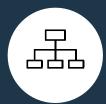
Integrating RPA with App Connect



23rd September 2021











Nigel T. Crowther

RPA Technical Sales - EMEA
Digital Business Automation
ncrowther@uk.ibm.com +44 7480794980

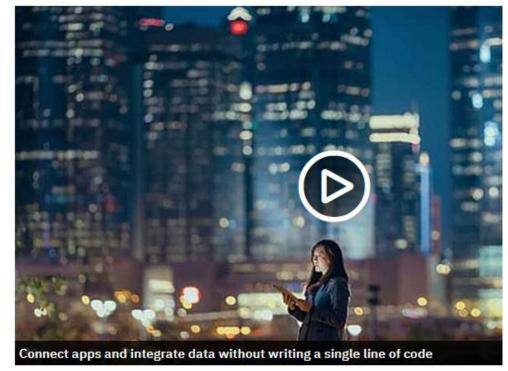
outthink limits

#IBMCloud

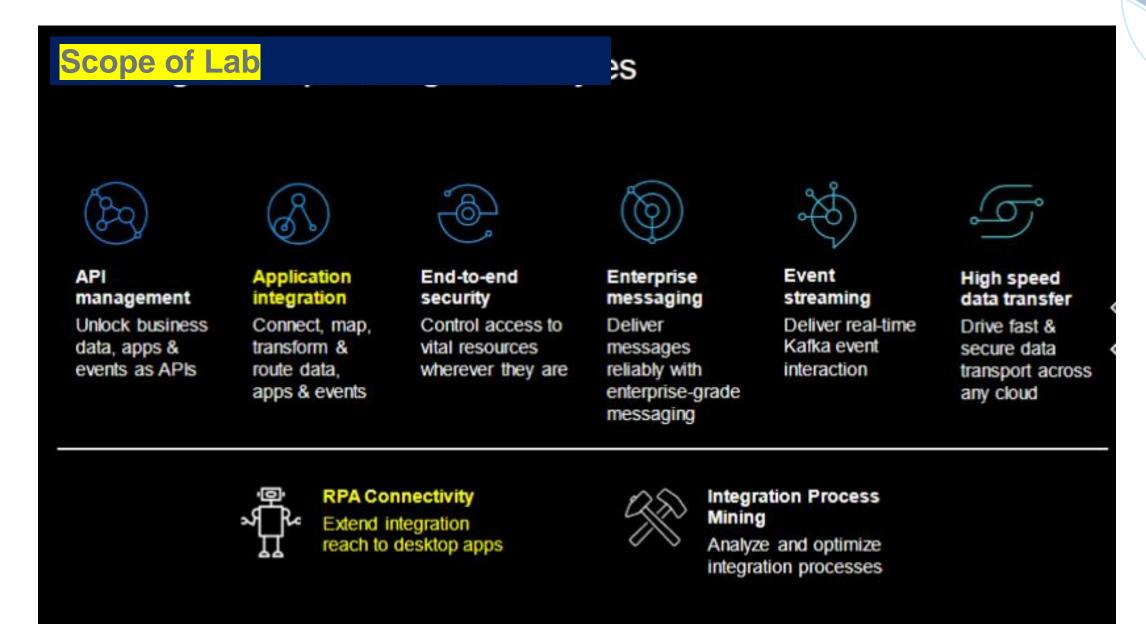


What is IBM App Connect?

Thousands of businesses rely on IBM App Connect to instantly connect applications, data, heritage systems and modern technologies through a variety of integration styles — from traditional service-oriented architectures to modern, agile and event-driven ones — virtualizing access to data wherever it lives for exposure as APIs.



Where RPA sits in CP4I



What is RPA?

