IBM i & Power
Recent Announcements

for COMMON Luxembourg
May 21, 2024

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IBM

IBM i May 7 TR Announcement

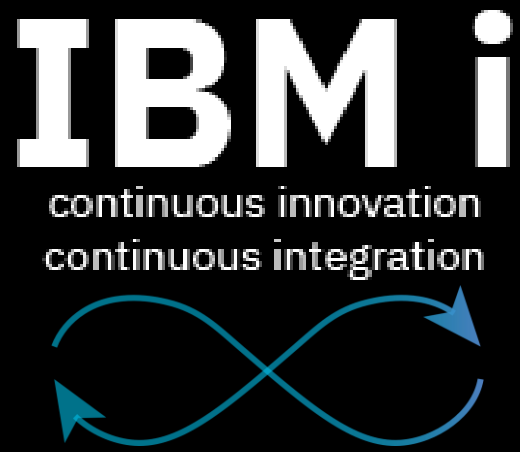
https://techchannel.com/you-and-i-blog/ibm-i-7-5-tr4-7-4-tr10/

https://www.ibm.com/support/pages/ibm-i-75-tr4-enhancements

https://www.ibm.com/support/pages/ibm-i-74-tr10-enhancements

https://www.ibm.com/products/power-s1012

https://www.ibm.com/downloads/cas/K34GVY1B



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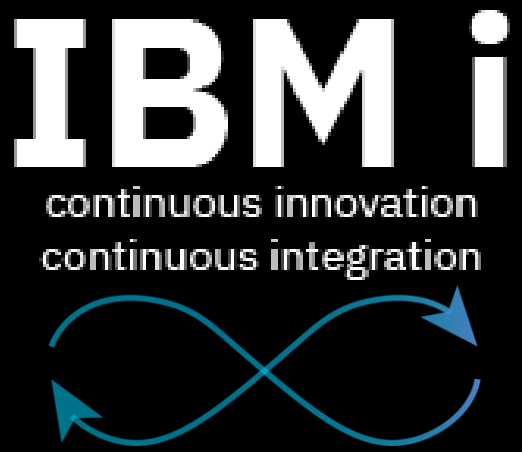
IBM i Lifecycle
and
What is Announcing



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IBM i Support Roadmap

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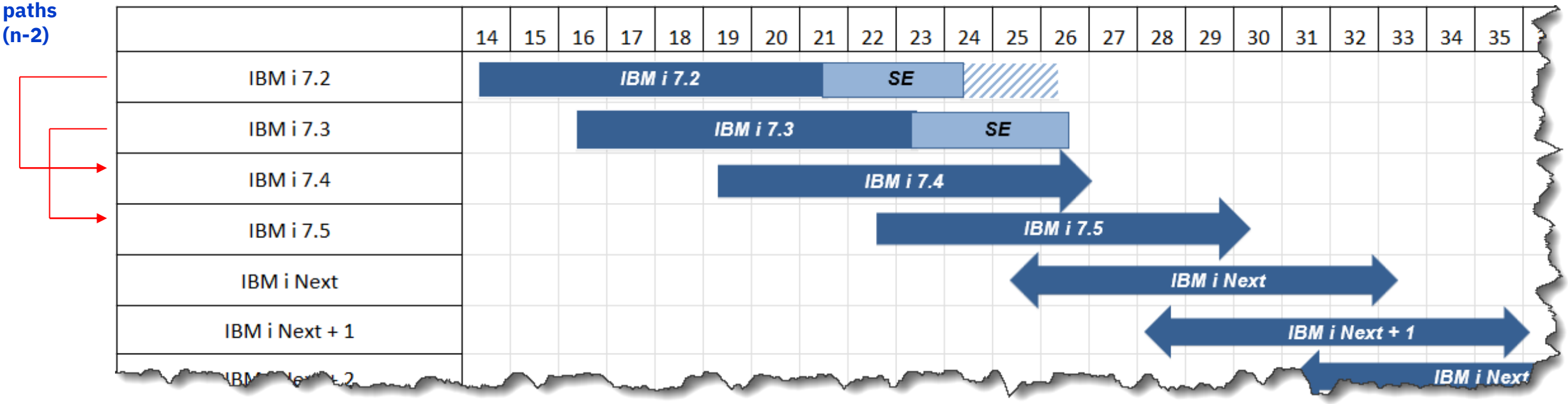
Supported Upgrade paths (n-2)



