

IBM i Strategy & Features Overview

Steve Will - IBM i Chief Architect







IBM i Strategy



Power Solutions

- Delivering an integrated platform focused on leading industry applications
- Engaging with partner ISVs & MSPs for flexible solutions delivery options
- Enabling clients to transform their customer experience via mobile solutions

Open Platform for Choice

- IBM demonstrating commitment with continuing deliverables IBM i 7.3 & TRs
- Providing new capabilities between releases based on user feedback
- Growing IBM i solutions options including open source languages and applications

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























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Agenda

- "Strategy" Introduction
- "Session within a Session" What Kind of Game are You Playing?

- The IBM i Strategy with Example "Features"
- Summary & Cheerleading

Strategy =

Guiding Principles +

Actions

Designed to achieve a long-term

GOAL.



Identify the Goals



Examine All Options



Know your Resources





Recognize All Players



What Kind of Game are You Playing?



Many Kinds of Games



Video



Casino



Sport

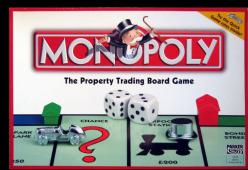


Table Top

Most Tabletop Games – You Against Opponents

Remove the Opposition







First to a Goal







Highest Score









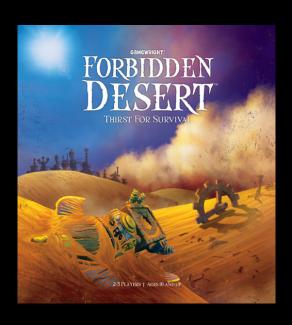
There's Another Kind of Game

It's Us

There's Another Kind of Game

It's Us

Against the GAME







Cooperative

Generally speaking, in a cooperative game

We ALL Win

or

We ALL Lose!

Competing:

Competing:

- Necessary if the Game is competitive,

Game Type → Goals → Strategy → Actions

Competing:

- Necessary if the Game is competitive,
- Harmful if the Game is cooperative.

Focusing on individual gain

Game Type → Goals → Strategy → Actions

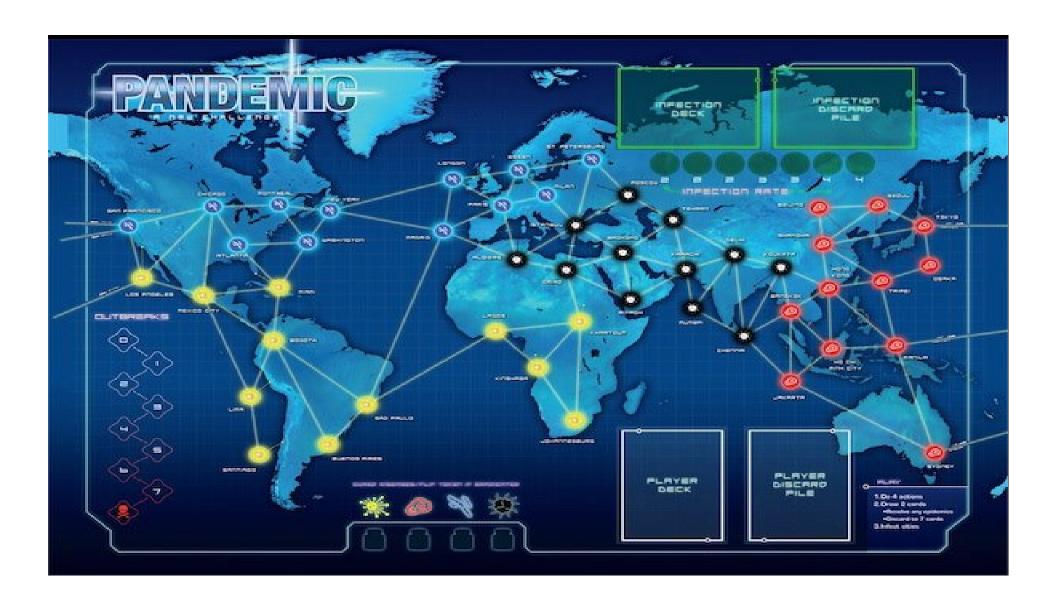
Focusing on individual gain

- Necessary if the game is competitive,

Game Type → Goals → Strategy → Actions

Focusing on individual gain

- Necessary if the game is competitive,
- Harmful if the game is cooperative



Specialists with Special Abilities



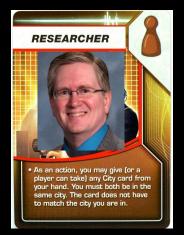


In the Game of

Building



Strategy







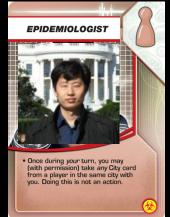
















With apologies to The Bard:

All the world's a game, and all the men and women merely players:

With apologies to The Bard:

All the world's a game, and all the men and women merely players:

You choose whether to compete, or cooperate.

