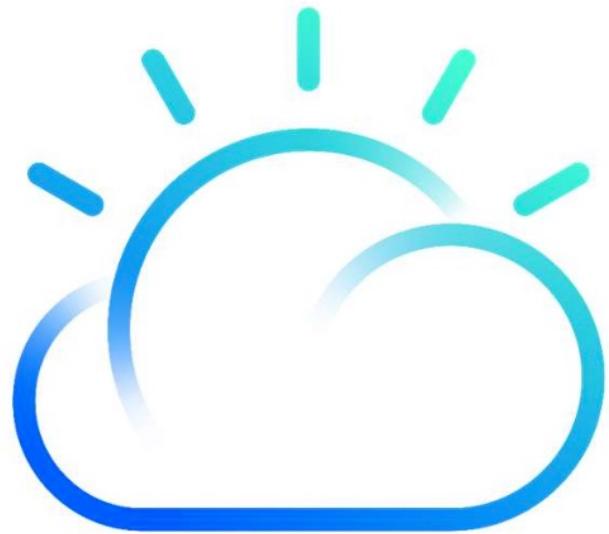


**IBM**



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# **IBM App Connect**

**IBM Cloud**

**Simple**  
**Fast**  
**Secure**



**IBM Cloud Pak For Integration – CP4i** 

Premier Integration Experience



API Connect  
*Lifecycle & Management*



DataPower  
*Secure Access*



App Connect  
*Application Integration*



MQ  
*Enterprise Messaging*



Event Streams  
*Kafka*



Aspera  
*High Speed File Transfer*

Analytics | Security | Governance

On Cloud | Hybrid | On Premises

# A Recap on Integration

## What is Integration:

Integration is how systems and applications are connected to enable the systems and applications to exchange data with each other or with other connected and integrated applications and systems no matter what the data and/or protocols are being used between them

## Why is Integration required:

Integration is required when 2 or more systems and applications need to communicate with each other. Systems need to be integrated for many reasons, such as

- ✓ *getting a single view of customer data that is located across many systems and applications*
- ✓ *Two or more companies merging into a single company that have disparate systems would benefit all the companies by integration of the applications and data*
- ✓ *Digital enablement of systems of records that are hosting company data and transactions*
- ✓ *Gather inflight data such as that used in banking applications cleanse the data, integrate the data into dashboards rendered from analytics engines offering users enhanced views of their data, adding value to customer insights*



## A Recap on Integration

### Who provides integration solutions

#### Integration solution providers:

Many companies provide integration solutions varying in capability, performance, out of the box experience, deployment options etc.

#### How to choose an Integration solution & vendor:

##### **Don't focus on an initial project that might be a simple integration point**

*A vendor solution may do an initial project well but may be limited in extending to other integration points & projects*

##### **Do focus on other potential future integration points & projects**

*Finding out that a vendor cannot do other integration points will lead to higher costs, additional integration products, additional management and skills*

##### **Do choose a vendor that has a strong history and support for integration solutions**

*A vendor that can provide integration for initial and future projects will allow the solution to be extended and scaled to meet future needs*

##### **Don't choose a vendor that has limited deployment options**

*Choosing a vendor that only supports a limited set of deployment options creates lock-in & inflexible architectures*

##### **Do choose a vendor that provides flexibility**

*A vendor that provides integration across many different deployment and architectures will provide proof points for future integration needs, flexibility in moving integration as business needs change*



# Integration in our everyday life

In real life you may or not realize but integration flows are triggered all the time such as:

- When you place an order from your favourite shopping app, the order data then flows to shipping and accounting.
- When you book a hotel from your favourite travel app, the booking data then flows to the hotel's reservation system and to the payment app and to your bank and so on...
- Then the marketing starts notifying you for more deals based on your booking/shopping preferences.

In the modern digital era the flow of data is not only limited in the enterprise boundaries, but also could span different entities or could trigger another flow.