IBM i 7.1/ 7.2 Service Extensions end 4/30/2024

** 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.

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IBM i Roadmap & Strategy Foundation

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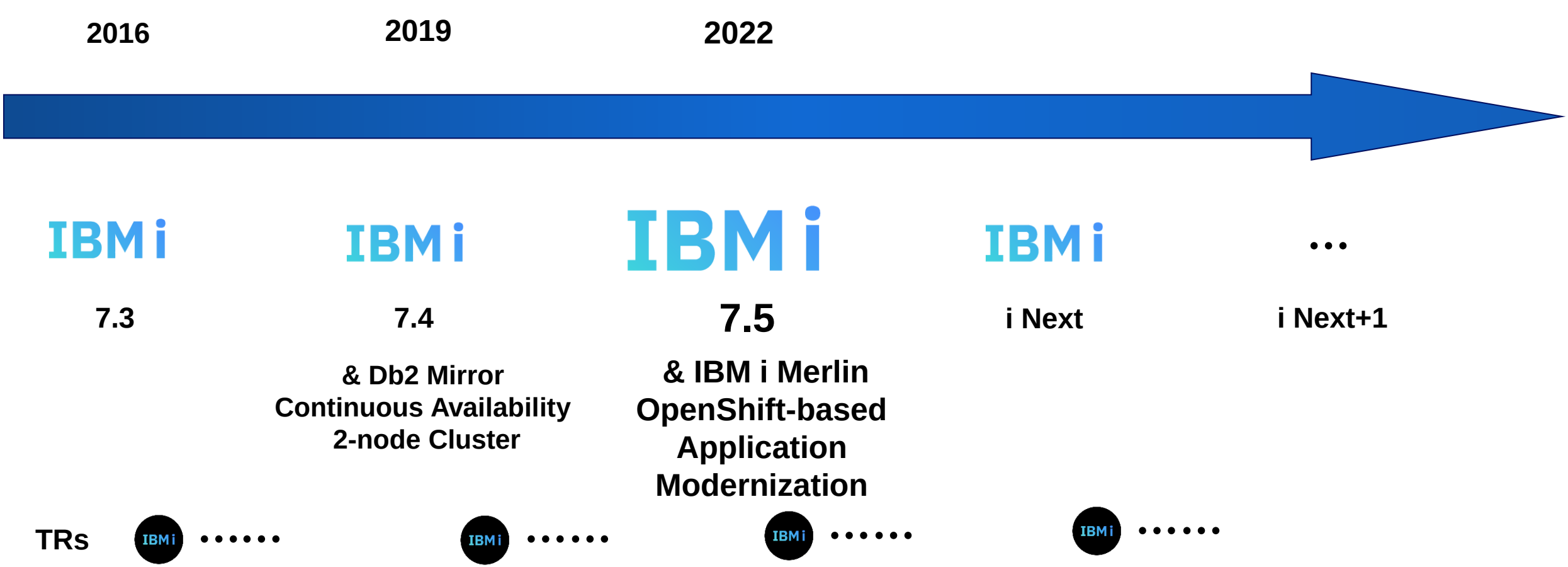

Power Solutions	Options	Integration

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IBM i Release Roadmap – Announcement Dates

