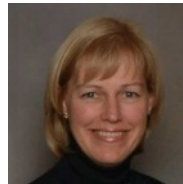


Why IBM i goes from strength to strength



Alison Butterill
IBM i Product Management
akbutter@us.ibm.com



Dan Sundt
IBM i Product Management
dansundt@us.ibm.com



IBM i Anywhere
IBM i Everywhere



IBM Power

Infrastructure built for business with hybrid cloud agility



Cloud Innovation
Agility, flexibility and automation across private and public Cloud

Application Modernization
Enterprise AI, advanced analytics, containerization, extension via microservices

Resilient, Scalable & Secure
Business Continuity through reliability and agility

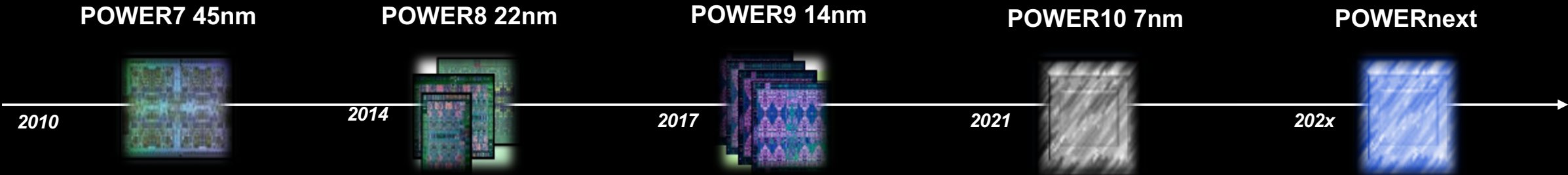
Enterprise Linux

Business critical capabilities for Linux applications such as SAP HANA, OpenShift containers and AI inferencing

AIX / IBM i

Optimize infrastructure for efficiency, agility and digital transformation through IT and application modernization

Power Processors provide superior integration, performance, and security across systems and software



Flexibility in deployment, management, and payment options



Power E980

Power Server Standalone



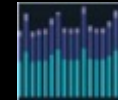
Traditional Infrastructure Deployment

Consume entire server as an application platform



Power E950

Power Private Cloud with Dynamic Capacity



Pay only for what you use

Cloud Capabilities On Prem. with Advanced Monitoring



Power S922/S924

Power Virtual Server with IBM Cloud



Extend to Cloud

Same mission Critical Infrastructure as on-prem, for Dev/Test, HA/DR, Modernization



Power S914

IBM i gets a modern look!

IBM i Anywhere
IBM i Everywhere

IBM i

IBM i



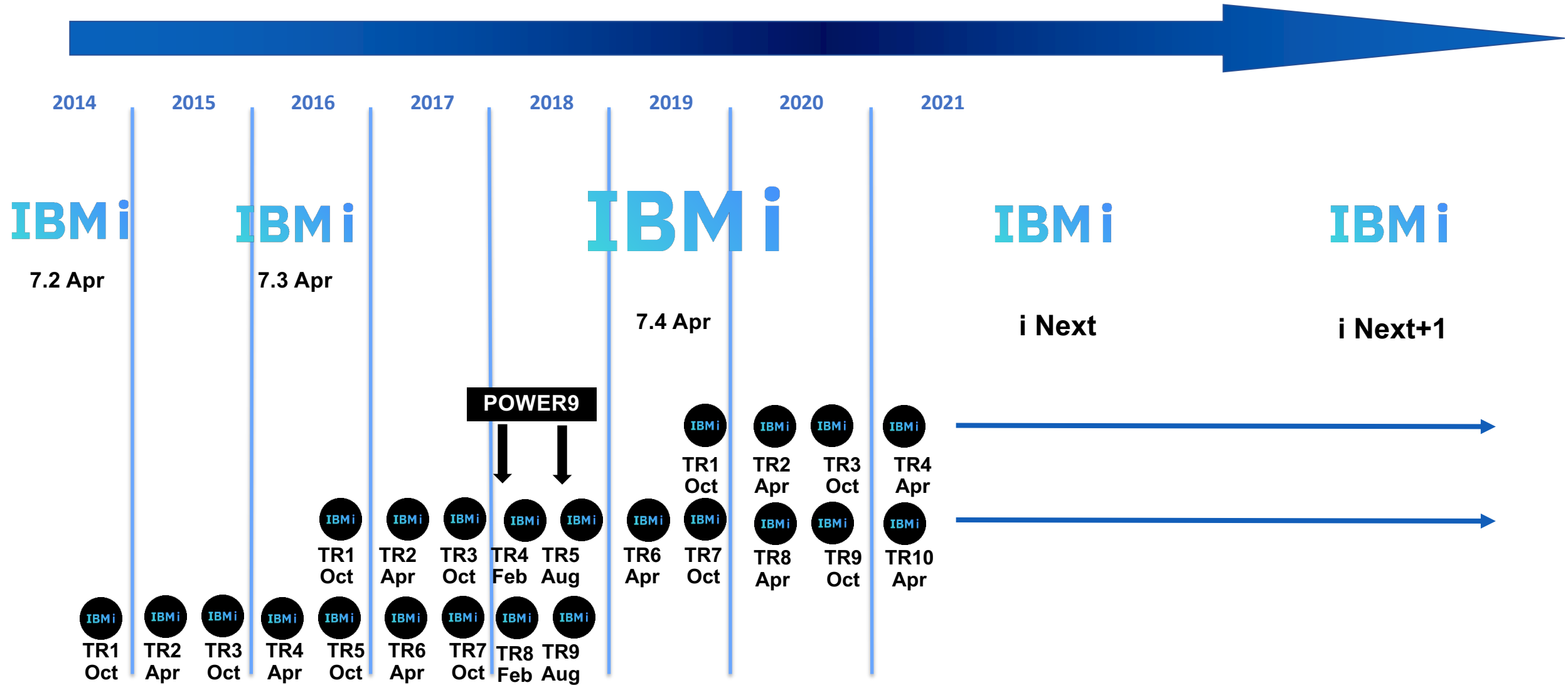
IBM i Business Today

IBM i Anywhere
IBM i Everywhere

- 117 Countries
- 60+ languages
- All sizes
- All industries
- 2020 - 2021

IBM i Release Roadmap

IBM i Anywhere
IBM i Everywhere



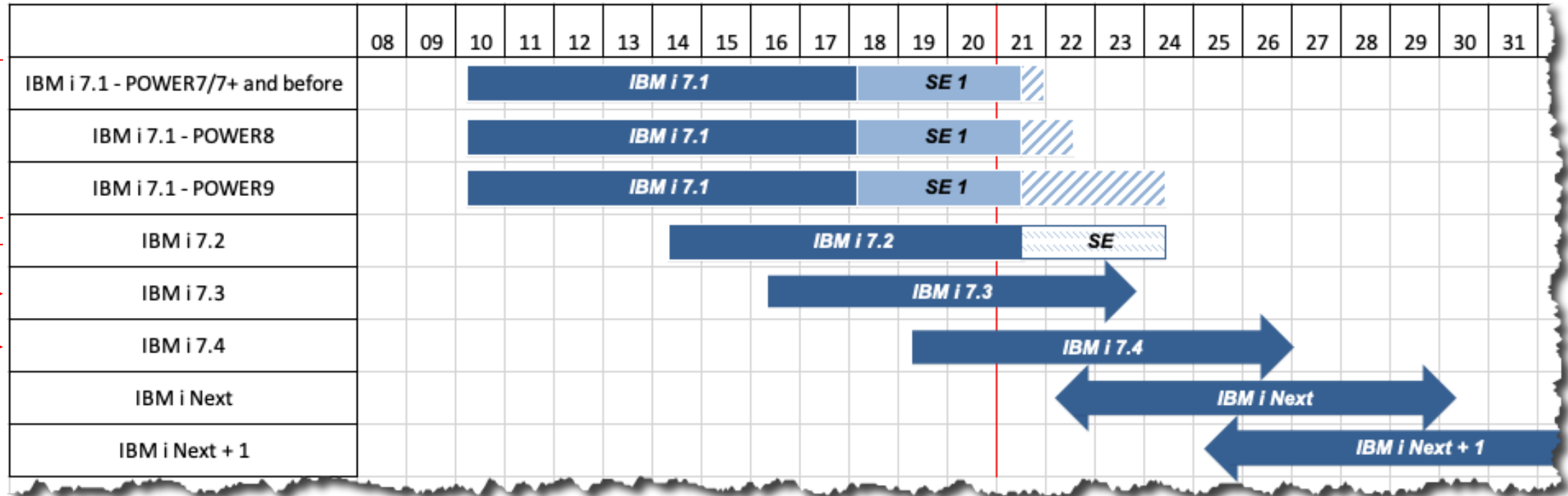
** All statements regarding IBM's future direction and intent are subject to change or withdrawal without notice and represent goals and objectives only.

