IBM **Cloud Pak for Integration**

What's new in CP4I 2020.4.1

December 2020

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Cloud Pak for Integration

Broadest integration capabilities

Unified experience, operational efficiency & reuse

—

Deploy where needed

Container-based architecture with common enterprise services

—

Enterprise-grade

Secure, scalable, resilient

API Lifecycle Management

Application & Data Integration

Enterprise Messaging

Event Streaming

High Speed Data Transfer

Secure Gateway

What Differentiates CP4I 2020 from its Components?

Value	Use Case	Unique Feature
Accelerate development saving time, skills and resource *Makes integration developers productive with the **multiple styles of integration** needed for digital business*	Enable a user to build a solution comprising multiple components & styles of integration from a single console with templates/flows that accomplish common objectives Faster Time to Value through Re-use . Build, store and share all types of integration assets (e.g. Schemas, APIs, flows) for re-use across the organization. Enable developers to easily: • Access assets through Git repository • Find available assets through search & tagging functions • Share assets through simple, intelligent visual editing	• Platform Navigator *(unified UI with Common Patterns)* • Asset Repository
Increase productivity with simplified operations and faster deployment *Secure and scalable cloud-native platform with common logging, monitoring, troubleshooting and security.*	Enable end-to-end tracing & troubleshooting across components within the platform Install and configure the components needed easily, with updates and patches delivered automatically, and convenient upgrade for all components	• Operations Dashboard • 100% deployed as Operators
Open new digital engagement models to drive business growth	Helps users build applications that can respond to events in real-time to deliver more engaging customer experiences Integrate apps and data and build APIs faster, providing users with intelligent, customized data map suggestions as they develop integrations	• Event Streams (only in CP4I) • AI-powered Mapping Assist

Your opportunity to transform

Developer Agility

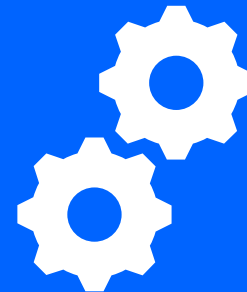Streamline development processes with CI/CD pipelines

Adopt Multi-Cloud

Rely on your choice of proven fast, secure and reliable communication to integrate your clouds and data centers
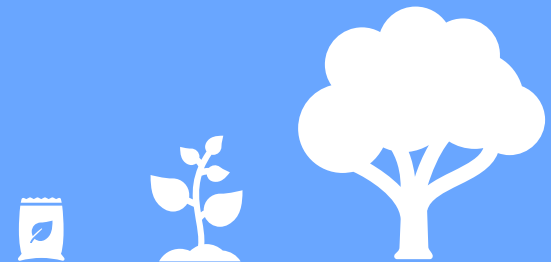
Operational Agility

Automate deployment of integration designed as containers. Enable evergreen deployments with automated regression testing

Organic Growth

Rethink topologies to ensure cloud level availability and scale through active/active application and deployment patterns

CP4I 2020.4.1 – What's in the release?

- ✓ Support for OpenShift 4.6 EUS release providing longer supported deployment

- ✓ Limited entitlement to components of IBM Storage Suite for IBM Cloud Paks

- ✓ Added support for deploying the Integration Module in Cloud Pak for Integration as a part of DataPower Gateway Virtual Edition

- ✓ Enhanced operators for some of the components in Cloud Pak for Integration

- ✓ Event Driven flows in App Connect Designer

- ✓ Inclusion of a script to simplify building a demo environment

- ✓ Additional smart connectors for use in App Connect

- ✓ Enhanced support for components like Istio and deployment technologies to support license management

- ✓ Install in an air-gapped network without a bastion host, using a portable storage device

- ✓ Cluster admins can now specify their own logging stack, and therefore not use the logging from Common Services

Now also available
- Quick Start for Cloud Pak for Integration on AWS
- Confluent Platform now a deployment choice for Kafka