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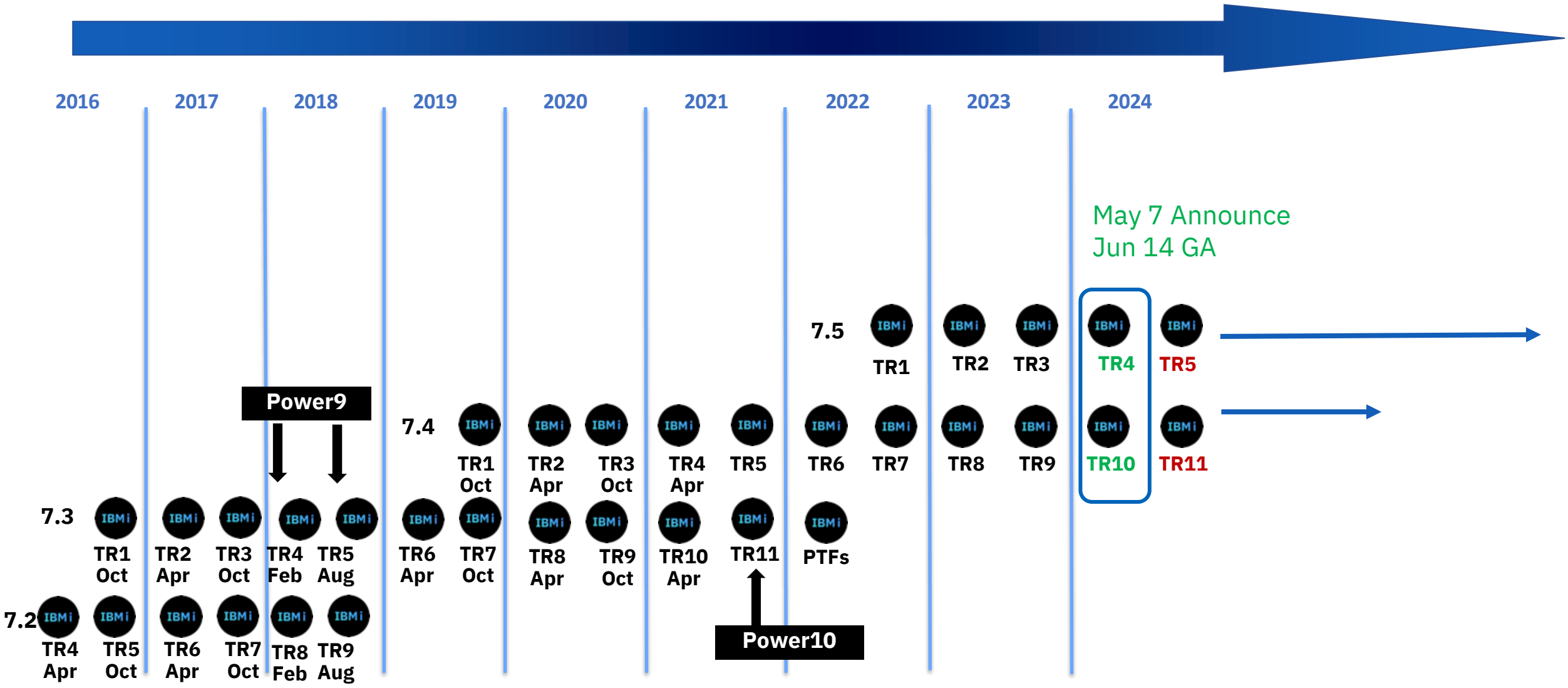

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IBM i 7.5 TR4, IBM i 7.4 TR10 – Announce 05/07/2024

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IBM i Operating System
- Security
  - The IBM i CCA CSP updated to support CHIM release 3.3.8
- Cluster administrative domain
  - Support for adopted authority

Db2 for i
- Db2 for i enhancements
  - The ANY_VALUE built-in aggregate function is added
  - CREATE ALIAS (SQL) statement includes support for the keyword *LAST
- IBM i Services
  - A variety of new table functions and procedures to access IBM i objects

HA/DR
- PowerHA
  - IBM FlashSystem Asynchronous Policy-based Replication
  - Enhanced Administrative Domain Integration
  - PowerHA Modern Web Interface
  - PowerHA SQL Services
- BRMS
  - Support for 3592-70F tape drives and media
  - Support software data compression for tape and virtual tape

Hardware Features for IBM i
- Support for IBM Power offerings
  - Support for new IBM Power S1012 server
  - Support for #EN2Y and #EN2Z: PCIe 4-port 1 GbE Adapter
- BMC-based ASMI adds IBM i functions to support multiple console function and new support for D-mode IPL tasks without an HMC

Application Modernization & Open Source
- Code for IBM i
  - RPG Programmer
  - Database Extension
- IWS
  - New APIs for managing digital certificates on the system
  - APIs to retrieve TLS system information.
- Rational Development Studio for i– RPG Specific
  - The CONST keyword is now allowed for data structure & standalone fields
  - SND-MSG is enhanced to allow the specification of additional message types
- Rational Developer for i
  - ILE Docs and TAG support include
  - Introduction of a new @LINK{hyperlink} tag
  - Addition of F1 help for tag support
  - Quick filters and Object table view improvements

System Management
- Navigator for i
  - Style changes for a simplified and modernized GUI appearance
  - Improved sign-on prompt for GUI node authorization
  - Networking improvements or multiple TCP/IP services
  - Monitor Jobs now leverage Java 11 or 17
  - Performance Data Investigator (PDI) Enhancements
  - Advanced Job Scheduler support for iASP
  - Console support for ARE is now included in Navigator
- ACS
  - Visual Explain enhancements to RUNSQL Scripts
  - Enhancements to the actions to generate SQL DML statements for tables and views