With apologies to The Bard:

All the world's a game, and all the men and women merely players:

You choose whether to compete, or cooperate.

A successful strategy requires knowing what kind of game you're playing.

And I am not just talking about games.

In the Game of



In the Game of



It's Us

Against the WORLD



The Players

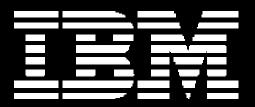


The Players





The Players







The Players















The Special Abilities of the IBM i Team include



Defining Strategy

Strategic Planning

Communicating the Results





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IBM i Strategy – Solutions plus Partners











IBM i Strategy - Choices & Open









































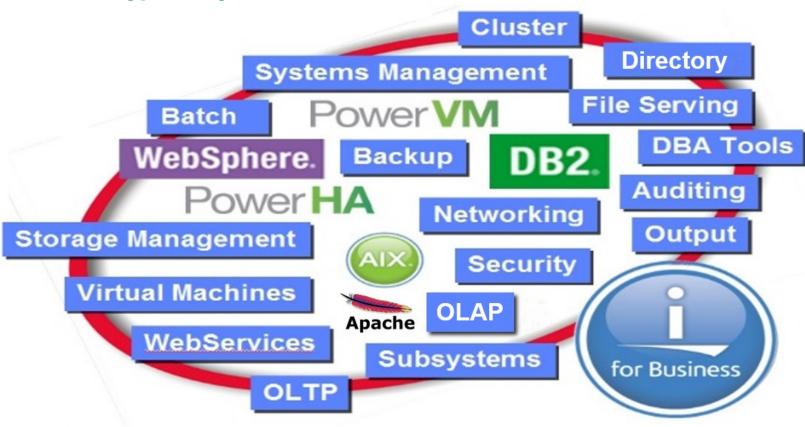








IBM i Strategy - Integration







IBM i Strategy



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IBM i Release Roadmap

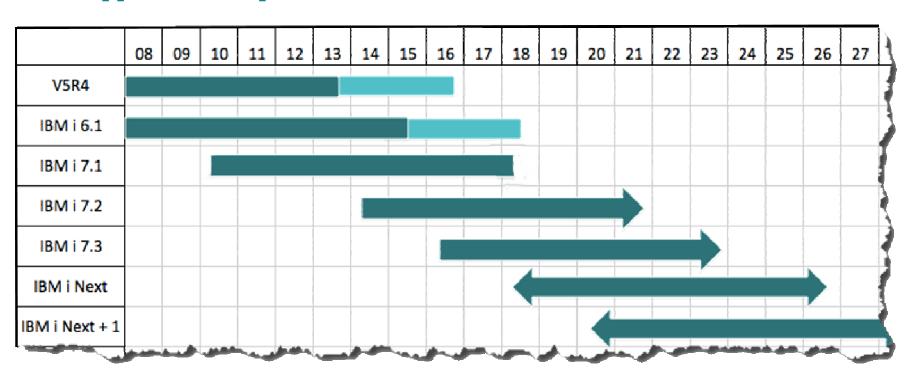


- Two or Three Major Releases supported.
- Two Future Major Releases under development.
- Semi-annual new function for the most recent releases.





IBM i Support Roadmap



^{**} Arrows indicate general timeframes, not specific dates.