Support for Red Hat OpenShift 4.6 EUS
Extended Update Support Release

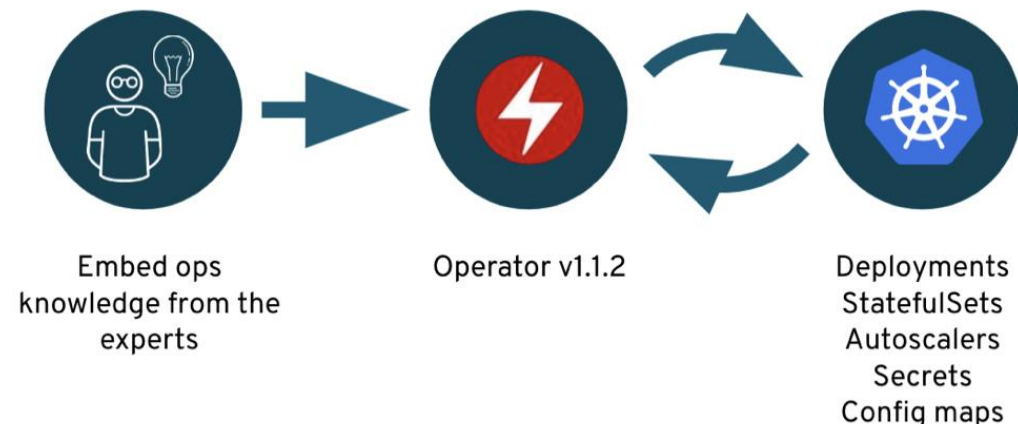| Version	GA Date	Support ends
CP4I 2020.4.1	11th December 2020	31st March 2022

- ✓ Cloud Pak for Integration is built for deployment on Red Hat OpenShift Container Platform
  - ✓ Support model for Cloud Pak for Integration releases follows the support approach of OpenShift
  - ✓ Cloud Pak for Integration can only be supported on a supported OpenShift release
- ✓ The support model drives a rapid lifecycle, with releases typically supported for 6-9 months maximum
  - ✓ Modern development and deployment approaches, supported by Kubernetes Operators helps components to be separately updated to newer releases and deployed without negative impact
- ✓ The OpenShift 4.6 EUS release provides a longer support lifecycle, lasting until 14 months after the release of OpenShift 4.7
  - ✓ Cloud Pak for Integration 2020.4.1 will also be an EUS (Extended Update Support) release, with support until 31st March 2022, as long as used on an EUS compliant OpenShift 4.6 cluster

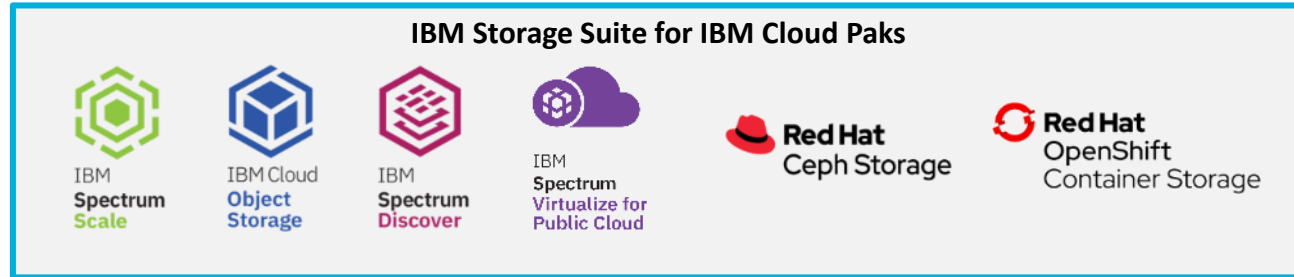| Version	GA Date	Full Support Ends	Maintenance Support ends
OpenShift 4.6 EUS	27th October 2020	Release of OCP 4.7 +1 month	Release of 4.7 + 14 months

Enhanced support for Operators
Configuration and deployment faster, with fewer errors

✓ An Operator is a method of packaging, deploying and managing a Kubernetes-native application

✓ Operators reduce the skills required to install and run software in Kubernetes

✓ The 2020.4.1 release builds on and enhances the existing support for Operators which provide the simple and common way to deploy and operate all the components in Cloud Pak for Integration
  ✓ Specific improvements in this release include for MQ, API Connect and Event Streams

✓ Tooling and UI improvements make it easier for users to install Cloud Pak for Integration with minimal expertise

✓ Cloud Pak for Integration capabilities and be defined, then deployed as required