** Arrows indicate "ongoing status and do not imply any specific dates."

IBM i and POWER Support Roadmap

POWER7/7+ and earlier
HW Support Withdrawal

Supported
Upgrade
paths
(n-2)



- ** All statements regarding IBM's future direction and intent are subject to change or withdrawal without notice and represent goals and objectives only.
- ** Arrows indicate "ongoing status" and do not imply any specific dates.
- ** Service extensions of older Operating System releases are dependent on specific hardware support availability

TJ Morris- United Kingdom



A

IBM i Service Extensions as of May 1, 2021

IBM i 7.2 Service Extension

- Started May 1, 2021

IBM i 7.1 *Extended* Service Extension

- Started May 1, 2021
- Usage and known-defect support only. No new defects

Power Systems Virtual Server: Service Extension is automatically included in monthly billing for IBM i 7.1 and IBM i 7.2

For details regarding IBM i support:

These links are available from [IBM i License Topics](#) > “IBM i Support Topics”

- [IBM i Support Roadmap](#)
- [Service Extension for IBM i 7.1 and IBM i 7.2](#)

IBM i Strategic Directions

Power Solutions

- Enable clients to exploit latest POWER technology
- Enable transformation of customer solutions with new value
 - Mobile, Internet of Things, Cognitive, Machine Learning and AI
- Enable Solution Developers to modernize around services & hybrid cloud

Open Platform for Choice

- Grow IBM i solutions options including open source languages & applications
- Flexible options for Cloud (inside or outside Data Center)
 - Dynamic Capacity, Power Virtual Server, etc
- Entice new talent with popular open languages and tools

The *Integrated* Promise of IBM i

- Deliver a simple, high value platform for business applications
- Provide exceptional security and resiliency for critical business data
- Leverage IBM systems, storage and software technologies



IBM i Strategy Whitepaper

IBM i Anywhere
IBM i Everywhere

Reviews industry directions

Reflects the strategy of IBM i in specific roadmaps such as

- Strategy
- Partners
- Cloud
- Cognitive Computing
- Application Modernization
- Database

[Link to Whitepaper](#)

IBM Power Systems

IBM i strategy and roadmap

An executive guide to IBM's strategy and roadmap for its integrated operating environment for Power Systems

Download the full report

→ Download the IBM i Strategy White Paper

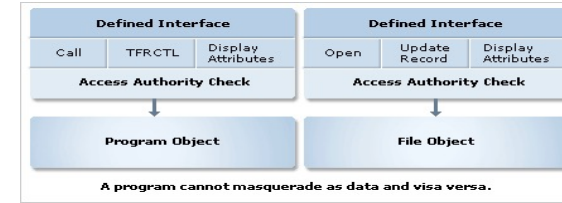
Reinventing the fu

Db2 for i & Single Level Store



Automate & optimize storage management

Object Based Architecture



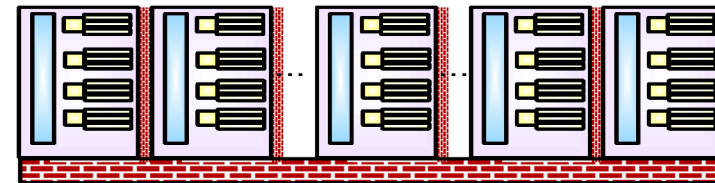
Enables integrity, security, virus-resistance

Integration



Integrates business components, e.g. Db2

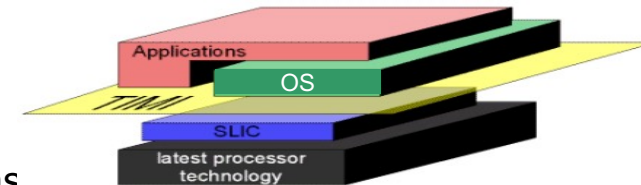
Virtualized Work Management



Provides built-in application virtualization

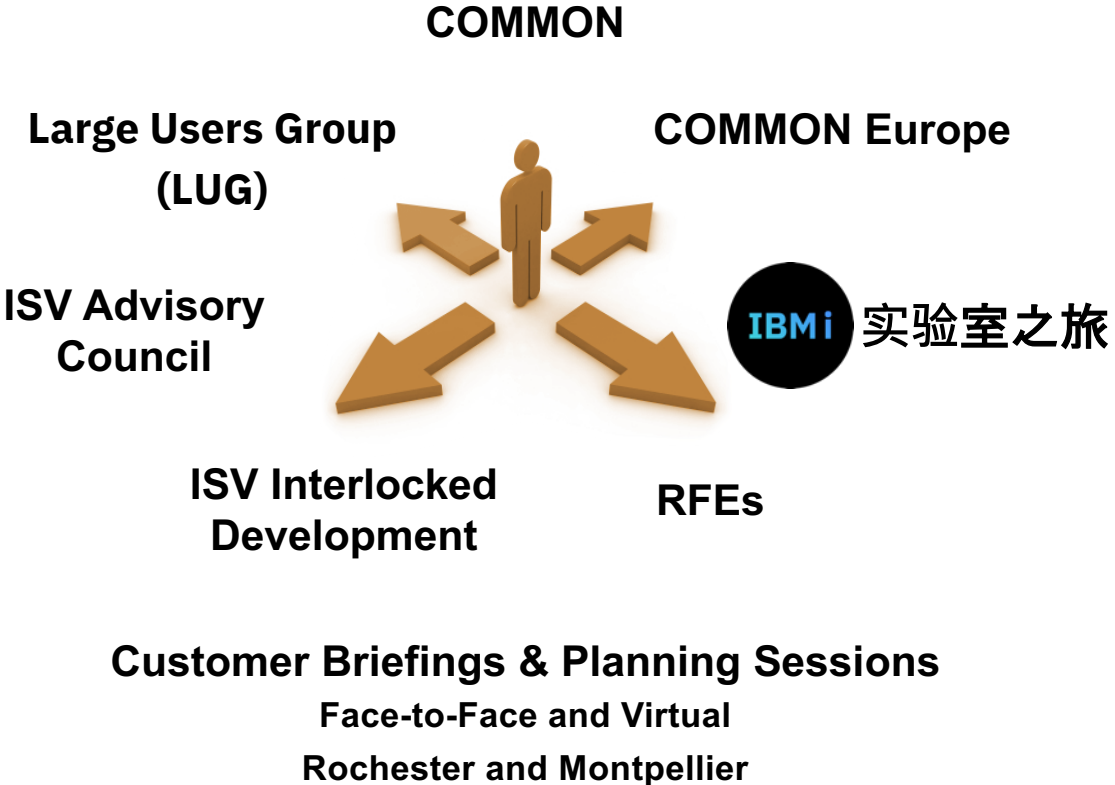
Technology Independent Machine Interface

Ensures application compatibility across multiple technology generations



Client Input is Key to IBM i – Driving Value and Satisfaction

IBM i Anywhere
IBM i Everywhere



IBM i NPS = 82
(Support NPS = 87)

IBM i clients are passionate about the platform, and one reason is their ability to help guide its future.



