Federatora.ai Release 4.4
Release Notes

January 2021

Contents

Overview

ProphetStor Federator.ai is an AI-based solution that helps enterprises manage, optimize, and auto-scale resources for any applications on Kubernetes. Using advanced machine learning algorithms to predict application workloads, Federator.ai scales the appropriate amount of resources at the right time for optimized application performance.

This document contains the release notes for Federator.ai Release 4.4, including information about new features and enhancements, as well as known issues.

Enhancements in Release 4.4

Integration

- Query metrics from the Sysdig monitoring platform for application workload predictions and recommendations.
- Integrate with the Prometheus open-source monitoring system for application workload predictions and recommendations.

Multi-Cloud Cost Analysis

- Support Spot Instance pricing for multi-cloud cost analysis.
- Provide a cost analysis time series chart that recommends the number and type of instances for future workloads at specific times, which can help minimize resources and costs.

Installation and Configuration

- Provide integration with Ansible playbook to simplify Federator.ai installation.
- Provide a setup wizard to simplify initial system configuration after software installation.
- Provide graphical configuration of applications, clusters, and system settings.
- Support automatic or manual update of cloud service provider price books.

UI Enhancements

- Display cluster and application workload predictions and recommendations on the Dashboard.
- Provide the ability to manage clusters:
    - Add/edit/remove clusters.
    - Start/pause monitoring and prediction for all namespaces or a specific namespace.
    - Stop/start collecting metrics and making predictions for all namespaces or a specific namespace.
- Provide the ability to manage applications:
    - Add/edit/remove applications.
    - Add/edit/remove controllers and consumer groups.
- Provide the ability to add/manage the system license.
- Provide a separate Events page for all clusters.
- Display a new Workload Prediction chart with easy-to-read average/minimum/maximum CPU and memory usage, as well as recommendations.

Supported Metrics Data Sources

- Prometheus
- Datadog
- Sysdig

Supported Platforms

- Kubernetes v1.11.x – v1.19.x
- Red Hat OpenShift – v3.11, v4.x
- Amazon AWS/EKS
- Google GCP/GKE
- Microsoft Azure/AKS

Known Issues

- Sysdig does not support metrics for Disk IO Utilization and Pod Running Status Count. Therefore, no data will be displayed on the *Cluster Health* and *Node Health* pages in the web portal.
- Autoscaling with the Datadog Watermark Pod Autoscaler (WPA) is not supported for *DeploymentConfig* controllers in OpenShift.