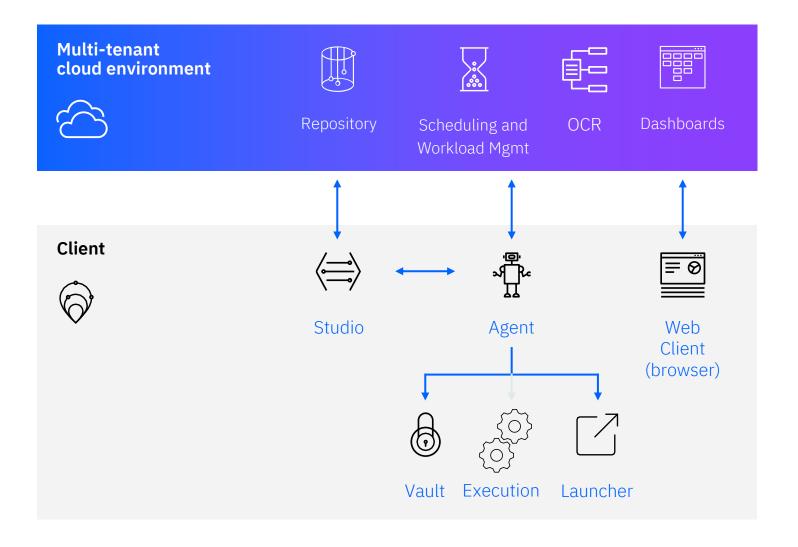
RPA accesses the parts other software cannot reach!

An RPA Bot is just a script that bypasses APIs and goes in via the user interface

The bot script is fronted with a API.

IBM RPA as a Service

High level architecture:



IBM RPA

Product

Capabilities



Unattended/Attended bots

- Unattended automate repetitive tasks without human intervention.
- Attended Enables human workforce to augment work using bots



AI Capabilities

- Drag and Drop AI Commands for extraction, machine learning implementation, and applied knowledgebase AI
- Train Machine Learning engines in a straightforward native manner within Studio



Intelligent virtual agent (IVAs) chatbots

 Combine chat and RPA commands to create chatbots through multiple channels that can provide engaging client interactions.



Concurrent Execution

 Allow for multiple bots to run on the same machine at the exact same time.

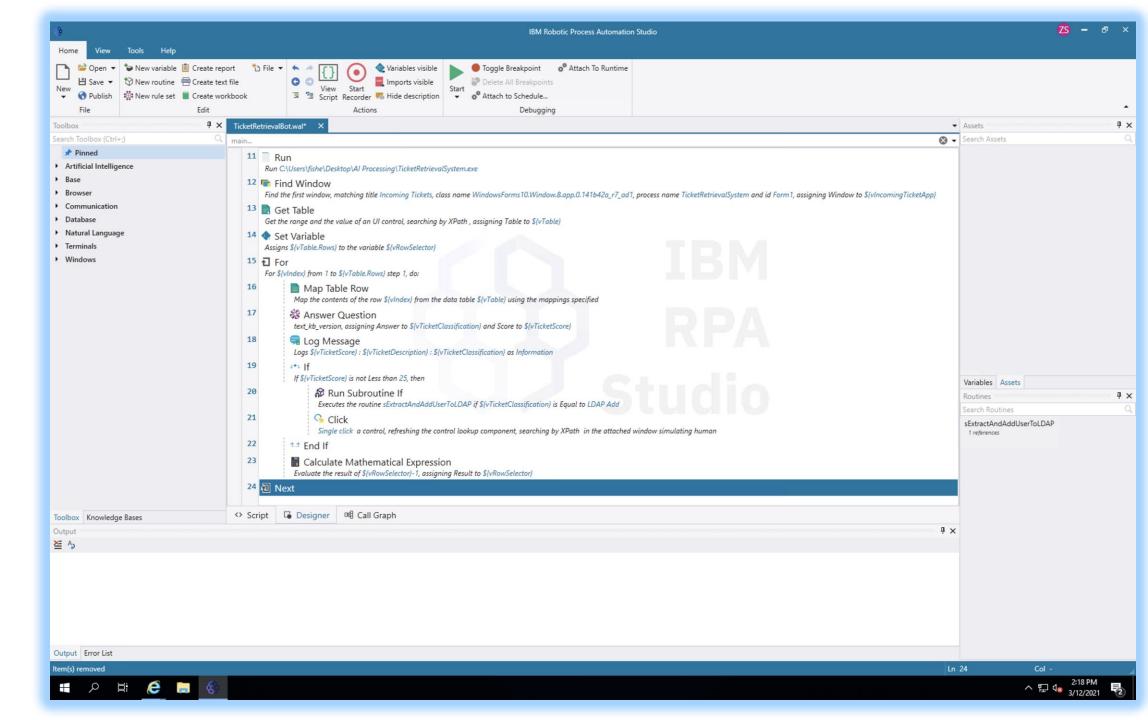


Dashboards

- Gain business insights into business operations.
- Prebuild the dashboards with included easy-to-use creator

IBM RPA

Studio



IBM RPA Differentiators

01

Ease of Use

Low-code enables business users to build bots

02



Integration Points

Integrates with most IBM Cloud Paks, including CP4I.

