytics in the `sl-otelcol` package.
- Added a ***Skylar AI Status*** column to the **Organizations** page (Registry > Accounts > Organizations) in SL1 that displays whether the Skylar AI is enabled or disabled for a specific organization. By default, the Skylar AI features are disabled. You can select one or more organizations and use the ***Select Action*** drop-down to enable or disable Skylar AI.
- The **Skylar AI** page in SL1 represents the Skylar AI engine, which gathers and analyzes data from SL1 for analytics, predictive alerting, and anomaly detection. This page contains links to key Skylar AI components, including the following:
    - **Skylar Analytics**. The ScienceLogic-hosted instance of Apache Superset that contains dashboards and charts that let you view, analyze, and use the data that SL1 gathers and sends to the Skylar AI engine.

    - **Skylar Predictive Alerting**. Opens the **Events** page of the SL1 user interface with all predictive alerts displayed. You can click the text in the **Message** column to view the **Event Investigator** page, which contains the **Skylar Analytics Summary** panel with a graph of data from Skylar AI for the predictive alert.
    - **Skylar Automated RCA**. The Skylar Automated RCA user interface lets you review a list of alerts, and suggestions for potential alerts, based on the analysis of Skylar AI. For an alert or a suggestion, you can view a Root Cause report that consists of a group of log events that the Skylar AI identified as being part of a problem. Please note that Skylar Automated RCA is not considered part of Skylar Analytics.
    - **Skylar Anomaly Detection**. The **Anomaly Detection** page in SL1 displays a list of all devices that have metrics being monitored for anomalies. You can also adjust thresholds for Anomaly Detection on the **Anomaly Detection Thresholds** page.

- For the Data Visualization component, ScienceLogic hosts an instance of Apache Superset that lets you explore and view your data using business intelligence (BI) dashboards. The dashboards and charts in Skylar Analytics are *not* compatible with SL1 dashboards, widgets, or reports.
- For this release, the dashboards and charts in the Data Visualization component contain server-focused metrics and basic network interface metrics (Internal Collections), with more metrics planned for future Skylar Analytics updates.
- For this release, the Anomaly Detection component monitors SL1 Performance Dynamic Applications (all PowerPacks).
- For this release, the Predictive Alerting component monitors filesystems (SNMP, PowerShell, SSH) and network interfaces (utilization, errors, discards).
- The Data Visualization component of Skylar Analytics contains the following default dashboards:
    - Filesystem Overview + Exploration (Sample)
    - Filesystem Statistics (Sample)
    - Filesystem Usage (Sample)
    - Interface Statistics (Sample)
    - Most Significant Resource Changes (Sample)
    - Visualization Variety Testing (Sample)
- The following list contains some of the types of data that SL1 can send to the Skylar AI platform, where the data is analyzed and used by Skylar Automated RCA, anomaly detection, and predictive alerting:
    - Alert and event logs
    - Availability data collected by SL1
    - Business service health, availability, and risk metrics
    - Class-Based Quality-of-Service (CBQoS) metadata and CBQoS time series data
    - Data from Gen 1 SL1 agents, which use the SL1 Distributed Architecture

    - Data from Gen 3 SL1 agents, which use the SL1 Extended Architecture. For more information on how to configure the Gen 3 SL1 agent for Skylar AI, see the ***Monitoring with the SL1 Agent*** manual.
    - Dynamic Application performance data
    - Topology data for L2, L3, CDP, LLDP, and ad hoc relationships between devices
    - DCM(+R) relationships
    - Metadata for web content, SOAP/XML transaction, and domain name monitors
    - Process and service data

- The **Anomaly Detection** page (formerly the **Machine Learning** page) in SL1 now lists every Dynamic Application metric with its Anomaly Detection status, including metrics that will not alert when the anomaly score goes too high.
- Added a new **Skylar Analytics Summary** panel to the **Event Investigator** page to show predictive alerts from Skylar AI. Predictive alerts work like events in SL1, except they forecast when a future event could happen, instead of reporting on an event that has already occurred. The **Skylar Analytics Summary** panel displays a graph of data from Skylar AI that corresponds with the event ID.
- Throughout SL1, references to "Zebrium" have been changed to "Skylar AI."
- Throughout SL1, references to "Machine Learning" and "Metric Anomalies" have both been changed to "Anomaly Detection".
- Added the "Enterprise Database: Skylar Alerts Poller" process to the **Admin Processes** page (System > Settings > Admin Processes). This process polls for all types of existing SL1 alerts, including Skylar AI alerts, and adds the alerts to the corresponding SL1 alert table.

NOTE: Each default dashboard has the word "(Sample)" or "(Skylar)" at the end of its name to show that it is a ScienceLogic dashboard, and also to remind you to duplicate any of these dashboards or charts if you wish to make modifications. They are also owned by the System Administrator ("SA") user. These SA-owned dashboards and charts might be updated by ScienceLogic periodically.

TIP: To view the Skylar Analytics documentation online, see the *Skylar Analytics Product Documentation*.

Known Issues

This release has no known issues.

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