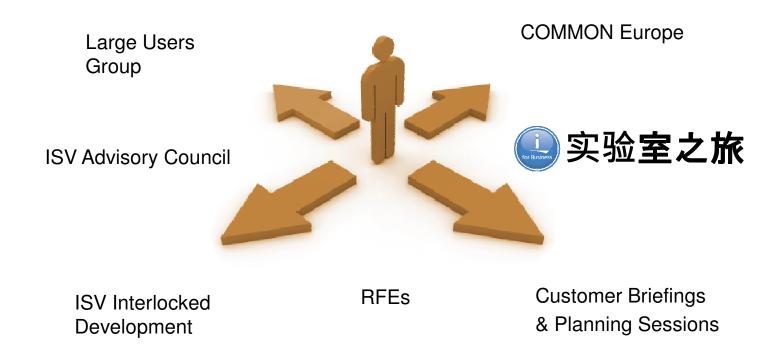
^{**} All statements regarding IBM's future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only.





The Players – Participating in the IBM i Strategy

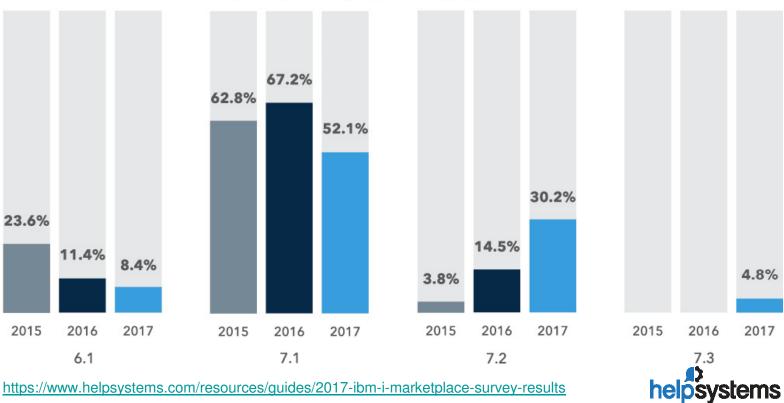
COMMON (CAAC)







The Community – Customers & Partners – Using Their Special Abilities What version of IBM i is your primary operating system level?



https://www.helpsystems.com/resources/guides/2017-ibm-i-marketplace-survey-results

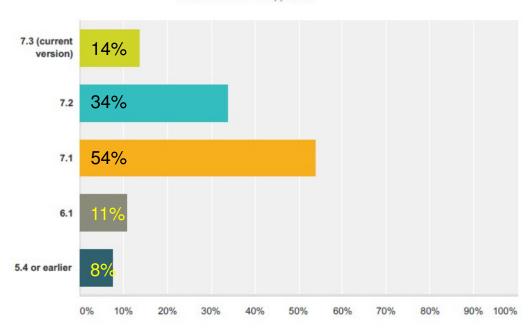




2017 State of IBM i Modernization Survey

Q3 What version of IBM i are you using?



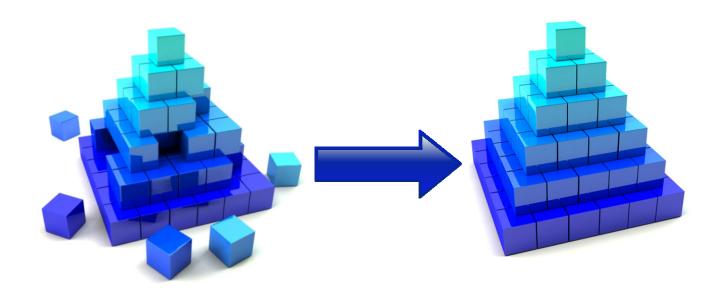


Source: Profound Logic Survey





Supporting Strategies







Some Supporting Strategies

- Application Development
 - Modernization
 - Languages
 - Open Source
- Db2 for i
- Cloud & Virtualization
- Access & Management



#ibmioss











IBM i Application Development Strategy

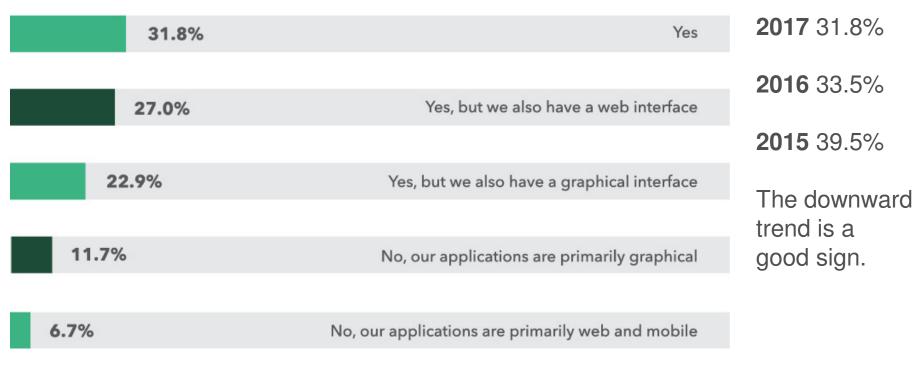
- Modernization
 - User Interface
 - Languages
 - Methodologies
 - Tools
 - Data Access
 - Security