03





AI Processing

Native NLP and easy to use interface to build an exposable chatbot for both internal and external usage

94



Cost Savings & Scalability

Concurrent Execution allows for "doing more with less". Grow without infrastructure.

Why RPA with App Connect?

App Connect connects systems.

BUT what about legacy systems?

RPA bypasses APIs and goes in via the standard user interface.

App Connect can call RPA via a standard API

App Connect and RPA Opportunities



Customer has App Connect and integration point with no API

Use RPA with App Connect if you need to connect to systems without APIs

Customer has RPA and complex integration

Use App Connect with RPA if you have complex integration requirements

Real Example: Customer Refunds

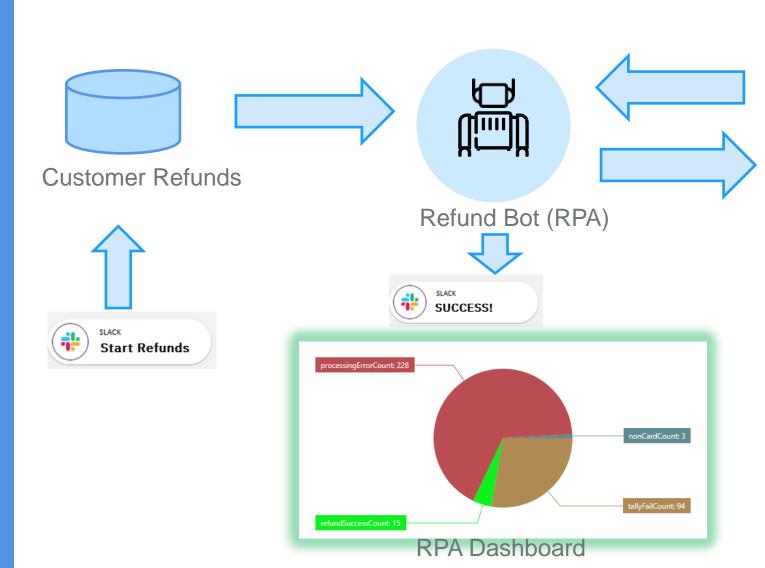
- Travel company affected by Covid
- Overloaded issuing manual refunds

- Refunds could not be automated through API
- Solution was RPA

This use case combines IBM RPA and App Connect

Real Example: Customer Refunds





<	Refund Ticket		Abort
CANCELLED - XXB00002 - 16/02/21			
Manual Overrides			
Override reason:	(D) Displaced Passenger	Overridden by: ChrisCT	
Override description:	Covid		
Override of refundable amount is not currently allowed for amended tickets			
Select refund type	Manual refund	Original payment method	
Refund across multiple payment types required. All or a portion of this refund must be processed outside of this application			
Summary of refund			
Previously paid Extras	£25.00 £25.00 ×		
Refund to NX Credit Ager Total Refundable	et -£25.00 -£25.00		