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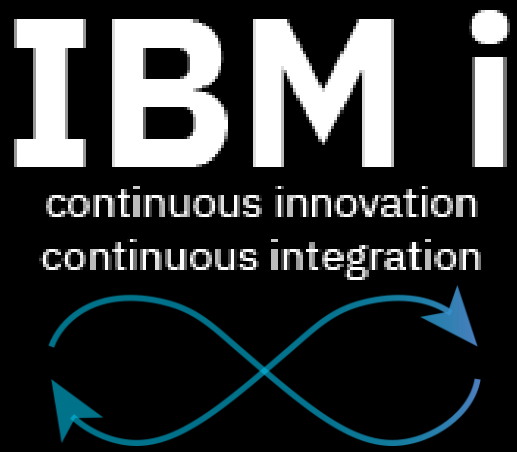
IBM i May 7 TR Announcement

Scott Forstie - forstie@us.ibm.com
Db2 for i Business Architect



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IBM i Access Client Solutions (ACS)

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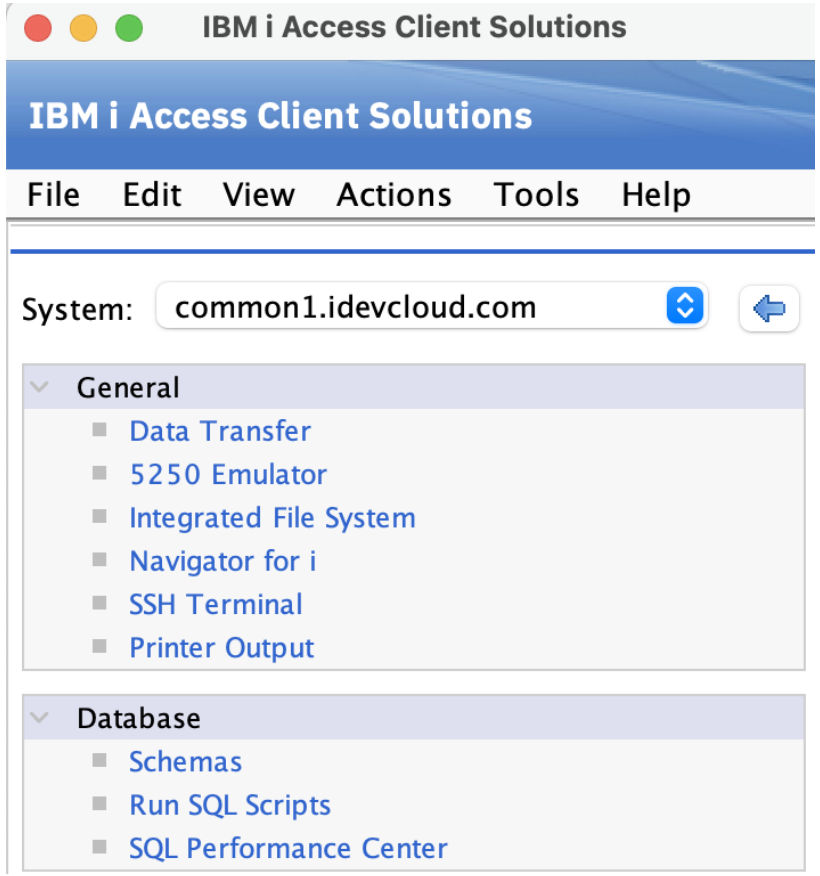

https://ibm.biz/IBMi_ACS

ACS – Version 1.1.9.5

DELIVERED!

Run SQL Scripts (RSS):

- Content Assist performance improvements
- Copying text from Job Log viewer
- When selecting files from a PC, the List or Details is saved
- Insert from Examples extended

Visual Explain:

- Many usability enhancements

Schemas:

- Improved SQL Data Manipulation Language (DML) generation for tables and views

https://www.ibm.com/support/pages/ibm-i-access-acs-updates

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ACS – Visual Explain enhancements