✓ There is added user-assistance and feedback (guard-rails) to reduce errors

Embed ops
knowledge from the
experts

Operator v1.1.2

Deployments
StatefulSets
Autoscalers
Secrets
Config maps

Limited entitlement to IBM Storage Suite for IBM Cloud Paks

IBM Storage Suite for IBM Cloud Paks

IBM **Spectrum Scale** | IBM Cloud **Object Storage** | IBM **Spectrum Discover** | IBM **Spectrum Virtualize for Public Cloud** | **Red Hat** Ceph Storage | **Red Hat** OpenShift Container Storage
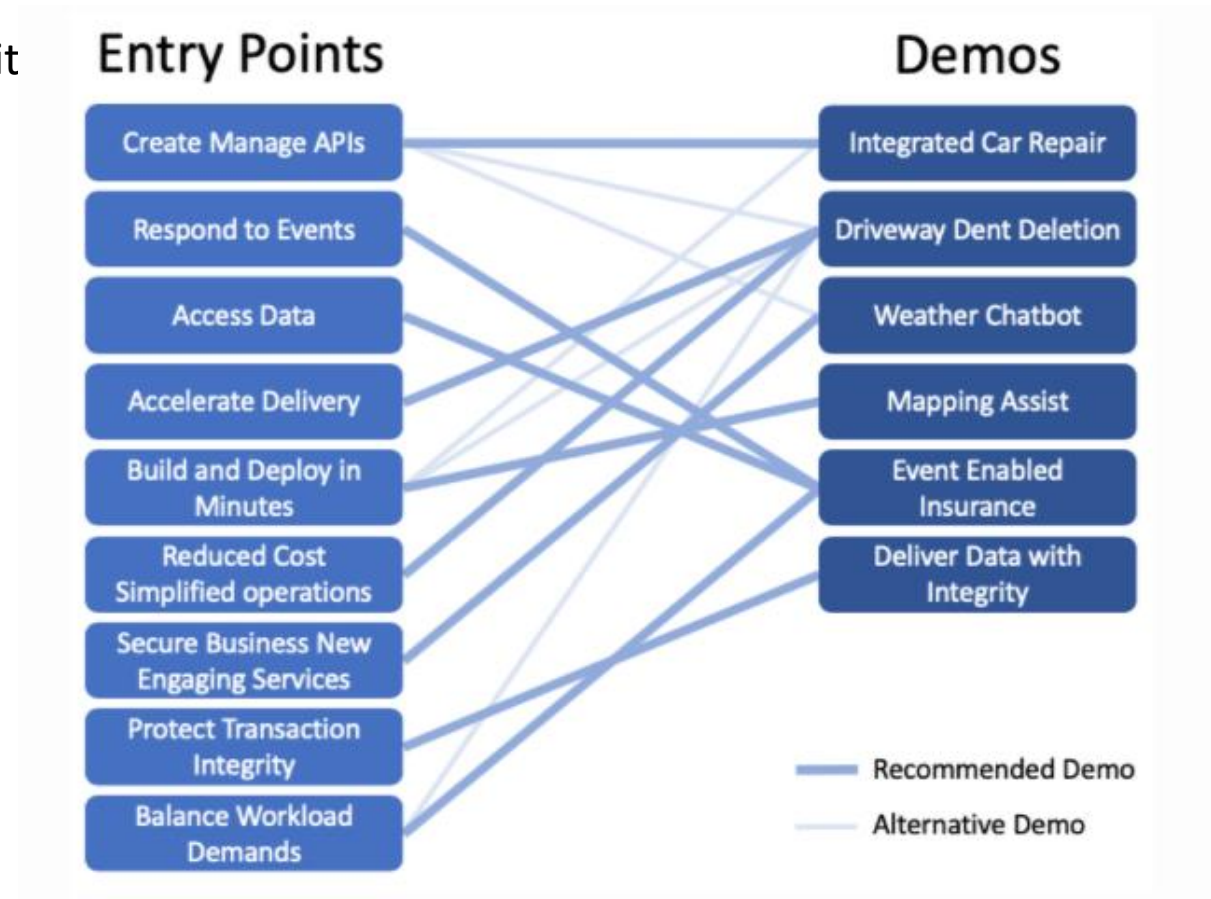
✓ IBM Storage Suite for IBM Cloud Paks offers a range of software-defined storage options ideal for use in Kubernetes deployments