Web Site

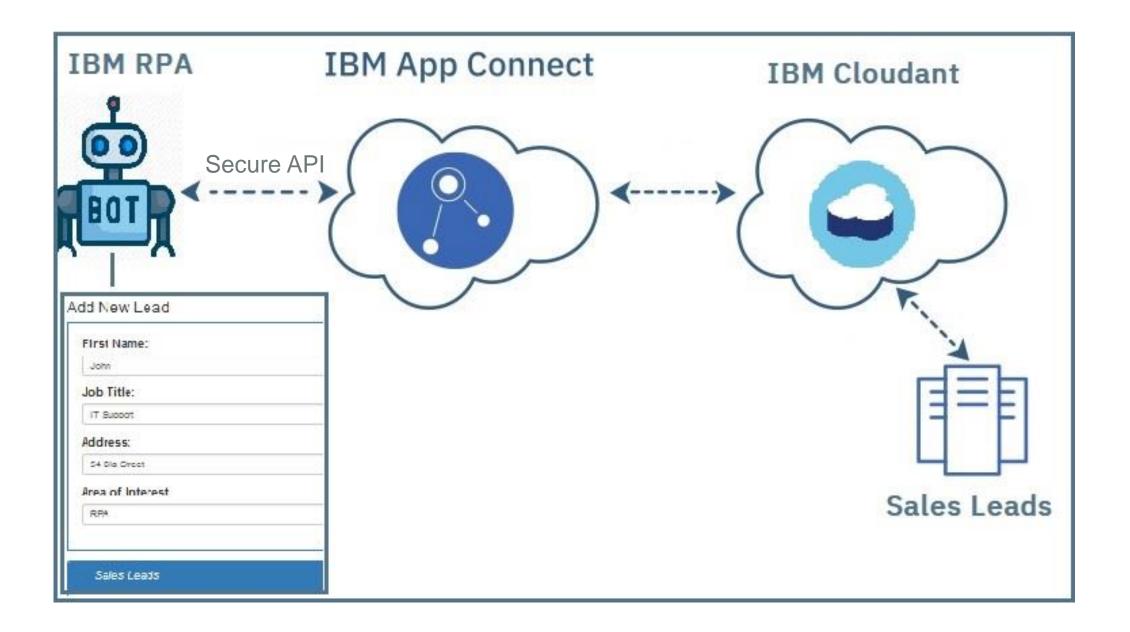
IIIIps.//youlu.be/_bLowobZiJo

IBM

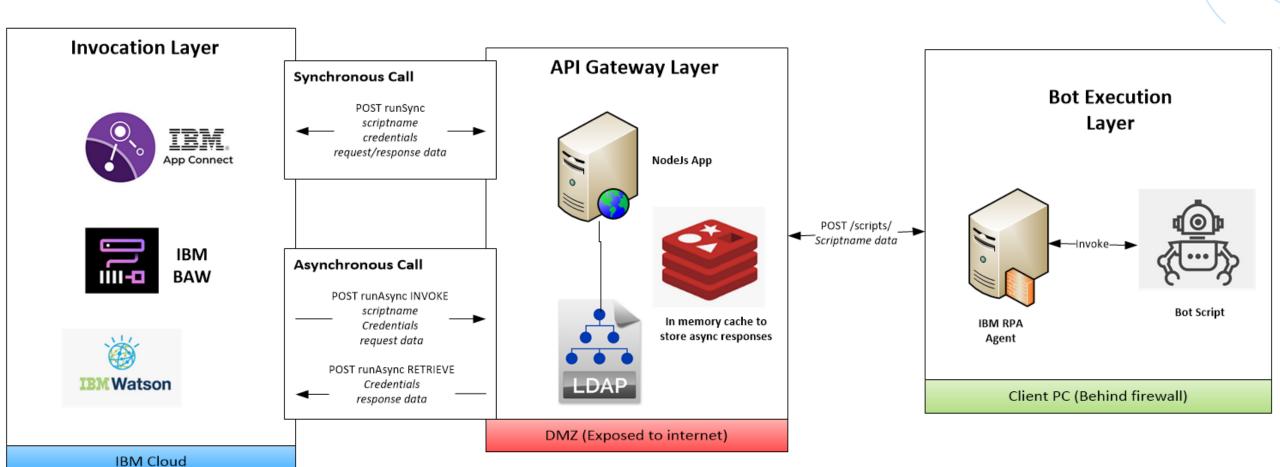
Demo

FocusCorpRefunds

Lab Solution Architecture



RPA API Architecture



 \wedge

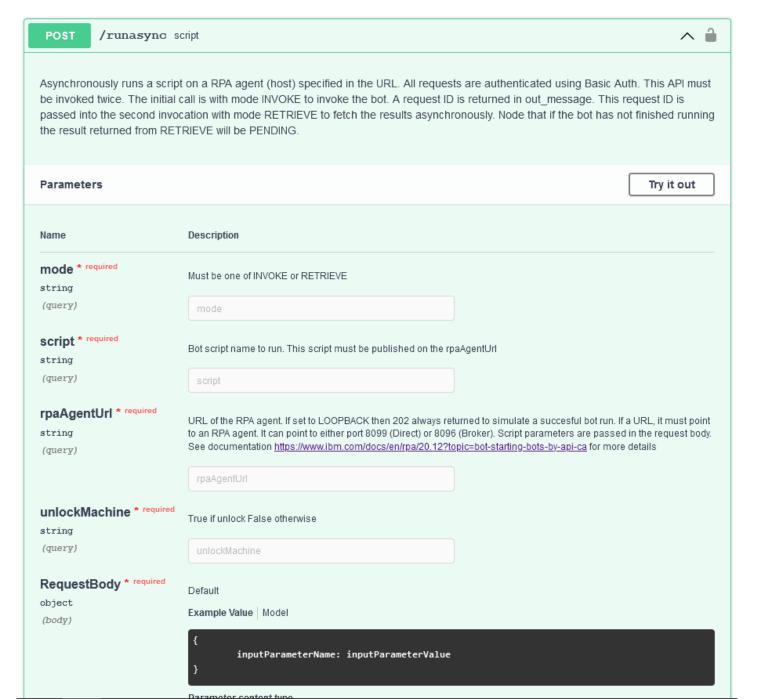
RPA Synchronous API

RPA API

/runsync script **POST** Synchronously runs a script on a RPA agent specified in the URL. All requests are authenticated using Basic Auth. **Parameters** Try it out Name Description script * required Bot script name to run. This script must be published on the tenant belonging to the host string (query) rpaAgentUrl * required URL of the RPA agent. If set to LOOPBACK then 202 always returned to simulate a succesful bot run. If a URL, it must point string to an RPA agent. It can point to either port 8099 (Direct) or 8096 (Broker). Script parameters are passed in the