# ***IBM App Connect***

Integrate anything.  
Automate everything



Accelerate your journey  
to the next level with  
***IBM Cloud Pak for  
Integration***



**IBM**

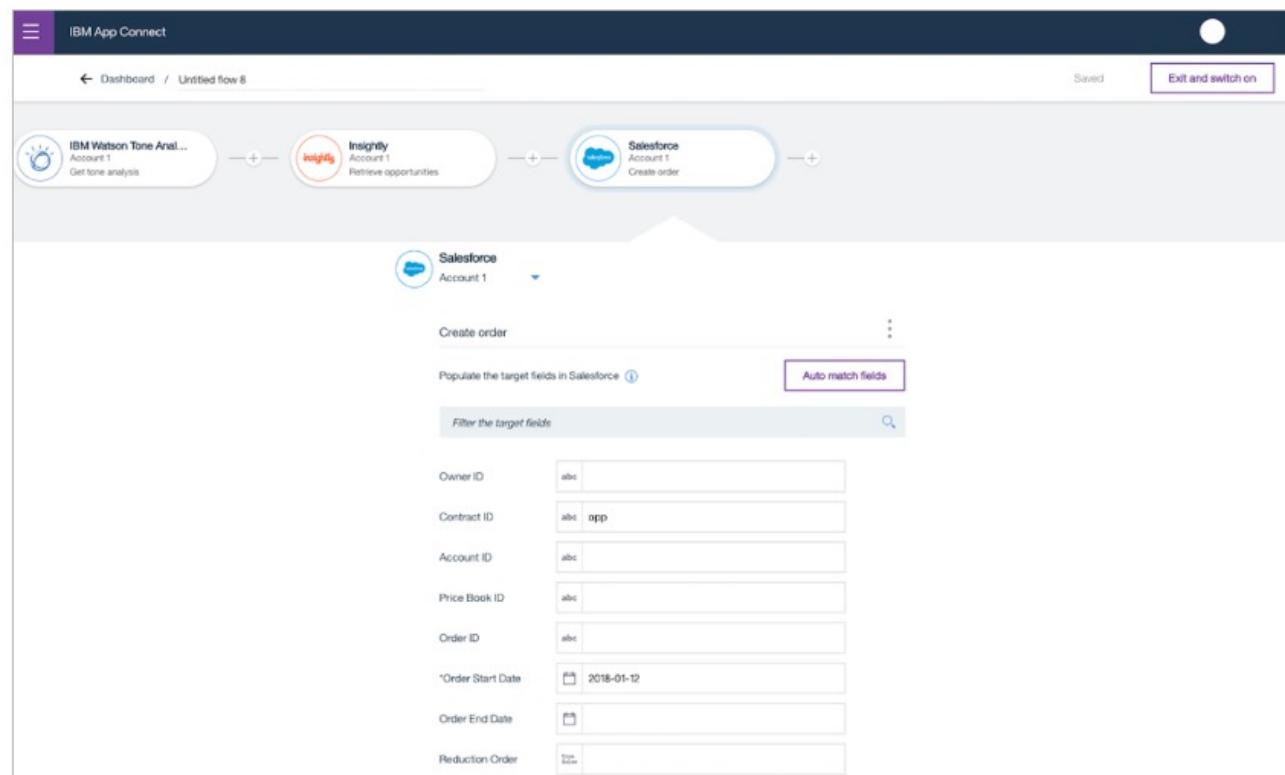
# Application Integration

Integrate applications, build APIs and act on events



IBM App Connect connects your apps, events, data and APIs to quickly automate your business landscape

- **Connect** - securely connect to 100s of apps with out-of-the-box smart connectors
- **Transform** - leverage AI to help map fields and intelligently structure the format of your information
- **Test** - validate flows and ensure quality with visual debugging and generated test cases as part of automated pipelines
- **Operate** - end to end visibility of integration flow operations from any deployment– cloud managed, private cloud, ESB, or microservice



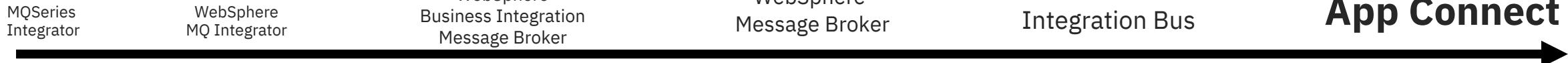
# Powering Enterprises for past 20 years

Continuous innovation and investment

Undisputed market leader in integration space for past 20 years in a row!