New Forrester TEI of IBM i Report

IBM i Anywhere
IBM i Everywhere



[Link](#)

Engagement with the IBM i Community

IBM i Anywhere
IBM i Everywhere

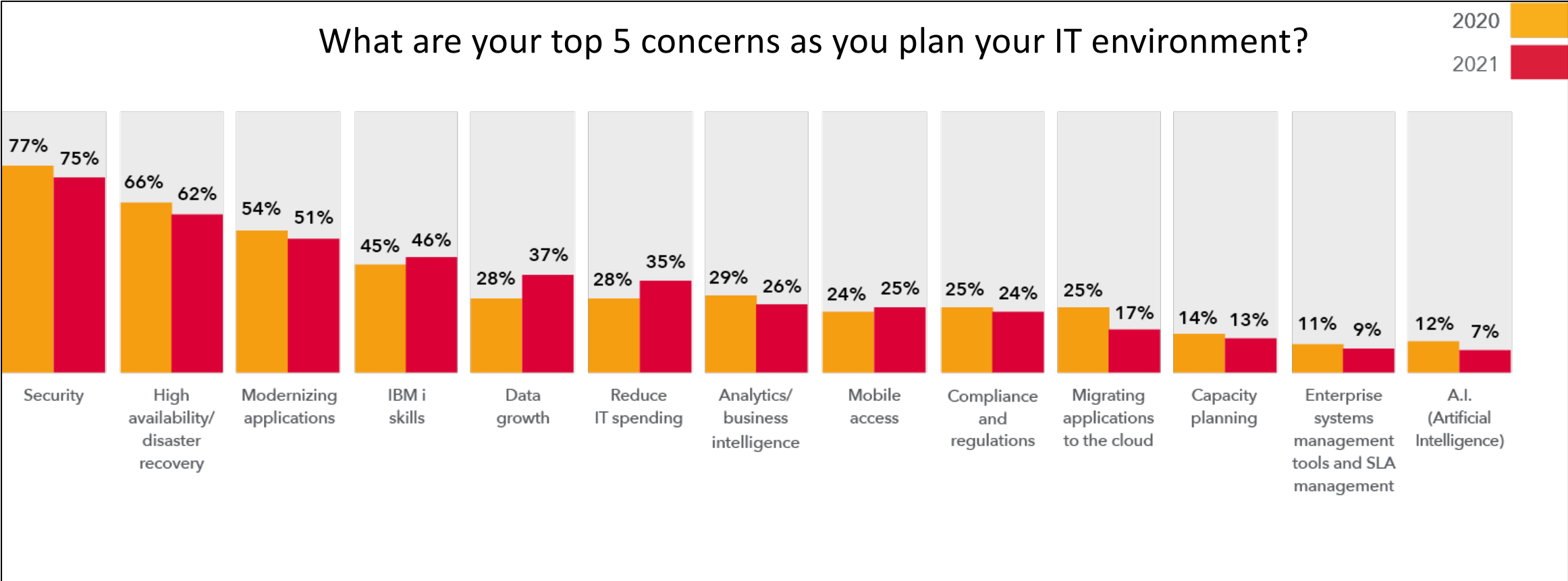
The screenshot displays the IBM Power Systems Community website. At the top, the header reads "IBM Power Systems Community" with the tagline "Connect, learn, share, and engage with the IBM Power Systems Community." Below the header is a navigation bar with a blue "Ask a question" button on the left and a search bar on the right containing the text "This Community" and "Search for your favorite topic".

The main content area is divided into sections. The first section is titled "Operating Systems" with a gear icon and the subtitle "The core of your mission-critical workloads: AIX, IBM i, and Enterprise Linux". Below this is a section for "IBM i" with a "Settings" button. A navigation bar below the "IBM i" section includes links for "Group Home", "Discussion 135", "Library 41", "Blogs 24", "Events 1", and "Members 455".

The "Latest Discussions" section features three discussion cards. The first card is titled "RE: IBM i OSS for PDF Manipulation" by Steve Bradshaw, 6 days ago, with the text "Hi Juan This is perfect ! Thanks for the advice 🙏 Regards Steve Steve Bradshaw +44 7970 976409". The second card is also titled "RE: IBM i OSS for PDF Manipulation" by Juan Manuel Alcudia Peñas, 6 days ago, with the text "Just use python: <https://realpython.com/creating-modifying-pdf/> Realpython Create and Modify PDF Files in Python - Real Python In this tutorial, you'll explore the different ways of creating and modifying ...". The third card is titled "IBM i OSS for PDF Manipulation" by Steve Bradshaw, 6 days ago, with the text "Greetings to one and all, I need the wisdom of the IBM i Community I'm looking for an IBM i Open Source Tool that I can use to manipulate a PDF. I need to convert an existing PDF from Landscape to Portrait. A little background: I received these PDFs ...".

<https://bit.ly/IBMiCommunity>

2021 Top IT Concerns



<https://www.helpsystems.com/resources/guides/ibm-i-marketplace-survey-results>

Key IBM i features



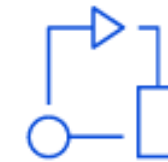
Availability

- Ensures mission-critical applications remain up and running
- Near zero downtime
- Get work done 24 hours a day, 7 days a week, 365 days a year



Security

- Enhanced security features implement latest industry standard practices
- Protect critical business applications and data
- New auditing capability at the Object level



Open Source

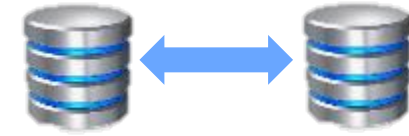
- Industry standard Open Source environments
- Port more applications to IBM i
- Easily integrate with IoT, AI and Watson

IBM i 7.4 – New in 2019

IBM i Anywhere
IBM i Everywhere

Availability

- PowerHA supports Hyperswap clustering configurations, and user profile administration is automated
- IBM Db2 Mirror for i reduces RTO to zero by providing continuous availability



Security

- Implementing latest in industry standards, allowing clients to secure critical business information
- Authority collection has added support for object based control



Support of POWER9 Hardware

- Add support for applicable hardware and I/O available in the 2Q timeframe



Cloud

- Supporting cloud initiatives from IBM Cognitive Systems – IBM i in IBM Cloud, MSPs, Private & Hybrid Cloud



Solution Enablement

- Providing new RPG and COBOL Operations, making processing of data more efficient
- Many improvements in Db2 functions, including HASH built-in and Services for DTAARAs
- New Open Source environments allowing the porting of new application solutions to IBM i



Connectivity

- Enhancements to multiple products connecting to and from IBM i applications and database



Social

- IBM Content-Manager-on-Demand 7.4 available

Lots More



IBM i – Announcement Themes – April 2021

IBM i is the integrated operating environment for IBM Power Systems™ servers. Our amazing clients are transforming their businesses by leveraging frequent updates to the Db2 for i database, improvements related to resiliency, and new tools to assist with application modernization. Stay tuned for more great things to come.