request body. See documentation https://www.ibm.com/docs/en/rpa/20.12?topic=bot-starting-bots-by-api-ca for more details (query) rpaAgentUrl unlockMachine * required True if unlock False otherwise string (query) RequestBody * required Default object Example Value | Model (body) inputParameterName: inputParameterValue Parameter content type application/json ~

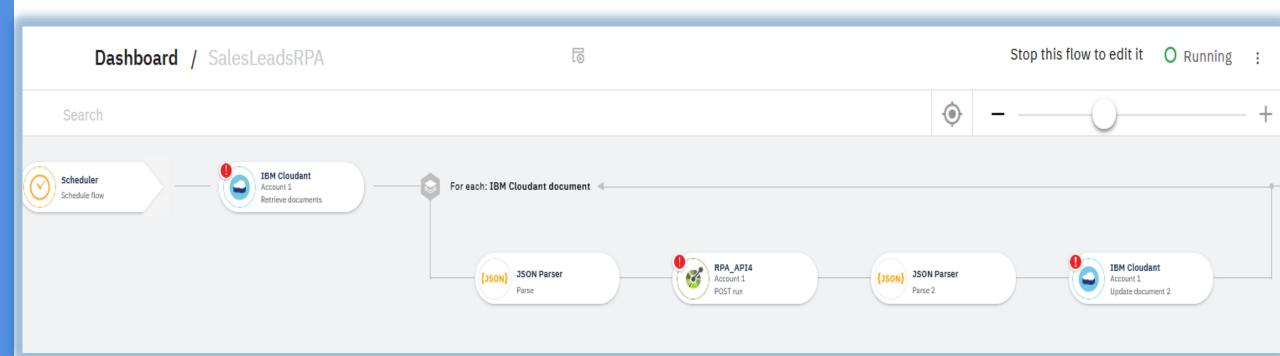
IBM

RPA Asynchronous API



Implementation of flow in App Connect





Summary

IBM.

Advantages

- Build flows to connect to API-less systems
- Use RPA for what it does best automate human actions and not complex orchestration

Disadvantages

- RPA can already do what App Connect does (but its complex)
- Management of the bot is delegated to App Connect
- Two products means two systems to manage.



End of Presentation



App Connect with RPA Lab