*Given the size and relevancy in the market, we continue to invest aggressively to build on our strong heritage as a consistent leader.*

*Evolving rapidly over 2018, delivering new features every quarter in each successive release.*

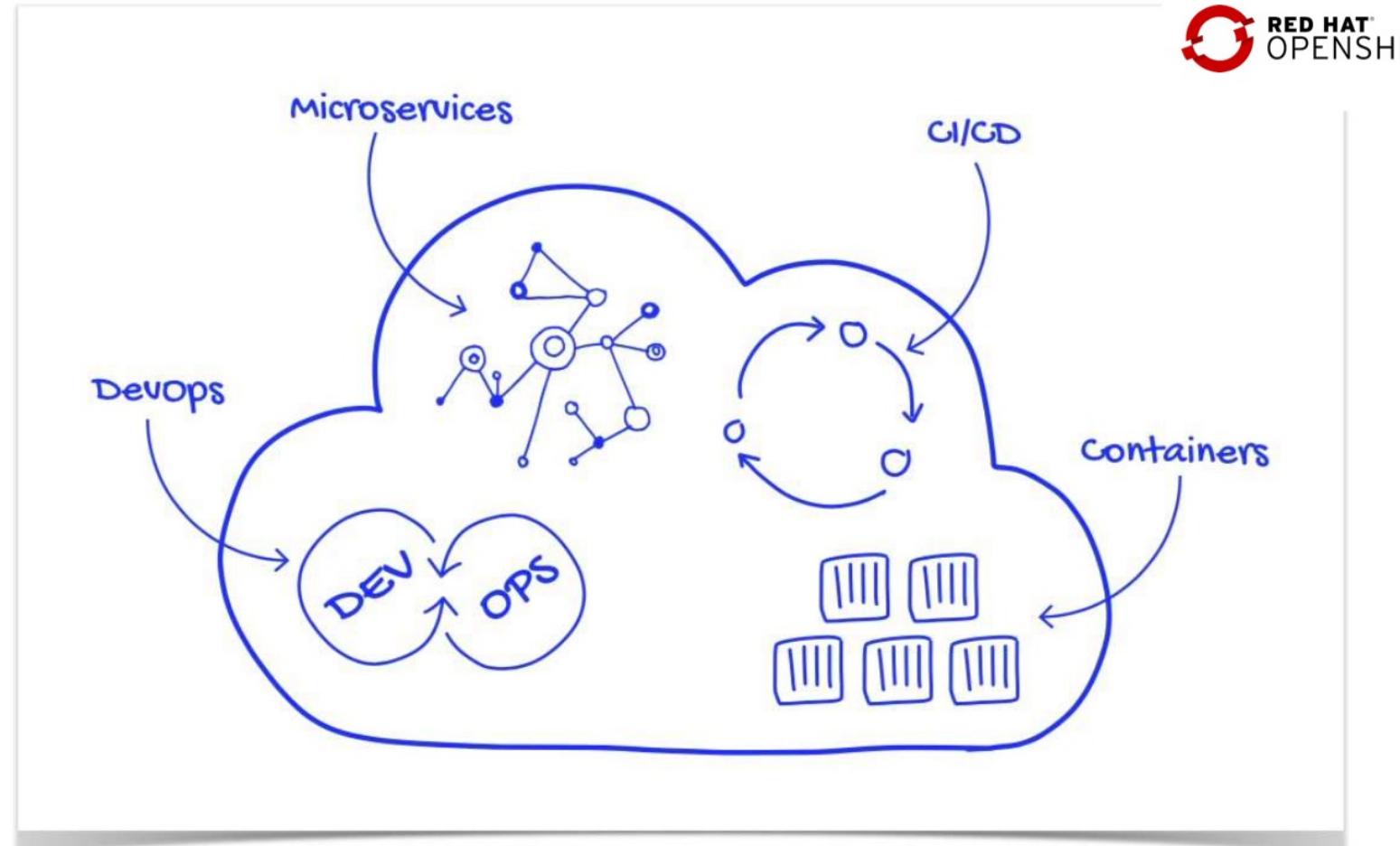




# App Connect Enterprise

*IBM's High Performance  
Integration Solution to integrate  
applications and systems Hybrid,  
On-Prem & Cloud*

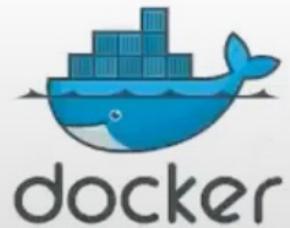
# Re-engineered to be completely Cloud-native ready



- ✓ New micro-service architecture
- ✓ Kubernetes and container native
- ✓ Easy upgrade from IIB v9, v10
- ✓ Automated pipeline deployment ready
- ✓ **Now supported on OpenShift v4.2**