Database

Db2 for i adds the Query Supervisor which will allow clients to establish automated controls for supervising the on-going consumption of system resources

Services

IBM i Services are added and enhanced, providing useful SQL-based alternatives to IBM i commands and APIs

Modern Development

Listening to the community, IBM is delivering key new features requested by RPG developers & adding more Open Source options to extend the value proposition & appeal to new developers.

Availability

IBM Db2 Mirror for i adds security and support for additional objects. IBM PowerHA SystemMirror for i and BRMS updated with new capabilities.

IBM i Technology Updates

The screenshot shows the IBM Support website interface. At the top is a dark blue header with the text 'IBM Support' and a search bar containing the placeholder text 'Search support or find a product'. Below the header, the main content area is titled 'IBM i Technology Updates'. Under this title, there are sections for 'News', 'Abstract', and 'Content'. The 'Abstract' section contains a paragraph about PTFs. The 'Content' section features a table with three rows listing IBM i versions (7.4, 7.3, 7.2) and their corresponding enhancement landing pages. Below the table are links for 'IBM i - Technical Articles' and 'Db2 for i SQL Tutor'. A section titled 'IBM i Technology Updates - by IBM i product or subject matter' contains links for 'Access Client Solutions', 'Application Modernization', and 'Backup Recovery and Media Services (BRMS)'.

	Enhancement Landing Pages
IBM i 7.4	TR4 - TR3 - TR2 - TR1 - Base Enhancements
IBM i 7.3	TR10 - TR9 - TR8 - TR7 - TR6 - TR5 - TR4 - TR3 - TR2 - TR1 - Base Enhancements
IBM i 7.2	TR9 - TR8 - TR7 - TR6 - TR5 - TR4 - TR3 - TR2 - TR1 - Base Enhancements

<https://www.ibm.com/support/pages/ibm-i-technology-updates>

IBM Db2 for i

- Focus on performance and function
- IBM i Services
- Db2 for i Query Supervisor
 - Monitors real-time consumption of resources
 - If threshold is exceeded...

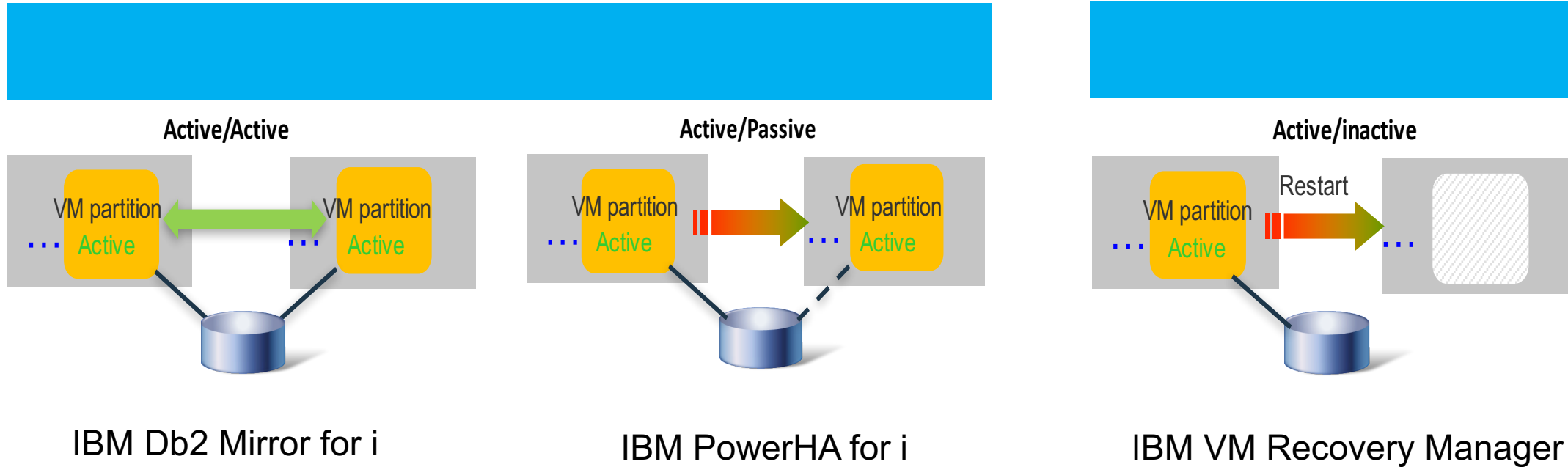


IBM Db2 for i

- Focus on performance and function
- IBM i Services
- Db2 for i Query Supervisor
 - Monitors real-time consumption of resources
 - If threshold is exceeded...
 1. Query processing is interrupted
 2. User supplied exit program is called
 - Log
 - Alert
 - Terminate
 - Slack
 - Gather
 - ...

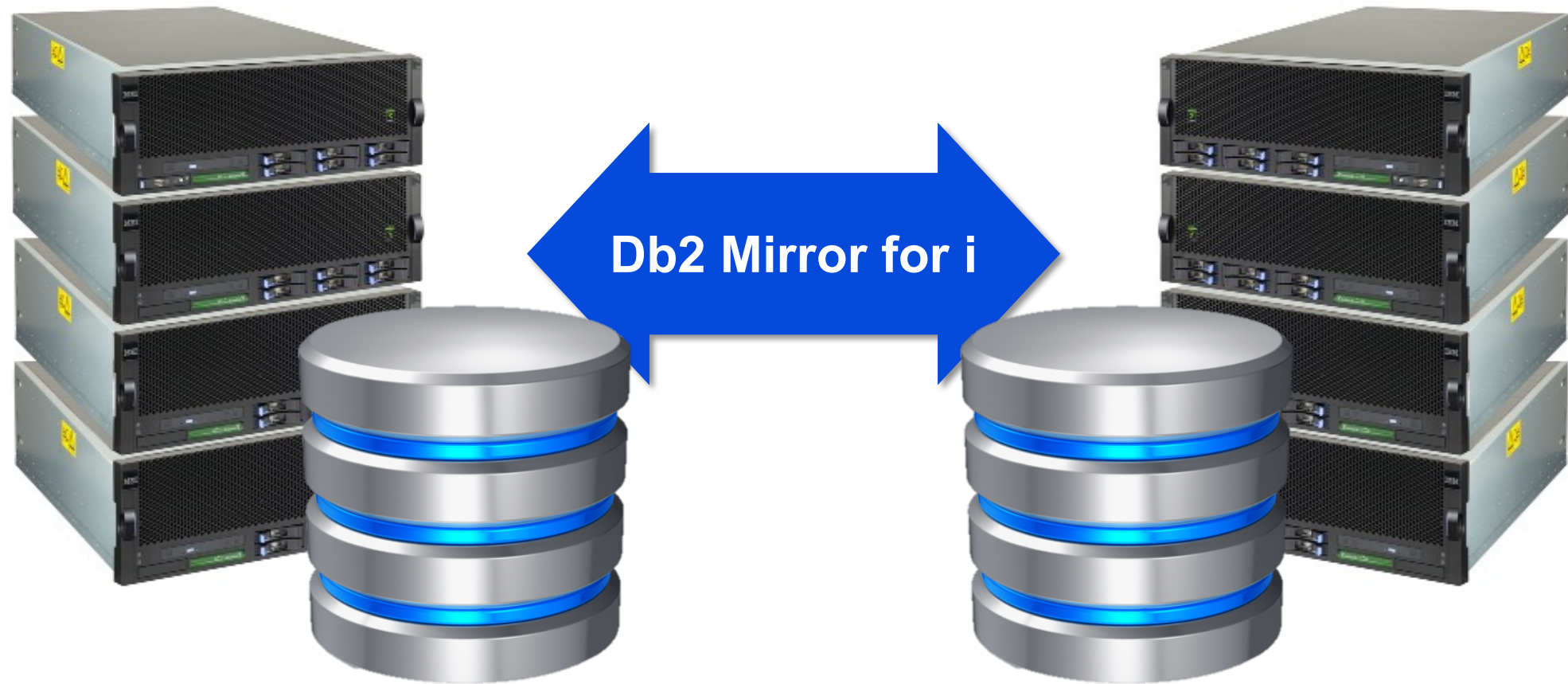


Availability to Accommodate All Requirements



- **Recovery Time Objective (RTO)**
 - How long can the application not be working?
- **Recovery Point Objective (RPO)**
 - How much time is acceptable between the last “good data” & the next “good data”?

