IBM Edge Application Manager 4.2 expands support options, increases hub client capacity, and improves scalability, strengthening autonomous management of edge workloads for continuous operations and faster actions

Table of contents

At a glance

IBM(R) Edge Application Manager 4.2 brings enterprise computing power to the edge where data resides. New features in version 4.2:

- Improved scalability with a maximum of 30,000 edge endpoints per edge hub

- Support for multitenancy with a maximum of 1,000 organizations from a single management hub

- Security-rich edge node onboarding through Intel(TM) secure device onboarding (SDO)

- Support for Red Hat(R) Enterprise Linux(R) OS on edge nodes for improved compliance

- Improved UI-based debugging to simplify problem determination

- Red Hat OpenShift(R) Support 4.5 for portability and flexibility of edge workloads

Overview

IBM Edge Application Manager offers a powerful solution for issues that require enterprise computing power at the edge of the cloud, closer to where data is created and where actions need to be taken.

Traditional management solutions are not designed for autonomous management to handle the scale, variability, and rate of change of edge deployment environments.

With the IBM Edge Application Manager autonomous management capabilities, negotiation, agreement, implementation, and ongoing validation of workload management tasks are handled directly between IBM Edge Application Manager and edge endpoints (servers, clusters, and devices) by using a lightweight edge agent. These actions are based on administrator intent, but without administrator intervention, even during new edge endpoint onboarding.

The IBM Edge Application Manager autonomous management capabilities are specifically designed to address the scale, variability, and rate of change of edge deployment topologies. Built on Red Hat OpenShift, IBM Edge Application Manager offers client flexibility and choice as the cornerstone of your edge strategy.

IBM Edge Application Manager 4.2 includes:

- Edge computing for edge clusters:
  - Kubernetes-enabled workload orchestration for elastic scale and continuous operations
- Edge computing for edge devices:
  - Workload isolation at the device
- Autonomous policy-driven service (workload) placement.
- Model and version management sync service from the cloud to the edge.
- Multitenancy support for up to 1,000 different organizations.
- Scalability. IBM Edge Application Manager scales up to 30,000 devices, which enables businesses to scale their solutions to address their computing needs.
- Support for Red Hat OpenShift Container Platform 4.5, including the management hub installation. IBM Edge Application Manager supports one of the leading open platforms with an enterprise solution for the edge.
- Support for Debian OS, an operating system that uses the Linux kernel and is composed of open source software.
- Agent installation of SSH. IBM Edge Application Manager helps enable easier deployment of software across thousands of devices.
- Enhanced UI capabilities to handle edge cluster:
  - Import, verify, and view cluster availability and status
  - IBM Edge Application Manager agents to run on clusters
- Autonomous workload deployment:
  - Provides the capability to deploy workloads to desired edge clusters and devices concisely from IBM Edge Application Manager UI
- Enhanced enterprise security and compliance to your workloads running at the edge (clusters or devices).
- Improved observability through the IBM Edge Application Manager UI:
  - Monitor and obtain view of your edge endpoints ecosystem.
- Improved error handling through IBM Edge Application Manager UI for ease of use.
- Policy based scaling:
  - Scale with minimal CPU usage consumed

Key requirements

IBM Edge Application Management Hub 4.2 requires Red Hat OpenShift Container Platform 4.5.

For more information, see the Software requirements section.

Planned availability date

October 30, 2020

Accessibility by people with disabilities

Accessibility Compliance Reports (previously known as a VPAT) containing details on accessibility compliance to standards, including the Worldwide Consortium Web Content Accessibility Guidelines, European Standard EN 301 349, and US Section 508, can be found on the IBM Accessibility Conformance Report Request website.

Reference information

For more information about IBM Edge Application Manager, see Software Announcement 220-285, dated June 16, 2020.

Program number

Program number	VRM	Program name
5737-M71	4.2.0	IBM Edge Application Manager

Offering Information

Product information is available on the IBM Offering Information website.

More information is also available on the Passport Advantage(R) and Passport Advantage Express(R) website.

Publications

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Technical information

Specified operating environment

Software requirements

IBM Edge Application Manager requires Red Hat OpenShift Platform 4.5, for the management hub and edge clusters. Edge devices require docker.

For more information see the Sizing and system requirements.

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5737-M71	IBM Edge Application Manager	L-DMHE-BRCLE6

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Corrections

(Corrected on November 6, 2020)

Revised At a glance and Overview sections.