# Long and successful history of running App Connect Enterprise Certified Containers

IBM integration supported Docker containers in 2015



Our certified container is developed in the open available on GitHub:  
[github.com/ot4i/ace-docker](https://github.com/ot4i/ace-docker)



GitHub

It was one of the first certified containers available on IBM's Kubernetes platform, showing how to run integration in a managed container environment.



kubernetes

IBM App Connect is a core component of IBM's Cloud Pak for Integration, providing **integration** for the Integration Platform solution

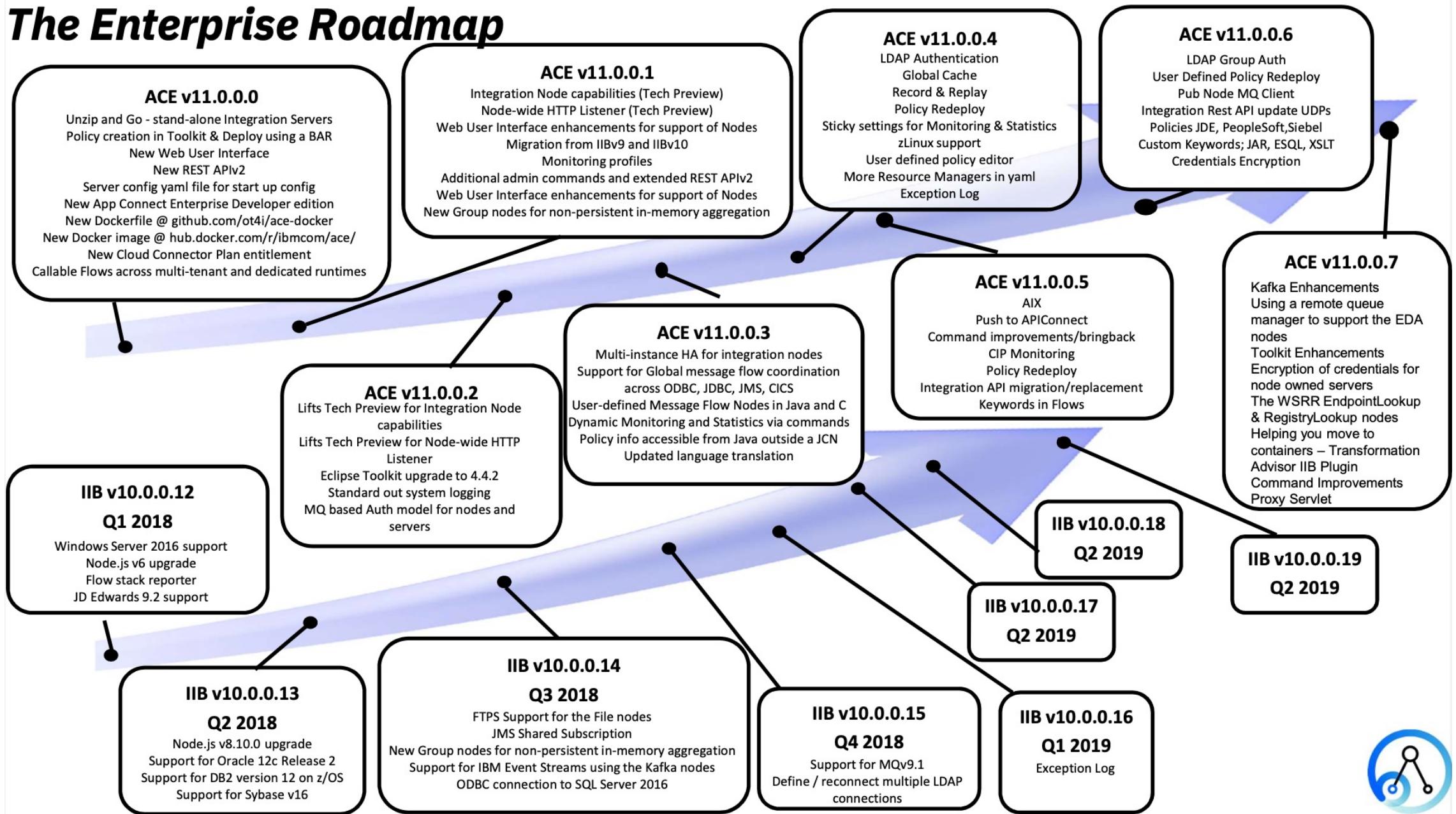


2015

[hub.docker.com/r/ibmcom/ace](https://hub.docker.com/r/ibmcom/ace)    [github.com/ot4i/ace-docker](https://github.com/ot4i/ace-docker)

2020

# The Enterprise Roadmap



# Choose your Containerization journey

## Ad-hoc Container

Build your own integration server Docker image.