IBM i Db2 Mirror



Kansas City Turnpike Authority- USA

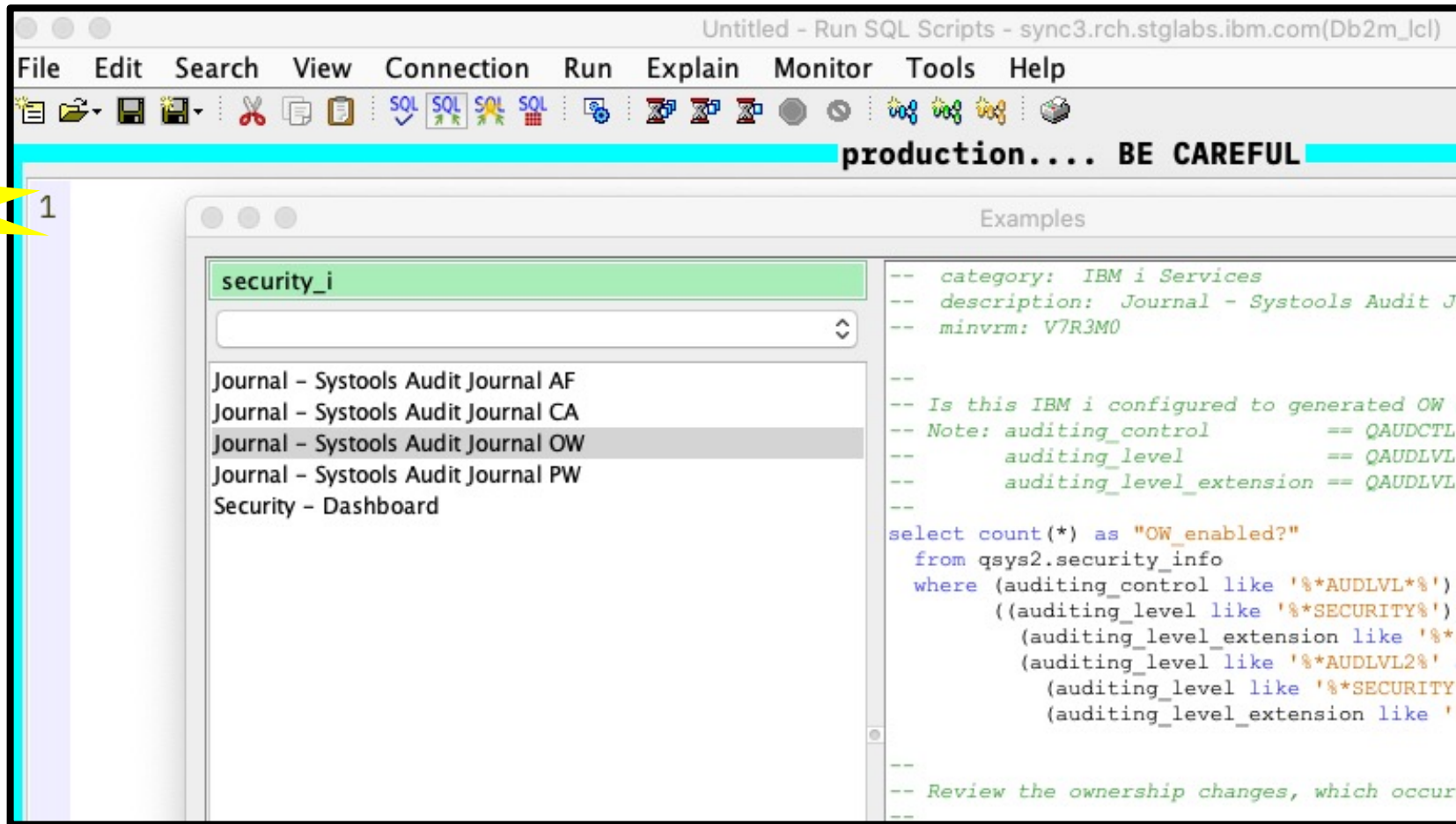


PowerHA

Access Client Solutions (ACS) – IBM i Strategic Interface

IBM i Anywhere
IBM i Everywhere

New
Version
1.1.8.7
Now
Available



<https://www.ibm.com/support/pages/node/633843>

Db2 Web Query for i – Business Intelligence for IBM i

IBM i Anywhere
IBM i Everywhere

Fast, easy access to business information assets for query, reporting and analysis

InfoAssist
WebFOCUS - Version 7.7.01

Getting Started

- Build a Report
- Build a Chart
- Build a Document
- Open Existing Item
- Change Default Options

SALES KPI

5-day weather forecast for Rochester, MN

Date	Day of Week	High Temp	Low Temp	Forecast
03/14/11	Monday	37	27	Mostly Sunny
03/15/11	Tuesday	42	29	Chance Rain
03/16/11	Wednesday	52	39	Slight Chance Rain
03/17/11	Thursday	60	33	Chance Rain
03/18/11	Friday	48	25	Mostly Sunny

Profit Margin

Product Type Revenue

Store Revenue YTY

Store Name	Cur Yr Revenue	Prior Yr Revenue	YTY Rev
CHART	175,860,343.00	176,420,557.00	7%
Audio Support	130,546,898.00	123,516,530.00	7%
TV City	93,235,538.00	86,493,213.00	16%
TV City	75,475,926.00	65,456,727.00	16%
City Video	63,437,243.00	67,226,644.00	(7%)
City Video	36,135,103.00	31,944,443.00	16%
City Video	14,173,679.00	16,801,457.00	(17%)

Top 5 Sales Reps

RANK	SALESREPNAME	Revenue
1	John	1004,520,442
2	John	892,376,999
3	John	820,496,114
4	John	800,738,223
5	John	680,404,343

Authoring Tool
"Intuitive"

Reports & Graphs
"Flexible delivery"

New
Version
2.3.0
12/2020

Quantity	Revenue	Profit	Margin
1,897	\$3,017,313	\$364,213	18.70%
757	\$1,967,443	\$226,343	11.50%
566	\$1,817,495	\$150,995	8.31%
1,822	\$6,686,733	\$499,528	7.48%
890	\$3,173,310	\$413,310	13.02%
108	\$904,202	\$176,802	19.70%
133	\$345,647	\$39,767	11.60%
72	\$216,128	\$21,528	9.91%
346	\$3,309,160	\$251,160	7.48%
109	\$201,991	\$49,291	24.40%
1,118	\$1,819,662	\$340,262	18.70%
653	\$1,478,830	\$170,131	11.50%
223	\$802,677	\$66,677	8.31%
76	\$1,976,240	\$227,240	11.50%
114	\$24,921	\$23,621	94.81%
369	\$1,836,041	\$266,741	14.52%
114	\$1,444,098	\$188,098	13.02%
14,380	\$23,313,420	\$4,399,420	18.87%
4,467	\$11,600,773	\$1,321,673	11.39%
3,465	\$10,896,433	\$1,065,936	9.78%
16,761	\$63,124,216	\$4,719,716	7.48%