✓ Cloud Pak for Integration now includes limited entitlement to Storage Suite for Cloud Paks
  ✓ Entitlement is limited to 12TB for Red Hat OpenShift Container Storage, and 12 TB in total for the other included storage options (Spectrum Scale, Spectrum Discover, Spectrum Virtualize for Public Cloud)
  ✓ Entitlement ends after 36 months
  ✓ Only one entitlement per customer
  ✓ Does not include entitlement to IBM Cloud Object Storage or Red Hat Ceph Storage

✓ Additional entitlement to IBM Storage Suite for IBM Cloud Paks can be purchased to add capacity or to use beyond 36 months

Access to demo material for CP4I
Worked demo examples and source content

✓ Understand what Cloud Pak for Integration can do by seeing it in action

✓ Access to worked demo examples
  ✓ https://w3.ibm.com/w3publisher/cp4idemos/

✓ Access to demo source material on github
  ✓ https://github.com/IBM/cp4i-demos

✓ Includes a 'one-click' installer script to bootstrap the demo environment for easier and faster access to demos

✓ Access to a 60-day trial for CP4I on IBM Cloud
  ✓ https://www.ibm.com/account/reg/uk-en/signup?formid=urx-46640

✓ Videos of demos, and access to Hands-on Labs
  ✓ https://www.ibm.com/demos/collection/Cloud-Pak-for-Integration/

Inclusion of DataPower Integration module
Enhances DataPower deployable operator

✓ Included in the DataPower entitlement ratio at no additional cost

✓ Enabled deployment and use of Integration Module previously only available for standalone DataPower deployments, and previously only available at additional cost
   ✓ No change in DataPower ratio for CP4I VPCs

✓ Included in the deployment of the DataPower Gateway Virtual Edition image

   ✓ Adds support for any-any connectivity

   ✓ Enables connectivity to a database and execution of read/write SQL commands

   ✓ Includes IMS integration

Custom pod label and node placements
Manage deployment of CP4I on OpenShift

✓ In Kubernetes environments like OpenShift one or more containers are deployed in pods, which have access to the same physical resources

✓ In Kubernetes a node is typically a physical or virtual machine. A set of nodes is normally managed as a cluster

✓ Initially supported in the 2020.3.1 release of Cloud Pak for Integration, with the 2020.4.1 release custom labels for pods and deployments into specified nodes can be extended with the additional support for API Connect and Operations Dashboard deployments, which helps with reporting on deployment and licensing
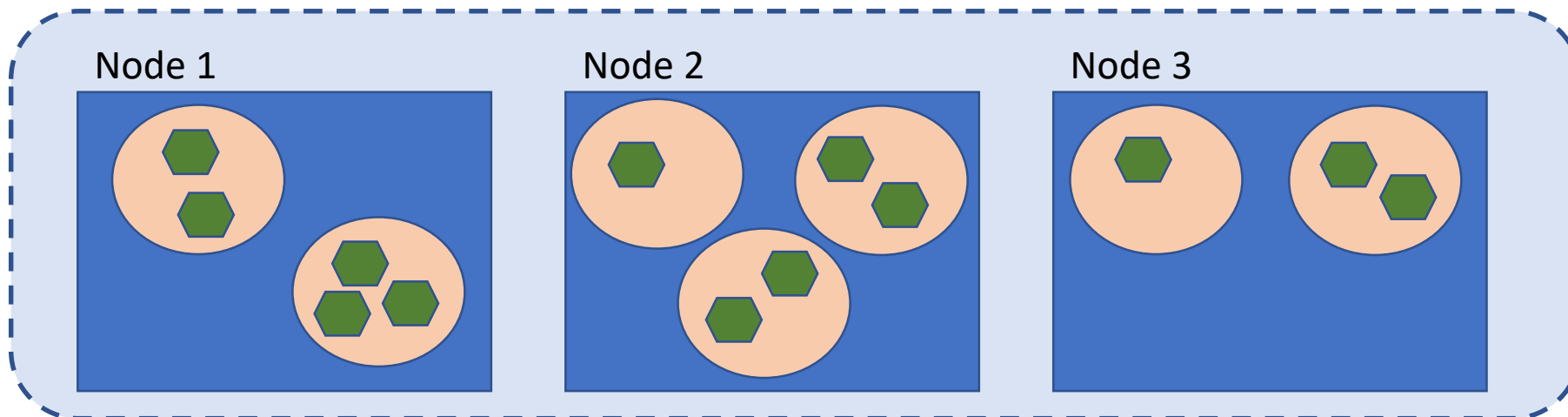
Container