Dockerfile on [github.com/ot4i/ace-docker](https://github.com/ot4i/ace-docker)

Use ACE supported base Operating System image.

Use ACEv11 Linux package from Passport Advantage or free Developer Edition

Be Cautious: Issues relating to the running integration server, but not for the custom container



GitHub



docker

## IBM Certified Container

Use IBM provided integration Docker images

IBM provided Docker image using UBI (RHEL) available either from the IBM Cloud Entitled Registry as a supported release, or as a free version from Dockerhub.

Designed to be run with the App Connect Operator on OpenShift.

Only integration server image is supported for use outside of the Operator and OpenShift, e.g. using Docker or Kubernetes



kubernetes



RED HAT  
OPENSHIFT  
Container Platform

## IBM Cloud Pak for Integration

Go beyond application integration!

with API lifecycle, messaging and events, high-speed transfer, and integration security.

With unified experience, operational efficiency & reuse



RED HAT  
OPENSHIFT  
Container Platform

IBM Software  
(Core product functionality)



Base OS Container Image



Deployment/Orchestration  
(Helm chart, Operator)



Platform Services  
(Logging, monitoring etc)

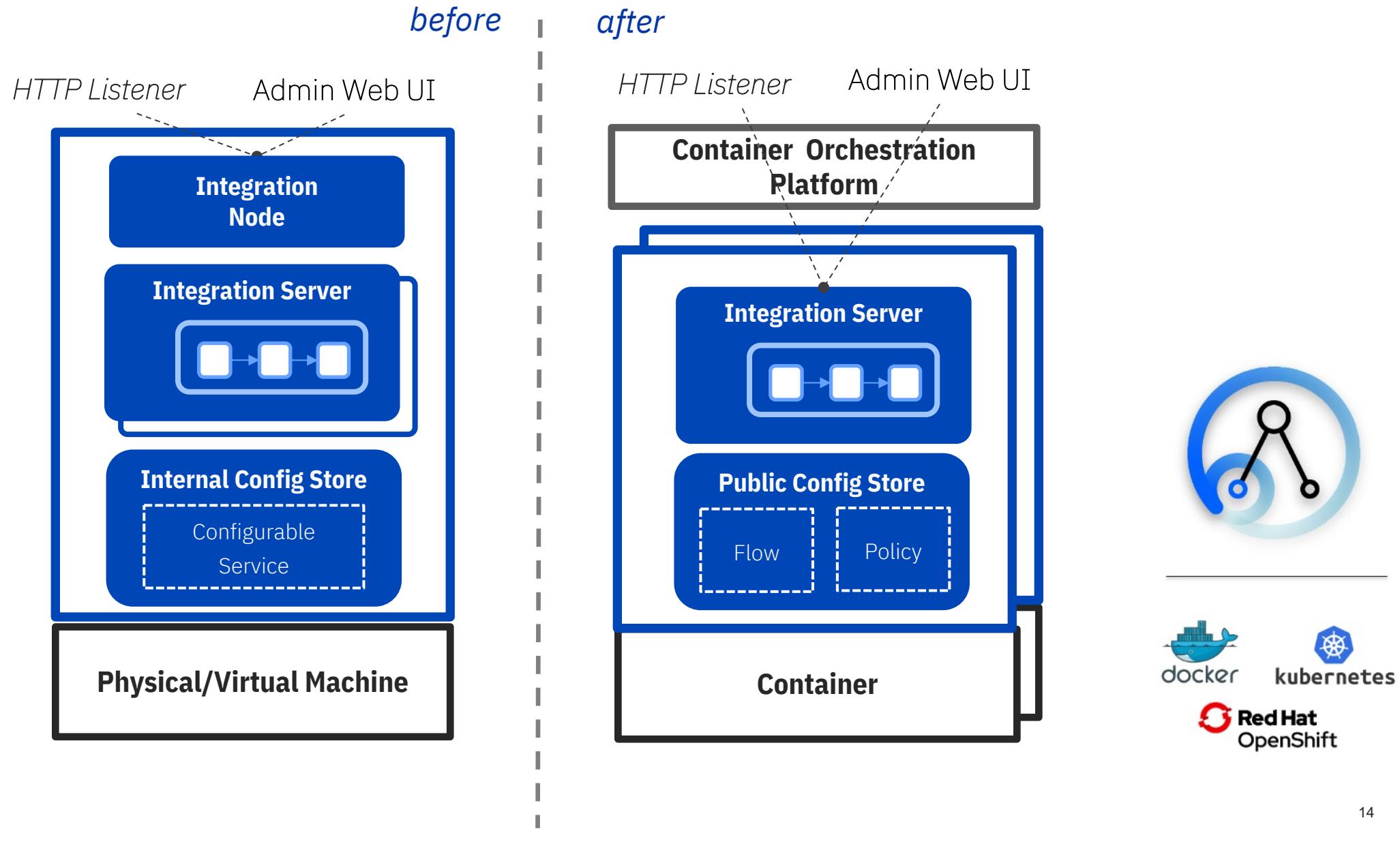


Additional Services  
(asset repo, cross-product tracing)