OLAP
"Extensible"

Enhancements to Db2 Web Query for i

- Two new versions – Scheduler Edition and RunTime User Edition
- Uses IBM i Services for fast retrieval of data
- Ongoing enhancements to the Easy Install

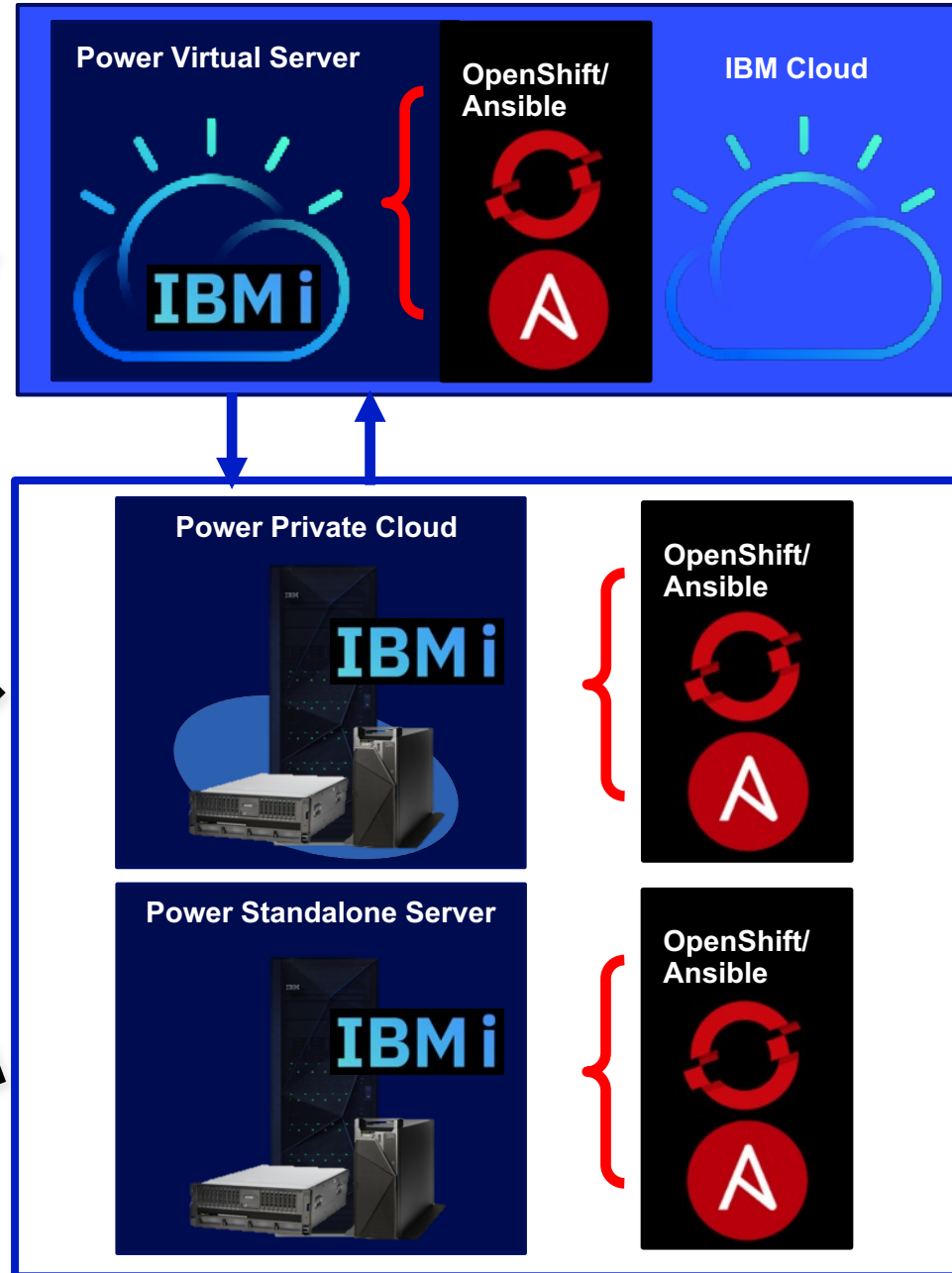
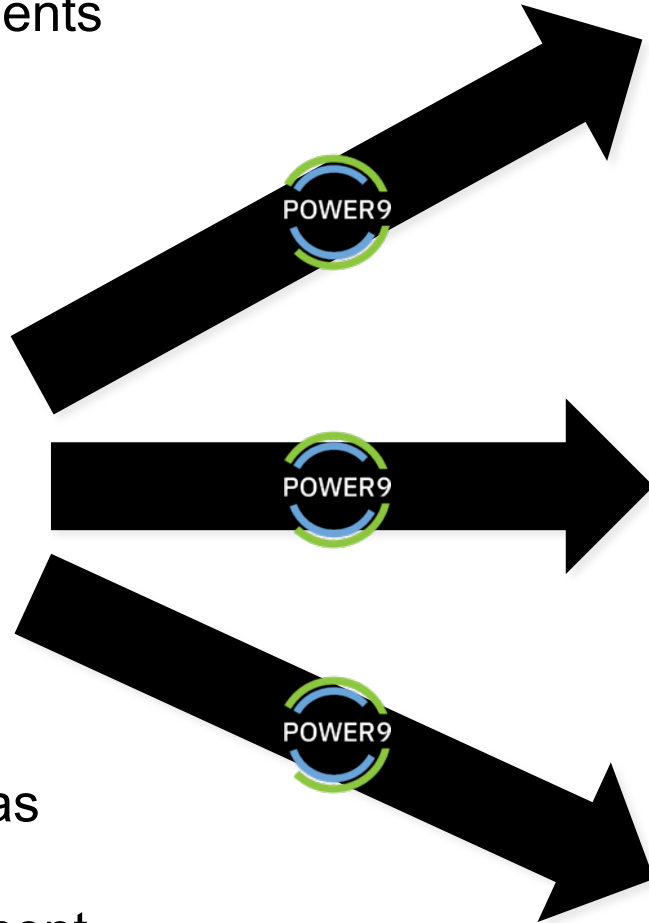
Hybrid Cloud Options for an IBM i Customer