Pod

Node

Node 1

Node 2

Node 3
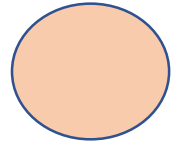
OpenShift cluster with 3 nodes

Event Driven flows in App Connect Designer
Take advantage of new Kafka Connector

✓ Trigger business response through integration based on Kafka events

✓ Respond more quickly as a business to events
  - ✓ Create event-driven flows in App Connect Designer
  - ✓ Deploy these flows using the App Connect Dashboard

✓ Events driven by application activity move through integration flow to trigger specific actions to drive business response

✓ Events coming from a Kafka broker can be consumed using the new Kafka connector for Kafka events

✓ Other new connectors available include Amazon Dynamo DB, Jenkins, IBM Sterling Inventory Visibility, and Dropbox
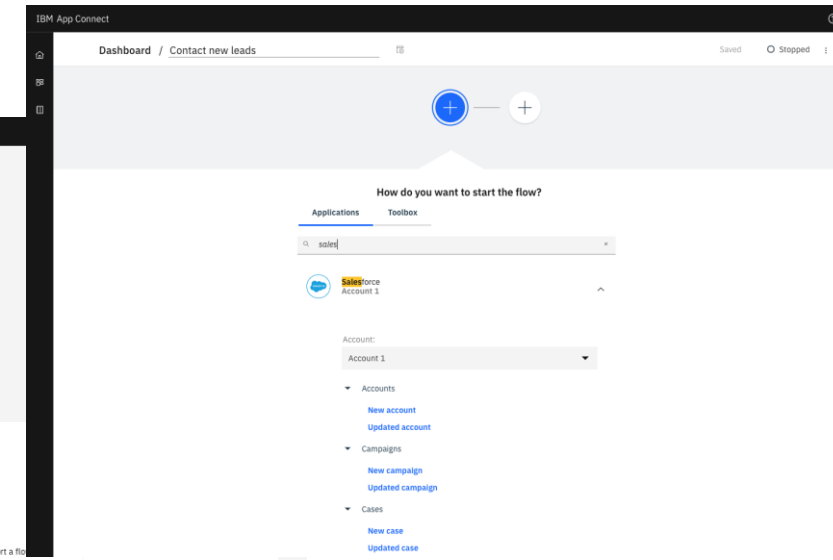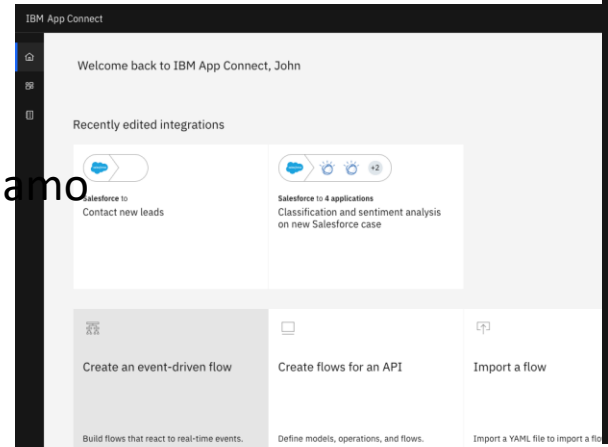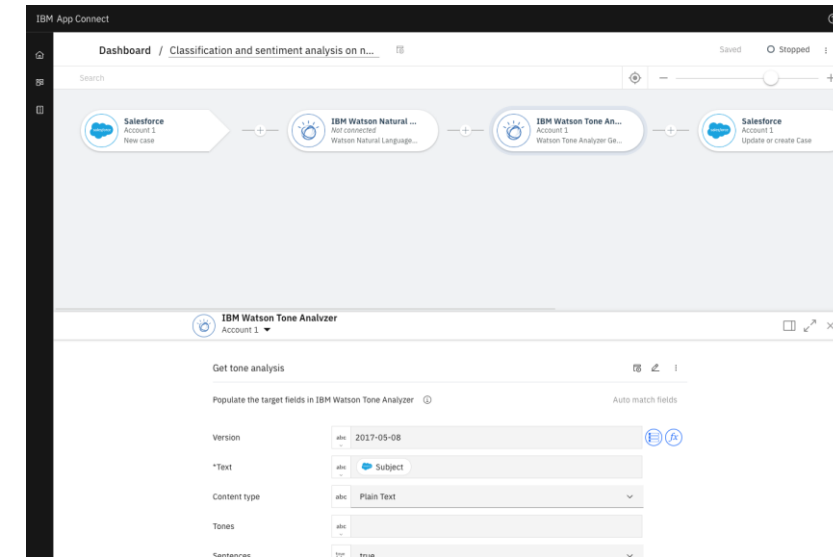
Cloud Pak for Integration AWS QuickStart