# Fully engineered 12 factor integration micro services

*How the IIB/ACE architecture has evolved to embrace containers*

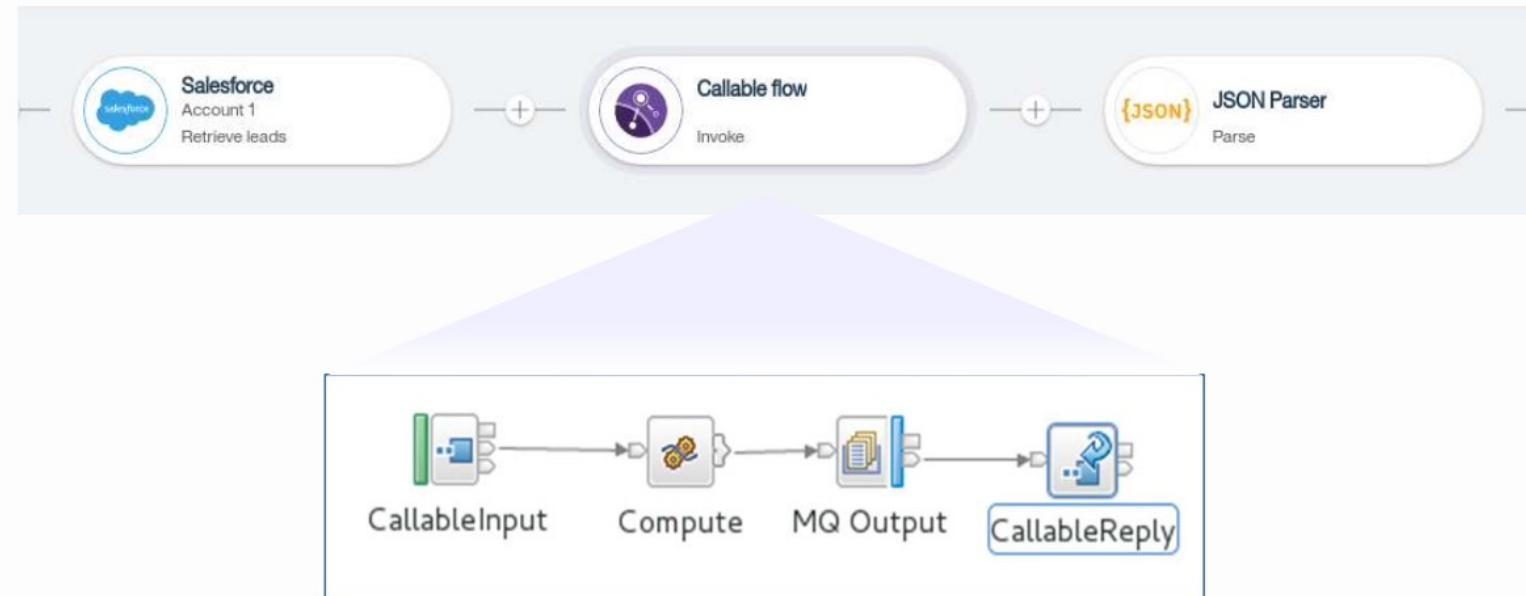


# App Connect – Callable flows

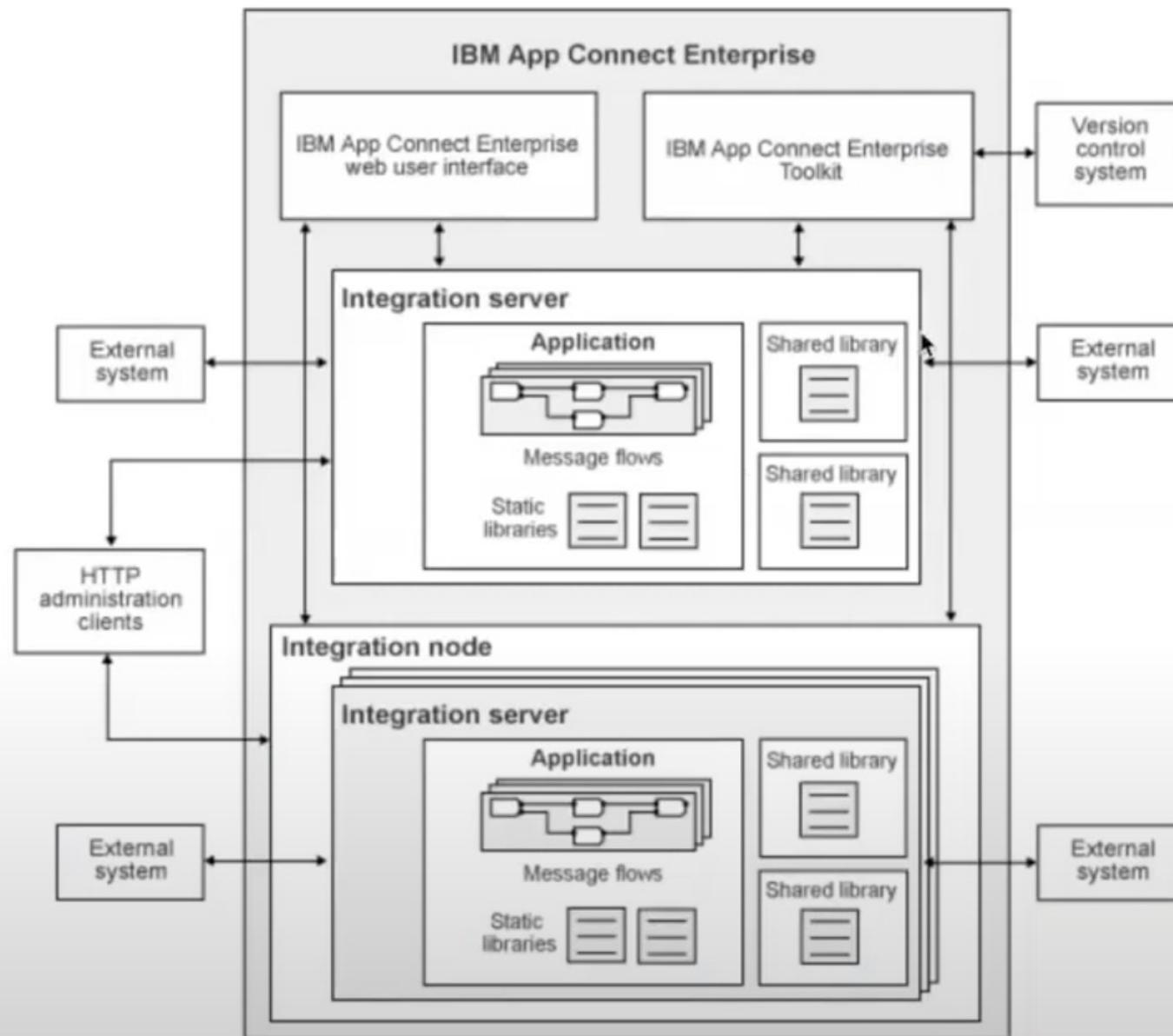


*Supports frictionless  
collaboration between personas*

- Extends pre-v11 capabilities for to interact across a hybrid deployment
- Allows scenarios such as Enterprise flows being triggered by cloud connectors
- Enterprise flows can be on-prem or cloud hosted
- Simpler alternative to publishing a REST API



# Architecture



# **App Connect together with Cloud Pak for Integration**

*overcome integration challenges*

*drive new engagement models  
and digital transformation*