IBM i Anywhere
IBM i Everywhere

Hybrid clouds are public and private environments combined



An IBM i customer has choices on how to deploy their environment



Soletrader- United Kingdom

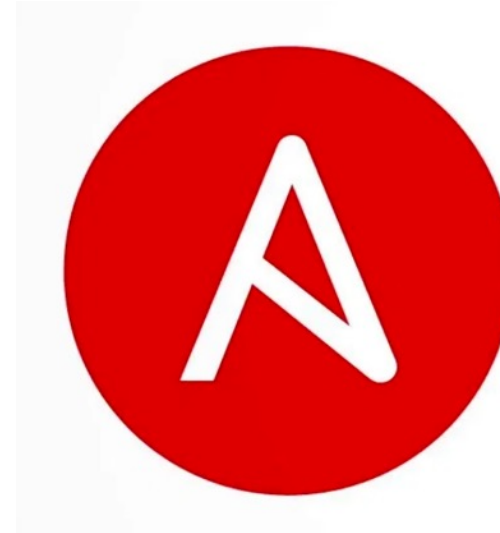


ID Logistics – France



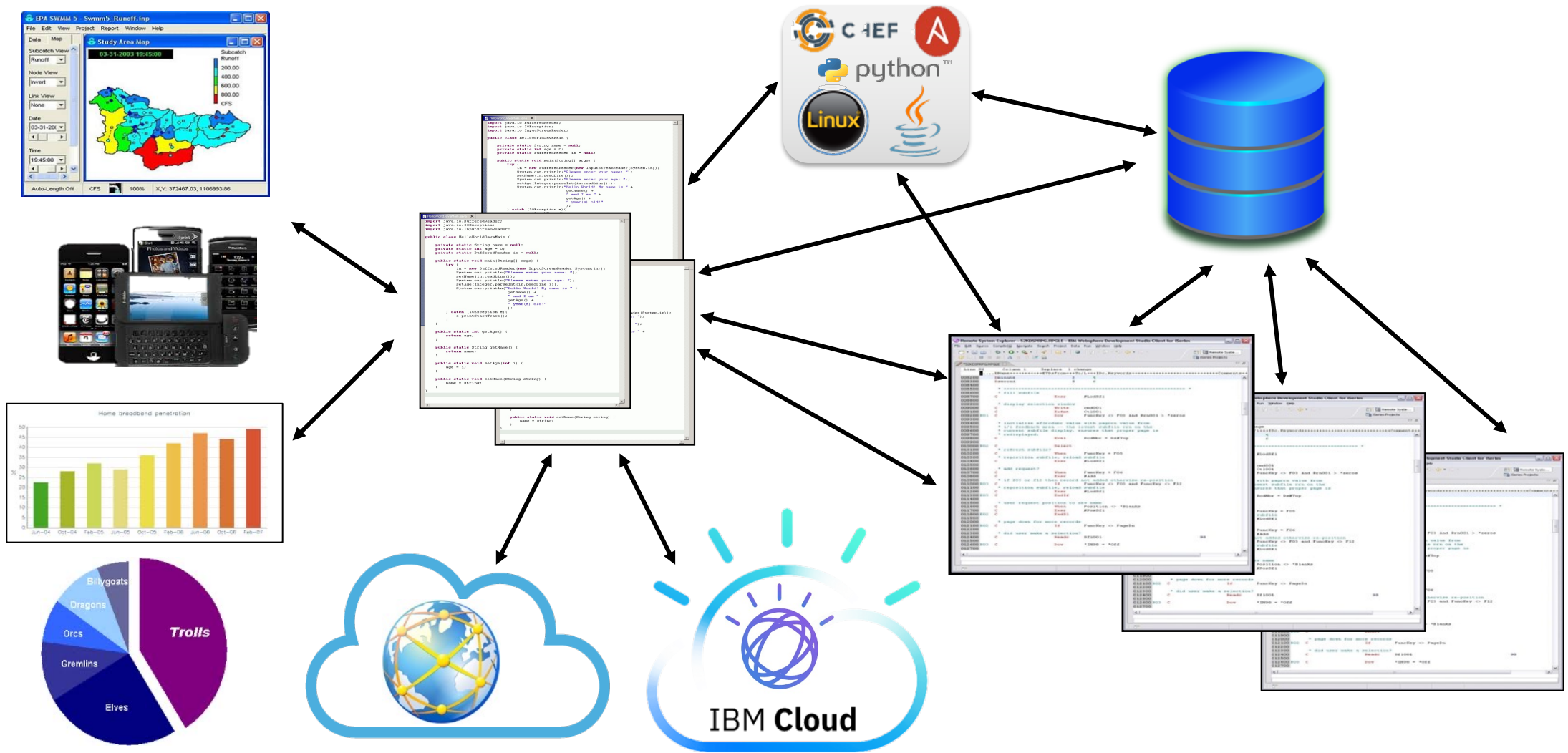
Ansible for IBM i

- Administrators can perform common IBM i tasks across multiple endpoints without needing to log in to individual instances directly, through a collection of Ansible modules.
- Administrators accomplish these common tasks without deep IBM i skills.
- Achieve complex automation workflow and tasks.
- All modules are openly available.
- Existing Ansible team in client organizations can be leveraged for IBM i.



Modern Application Structure

IBM i Anywhere
IBM i Everywhere



IBM i Strategy – Choices & Open

IBM i Anywhere
IBM i Everywhere

Goal: Code what needs to be coded
Integrate what needs to be integrated

Traditional Languages & Environments



IBM WebSphere®
Liberty

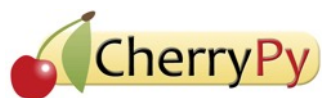
Open Source Language Runtimes



Tools



Open Frameworks



FormaServe Systems- United Kingdom



HM Revenue
& Customs

Existing modernization technology & steps

IBM i Anywhere
IBM i Everywhere

```

SYNR002  09/27/14  09:26:58
NONICKL  QP4DEV107  SERVICE ADDRESS INQUIRY
Option: AD10  Qualifier: 00000 ABBEY STREET
Service Address key  0045675  Street code  100  Status  A
House Number  2  Street Name  ABBEY STREET  Apt #
Service Address  2  ABBEY STREET
City, State, Zip  SAN FRANCISCO  CA  94114
Postal Carrier  00000  Old System #
Description
Units  1  Franchise Code  SFO  County Code  SFO
Map Area  MIS  Map Sub Area  000  Assessor Parcel #  3966 029
Pickup Restrictions (hbaa)
Garbage...  Earliest Arrival 0000  Latest Arrival 0000
Recycling... Earliest Arrival 0000  Latest Arrival 0000
Organics... Earliest Arrival 0000  Latest Arrival 0000
Defaults
Account Type #  Bill Cycle #  Fran Schedule  SFO  Day 4  (MTWTFSS)  ---T---
Route 094  Block 10  Stop 30
1=End/return  2=Search Scrn  9/27=Tickets
    
```



Refactor – Extract Critical Business Logic with existing tool

1 **RPG pgm**
Main;
Open Display File
Open Database
Read data

Call Proc
(Compute Ticket Price)

Show Screen
Listen for Action
Buy Ticket
End PGM;

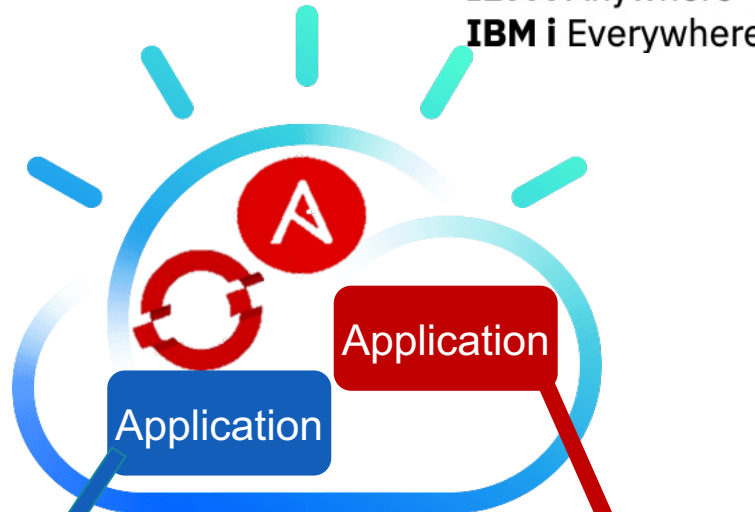
2

Proc;
Compute Ticket Price
- calculate
- factor class
- factor # tickets
- factor in Tax
End Proc