IEM

Is your main application still green screen (5250)?



https://www.helpsystems.com/resources/guides/2017-ibm-i-marketplace-survey-results





Strategic Advancements in Mobile Access for IBM i

- RPG Open Access
- XML Services
- JTOpen Lite
- PHP Zend Server for IBM i, Zend Studio
- JSON Support

+

- · Access for Mobile
- Db2 WebQuery
- IBM Connections
- IBM Notes Traveler
- And more ...









Mobile Strategy in Action – through Partners

























IBM i Application Languages Strategy

• RPG is the most commonly used language on IBM i so



- Enable RPG as a powerful, modern procedural language
- Partner for tools which transform older RPG to modern RPG
- Work with partners & schools to teach RPG to non-RPG developers quickly





RPG Strategic Advances

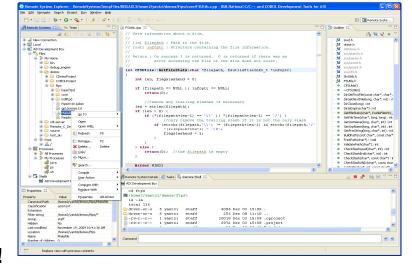
- Open Access
 - Removes dependence on 5250
- No Column restrictions
- 'Normal' syntax
- Easy readability
- Modular & Re-usable
- Leverage Other Languages
 - XML
 - SQL
 - JSON





Rational Developer for i V9.5

- Addition of a built-in 5250 emulator
- Removal of the 80 column restriction in RPG code editor
- Addition of Snippet Support in the Push-to-Client feature
- Enhanced ability to rearrange Remote System Explorer (RSE) Filters
- Improvements to free-form RPG formatting (indentation support) in the RPG code editor
- Improved RPG Content Assist



Eclipse-based, just like students use!





Proof Points



Hear how Modern RPG and Tools allowed a 23 year old developer to be successful today!

http://bit.ly/1WhM7uT





IBM i Application Languages Strategy

RPG is the most commonly used language on IBM i so



- Enable RPG as a powerful, modern procedural language
- Partner for tools which transform older RPG to modern RPG
- Work with partners & schools to teach RPG to non-RPG developers quickly
- Extensive skills and catalogs of solutions exist for business in other languages
 - Support key industry languages and programming models on IBM i
 - Ensure those new approaches can integrate with existing IBM i solutions
 - Enable tools for development, debug, lifecycle from IBM and from partners









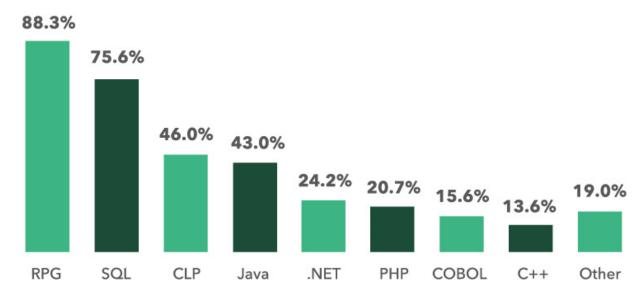








What development languages do you use today for new development? Check all that apply.



RPG is still popular, but it's fair to say that we have a good mix of others.