Quick Start for Cloud Pak for Integration on AWS

✓ Fastest way to get started for a deployment of CP4I on AWS public cloud

✓ Deploys a highly available architecture spanning 1 or 3 Availability zones

✓ Includes source code to aid understanding, and to make it simpler to configure and deploy your own preferred configuration

✓ Includes both classic load balancer and network load balancer

https://aws.amazon.com/quickstart/architecture/ibm-cloud-pak-for-integration/
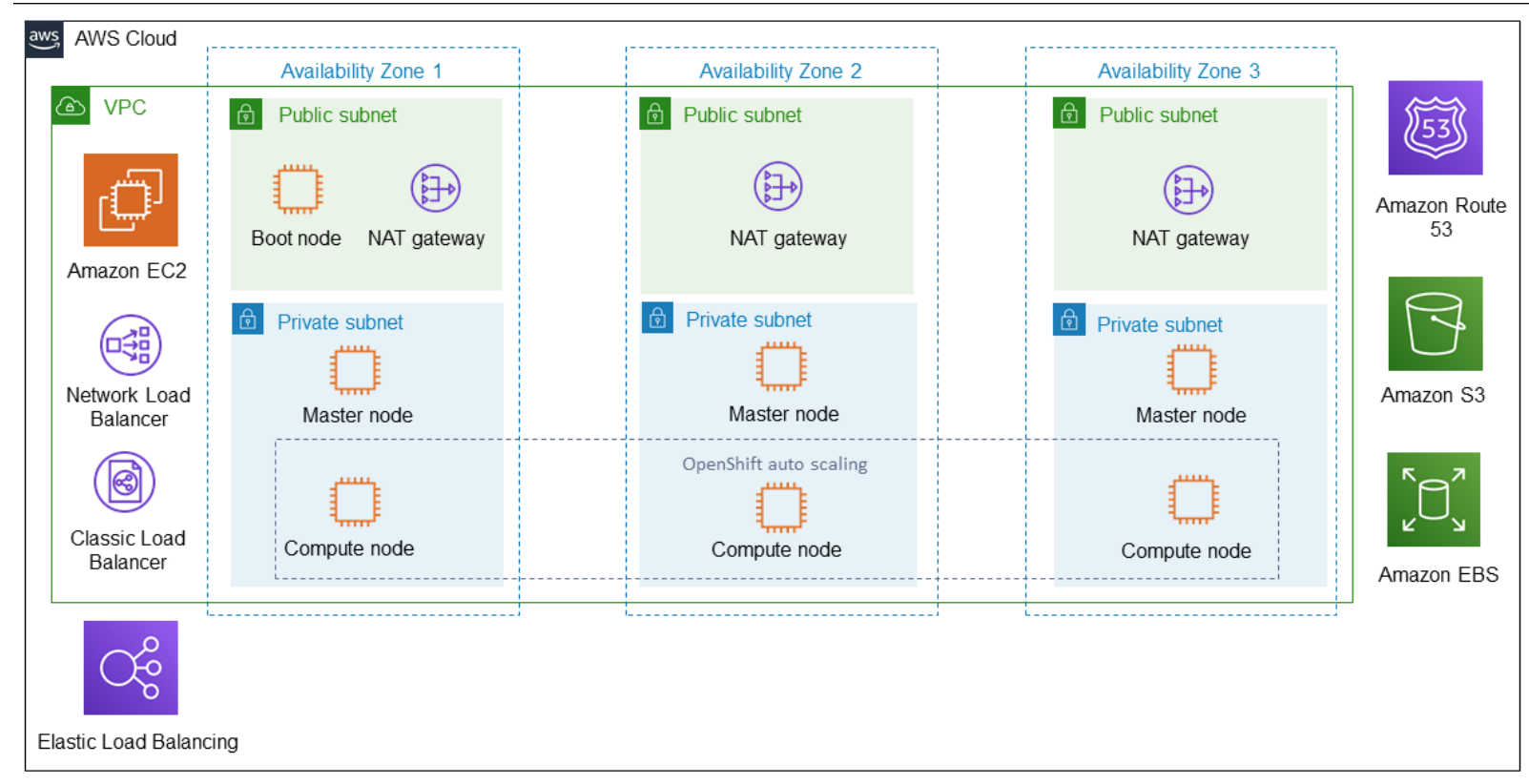
Cloud Pak for Integration & Confluent