3

Make it into a cloud-ready Rest service with existing IWS

Rest API Engine

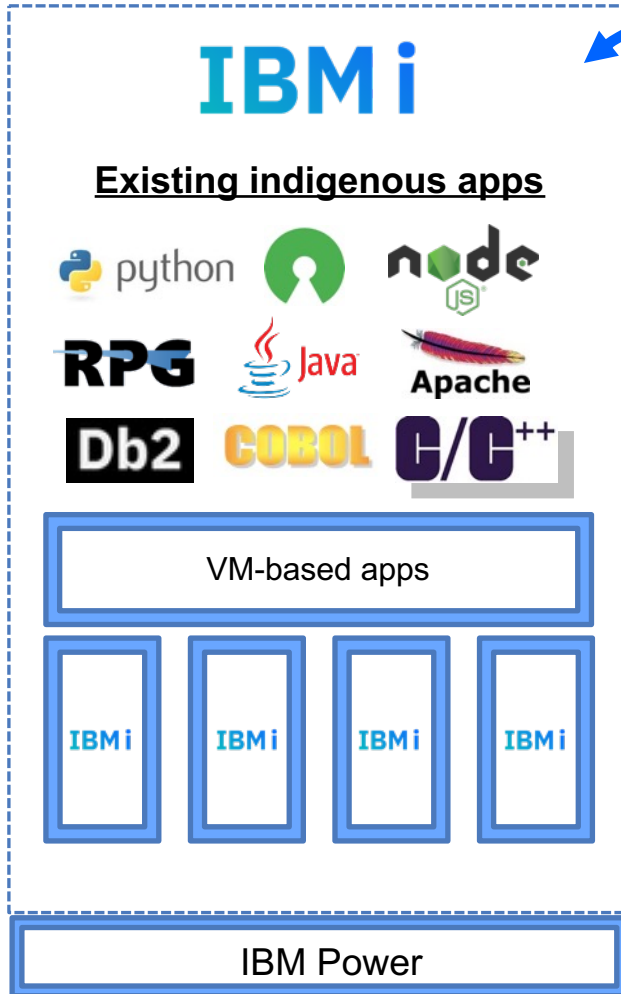


Cloud Applications Access Key Business Logic and Data via Rest

4

IBM i and Cloud – Modernizing to extend value, using Cloud & DevOps

IBM i Anywhere
IBM i Everywhere



The “Cloud” options on IBM Power allow container-based applications and native IBM i applications to provide value to one another.

- In the same data center, treated as a cloud
- Outside the data center, in a public or partner cloud
- In all places – a Hybrid cloud

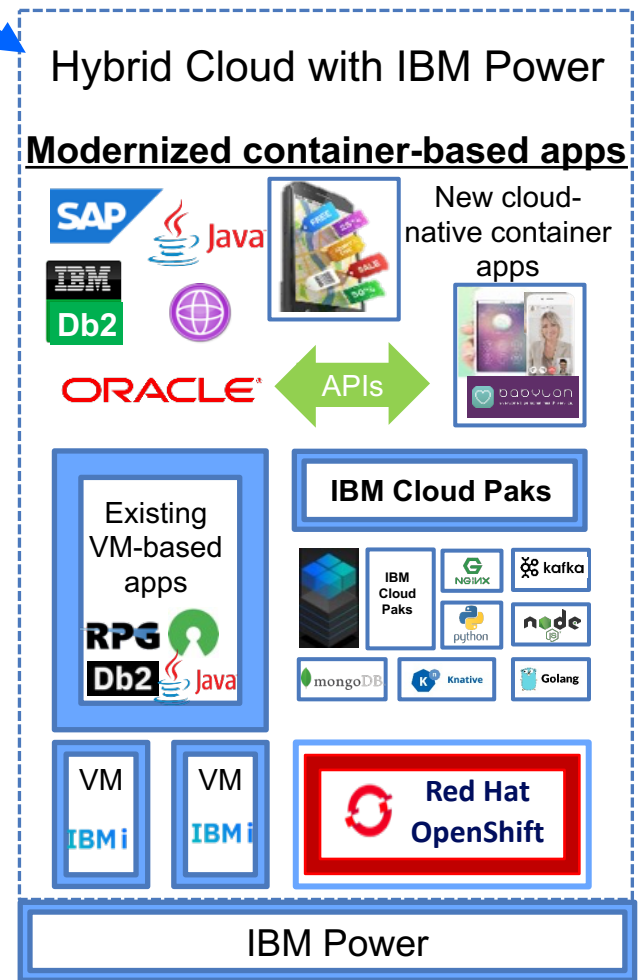
IBM i Next Gen Applications

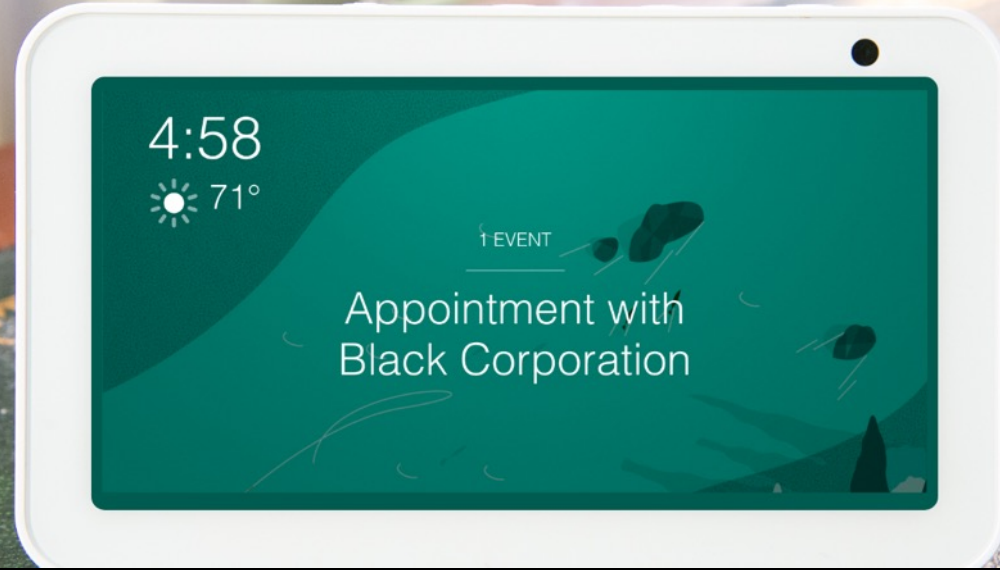
- **DevOps & CI/CD enabled**
- Modular
- Robust/Highly Available
- Cloud-enabled

Clients have better results with modernization than re-platforming.



<https://idcdocserv.com/US46775720>






Client Innovation

[Link](#)



For More Information:

Links You Need	Twitter	#Hashtags
<p>IBM i Home Page: https://www.ibm.com/it-infrastructure/power/os/ibm-i</p> <p>IBM Strategy Whitepaper: https://www.ibm.com/it-infrastructure/us-en/resources/power/i-strategy-roadmap/</p> <p>IBM Client Success: https://www.ibm.com/it-infrastructure/us-en/resources/power/ibm-i-customer-stories/</p> <p>Support Life Cycle: https://www.ibm.com/support/lifecycle/</p> <p>License Topics: https://www-01.ibm.com/support/docview.wss?uid=nas8N1022087</p> <p>HelpSystems 2021 Marketplace Survey https://www.helpsystems.com/resources/guides/ibm-i-marketplace-survey-results</p>	 @IBMSystems @COMMONug @IBMChampions @IBMSystemsISVs @IBMiMag @ITJungleNews @SAPonIBMi @SiDforIBMi	<p>#PowerSystems</p> <p>#IBMi</p> <p>#IBMAIX</p> <p>#POWER9</p> <p>#LinuxonPower</p> <p>#OpenPOWER</p> <p>#HANAonPower</p> <p>#ITInfrastructure</p> <p>#OpenSource</p> <p>#HybridCloud</p> <p>#BigData</p>

Thank you

IBM i Anywhere
IBM i Everywhere