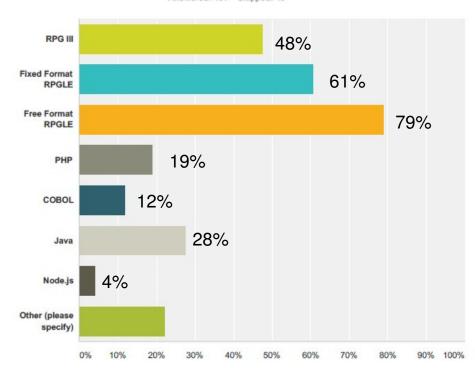
https://www.helpsystems.com/resources/guides/2017-ibm-i-marketplace-survey-results





Q4 Which programming languages are you currently using in your development? (select all that apply)

Answered: 461 Skipped: 40



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Source: Profound Logic Survey





Open Source on i

- Languages
- Tools
- Ecosystem
- Build
- Ease of Use



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IBM i Open Source































Git – Source Control Management

Git

- Support RPG source stored in IFS
- Provides an alternative to other source control
- Would allow the same source control for both open source and RPG



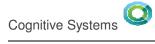




Orion - Web Based IDE

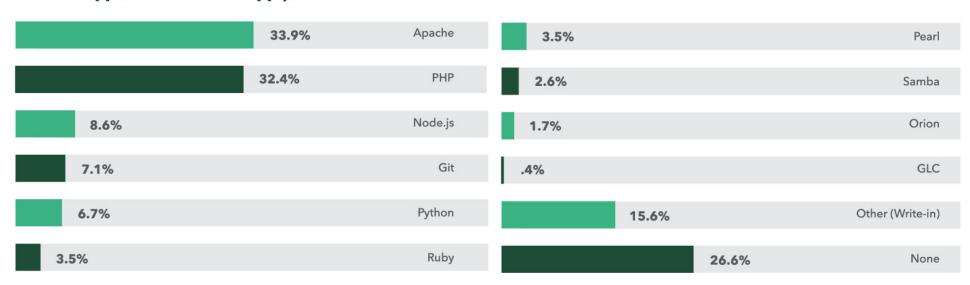
- Orion
 - Open Source Development Environment
 - Based on Eclipse
 - Browser based development environment
 - Free
 - Always there
 - Node, Python, others
 - RPG? YES!
 - Access RPG source from IFS Files







What open source development tools are you using for IBM i apps? Check all that apply.







Db2 for i – Strategic Value Pillars

- Standard compliant
- Secure
- Scalable
- Functionally Advanced
- Excellent Performance
- Easier to use
- · Easier to maintain













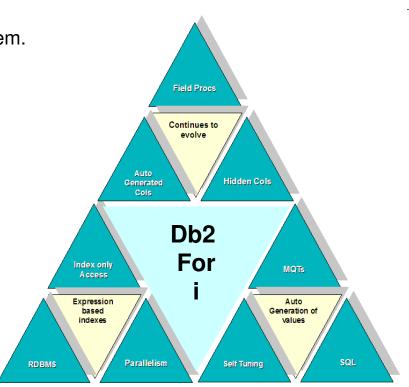




Db2 Strategic Focus: Data Centric Programming and Scalability

• Goal: Drive work into the DB management system.

- Define business rules as part of the database
 - Rules will apply to all application interfaces
- Take advantage of SQL only capabilities
- Database evolves to:
 - Meet new requirements
 - Take advantage of new technology







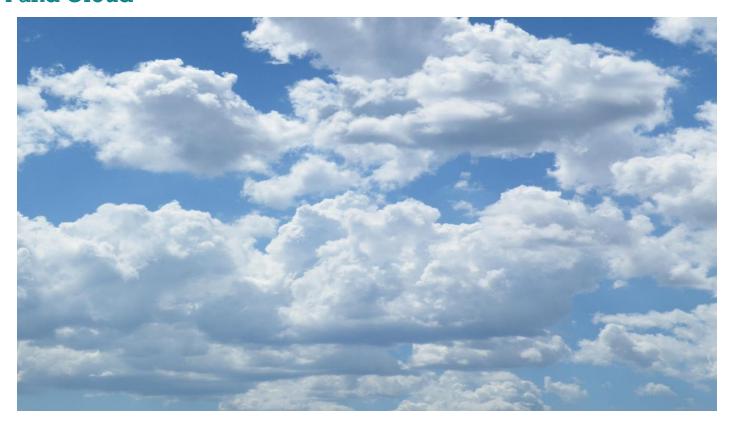
Db2 Recent Strategic Enhancements

- Db2 XML & JSON Support
- Adaptive Query Processing
- Db2 Row & Column Access Control
- Authority Collection
- Integrated Analytics Functions
- EVI Only Access
- SQL Services





IBM i and Cloud



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Strategic Cloud & Virtualization Advances

- Virtualization functions since 7.1
 - Network Install through Live Partition Mobility
- Backup to a Cloud with BRMS
 - Softlayer repository announced 4Q '16
- IBM & Industry infrastructure
 - PowerVM & PowerVC
- Cloud & Managed Service Providers
 - New IBM Services offering

- + Virtualization of networks and storage
 - for "as a Service" and HA







IBM provides a complete CMS for IBM i solution that includes these components.