A New Partnership to Drive Innovation

IBM

Digital Business Demands a New Level of Agility

React to events in real time, as they happen

Deliver **responsive** & **personalised** customer experiences

Uncover new **insights** about your business & respond **fast**

*Get data to where it's needed, **before** it's needed*

The Rise of Event Streaming

60%

Fortune 100 Companies
Using Apache Kafka

IBM Cloud Pak for Integration with Confluent

Governance

Unified User Experience

Asset Sharing

IBM. Cloud Pak for Integration

API Lifecycle Management

Application & Data Integration

Enterprise Messaging

High Speed Data Transfer

Event Streaming

Secure Gateway

IBM containerized software

Container platform and operational services Red Hat OpenShift

Cloud

Hybrid

On-premises

CONFLUENT

Cloud Pak for Integration, in partnership with Confluent, provides the broadest range of integration capabilities on the market.

As part of our commitment to flexibility, we now offer customers the choice of Kafka providers, while creating new cross-platform connectivity.

IBM Cloud Pak for Integration with Confluent

IBM Cloud Pak for Integration

Broadest integration capabilities

Unified experience, operational efficiency & reuse

–

Deploy where needed

Container-based architecture with common enterprise services

–

Enterprise-grade

Secure, scalable, resilient

+

CONFLUENT

Functionally rich event streaming capabilities

Access to over 100 connectors, ksqlDB, Tiered Storage, and more

–

Original Kafka Creators

Confluent team wrote 80% of Kafka commits and has 1M hours of technical experience with Kafka

–

Enterprise-grade

Deploy at scale with enterprise-grade security

The market's **broadest** and **leading** set of integration capabilities.

Benefits of Confluent + CP4I

- ✓ IBM Cloud Pak for Integration and Confluent bring together market-leading integration capabilities to support a broad range of integration styles and use cases.

- ✓ Confluent Platform is an enterprise-ready platform that complements Kafka with advanced capabilities designed to help accelerate application development, enable digital transformation, and simplify enterprise operations at scale.

- ✓ IBM offers an inclusive integration platform that allows customers choice and flexibility of integration vendors; customers can continue to benefit from IBM's commitment to flexibility, while also taking advantage of IBM contracting, licensing, and support for Confluent software.

- ✓ Create more personalized, engaging user experiences through real-time data capture and live updates (e.g. taxi locations, parcel arrival times, order status); proactively push data from your backend systems to your APIs before it's required to make your applications more responsive.

- ✓ Reduce the cost of building/running integrations and reliably scale as your business grows with the most complete and secure integration environment backed decades of experience.

More Information on this new Partnership

IBM Cloud

Cloud Integration
Webcast Series

Overview

Title: Build Real Time Apps with Confluent & IBM Cloud Pak for Integration

Date: Tuesday, January 12, 2021

Time: 10:00 AM Eastern Standard Time

Duration: 1 hour

Speakers

Savio Rodrigues
VP, IBM Application Platform & Integration Offering Management
IBM

Chris Grim
Head of Americas, Confluent

✓ [Sign up](#) for the Jan 12th webinar co-presented by IBM and Confluent

✓ Read the [announcement blog](#)

✓ Read the [announcement letter](#)

BACKUP