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Container-Platform Documentation

Created by Archana Pillai, last modified on Nov 21, 2022

Overview

The Container-Platform provides Rancher Kubernetes Engine (RKE2) as a service to the IBM Cloud IaaS Classic service teams to deploy, manage, and monitor containerized applications. The Container-Platform aims to provide a unified solution to offload most day-to-day tasks and allow the service teams to focus on their core competencies.

Once the service teams deploy their application, they become tenants of the Container-Platform, and the platform acts as a service provider to the tenants.

> ❗ **Important**
> Service teams are onboarded to the Container-Platform through an onboarding process that begins with an onboarding request.

The Container-Platform provides the following key features:

- High availability (HA) for services that have to be highly available hosted in the under-cloud. HA implies deployment or stateful sets.
- Handle certificate management for the tenants
- Handle ingress routes through a LoadBalancer for the tenants
- Integrate with a central control mechanism to manage authentication, access, and roles
- Integrate with a monitoring system to provide near real-time metrics
- Integrate with a logging system to diagnose issues when they occur
- Maintain security and separation of contexts for compliance purposes

> ⚠ **Note:**
> The Container-Platform will only handle internal workloads.

Supported Third Party Software

The following is a list of third party software supported on the Container-Platform:

Software	Version
Rancher Management application	2.6.4
Rancher Kubernetes Engine (RKE2)	1.23.3~rke2r1-0.el8
Cert Manager	v1.7.1
Netapp Triden	21.07.2
Coredns ExternalDNS plugin	v1.8.5-build20211119
Citrix Ingress Controller	1.24.4
FluentBit	1.8.13
Prometheus	v2.28.1

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> ⚠️ **Note:**
> The software version numbers are specific to the images available on the
> Container Platform Sandbox environment.

Related Documentation

- Getting Started
- Container-Platform Architecture

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