Phase 1:

Set up to run in IBM i cloud

Move from client environment to IBM i cloud

(Transition and transformation services)

Phase 2:

Daily operations

- IBM i cloud infrastructure (CPWs, disk and tape storage gigabytes, software stacks)
- Operations and management (IBM support, help desk, account management, security, disaster recovery / high availability support services and more)
- ISV software (client owned or IBM provided, licensed to run in a multi-tenant IBM i environment)
- Network services (client to IBM i cloud, infrastructure and managing network)

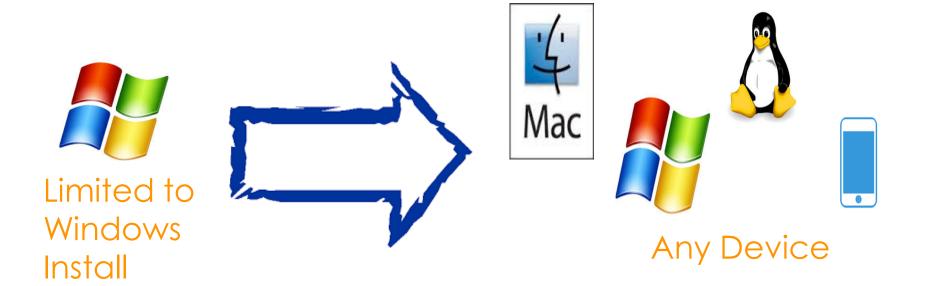
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IBM i Access and Management



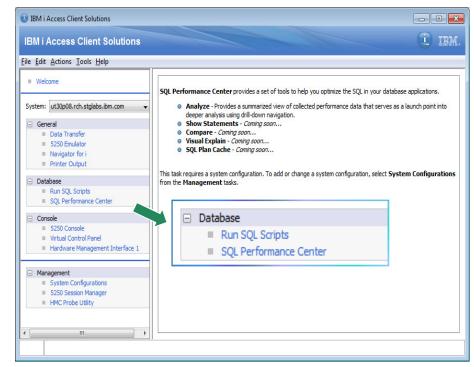




Access Client Solution

- Run SQL Scripts
- SQL Performance Center
- Direct Connect to Navigator
- Improved 5250 Emulator
- Full Windows 10 Support
 - Plus Mac & Linux





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IBM i Priorities

Solutions for Today and the Future

- Focus on solutions integration with new technology
- Invest in Db2 and language features for strategic solutions
- Enable Mobile Device Support

Systems On-Site or In the Cloud

- Exploit future POWER system technology
- Deliver advanced virtualization of system & storage
- Provide resiliency, availability & flexibility

Simple & Integrated, Secure & Available

- Simplify management of systems and high availability
- Broaden storage area network integration
- Extend industry-leading integrated security













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Open Platform for Choice

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SHIBA opening windows to a wider world







The Integrated Promise of IBM i

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IBM i Strategy - Implied

Communicate

- Continually create honest material describing the strong value & future of IBM i.
- Share the material widely with those who need to hear it.
- Work with others in the community to spread the material.

Invest

- Technology for existing core workloads Db2, Languages, POWER, Performance, integrated i
- Emerging technology which will be "table stakes" in 5 to 10 years open source, cloud, cognitive
- High-value requirements from customers with advice from advisory councils

Partner

- With ISVs who will apply new technology to solutions
- With Business Partners who will engage and serve clients reliably
- With Customer Advocates who will help guide the future of IBM i

The Players















Customer Advocates who will help guide the future of IBM i



Executives Reinvesting in IBM i

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Summary

- The IBM i strategy is built based on cooperation and partner relationships.
- This approach allows the entire community, including IBM i itself, to remain strong.
- All the "players" in the IBM i community can use their "Special Abilities."
- We, the members of the IBM i team, sincerely thank you for your business.
 - That's one of your special abilities!
 - But it's only ONE of them!
 - We thank you for ALL of them you use on behalf of the future of IBM i!

You and



are in this together!





thankyou



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