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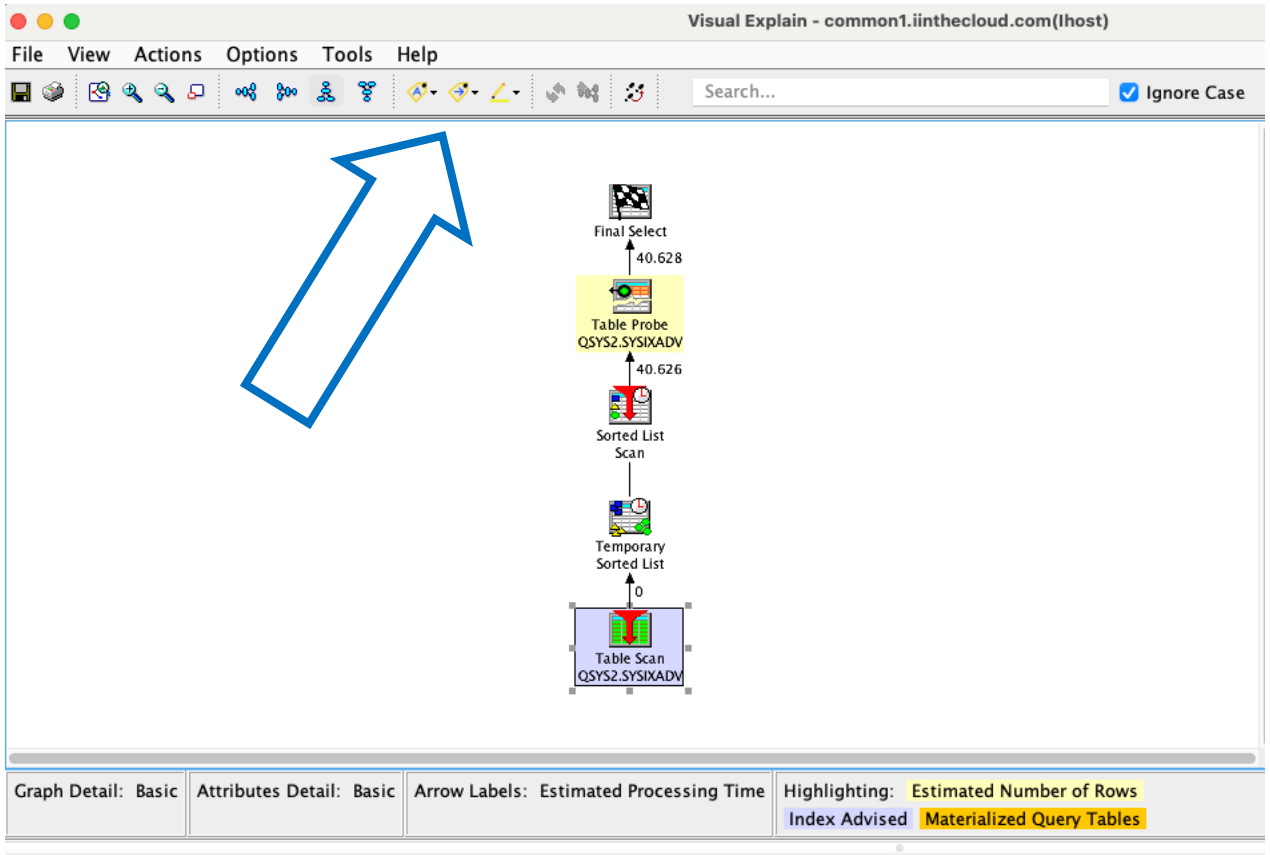
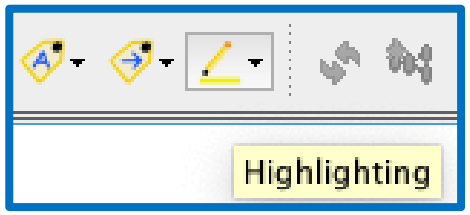



```
select *
  from qsys2.sysixadv
  order by TIMES_ADVISED desc
```



Ideas:

- Visual Explain Buttons for Actuals and Estimates

IBM "Ideas":

- Visual Explain provide ability to change settings via the diagram legend
- Visual Explain Actions menu - differentiate between graph and icon actions
- Visual Explain new arrow label option to show estimated and actual rows
- Visual Explain add tool tip hover text to graph links
- Visual Explain save icon spacing as a persistent setting
- Visual Explain – Improved zoom in and out
- And others…

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Db2 for i – Database Engineering

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SQE:

- Active_Query_Info extended with another filter (Job User)
- Dump_Plan_Cache extended with another filter (IASP)

Catalogs:

- Addition of SYSMEMBERSTAT, which returns more data than SYSPARTITIONSTAT
- Addition of SYSTEM_OBJECT_TYPES, one row for every IBM i object type

Multi-member files and source physical files:

- CREATE ALIAS (SQL) support for *LAST

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Create Alias with *LAST

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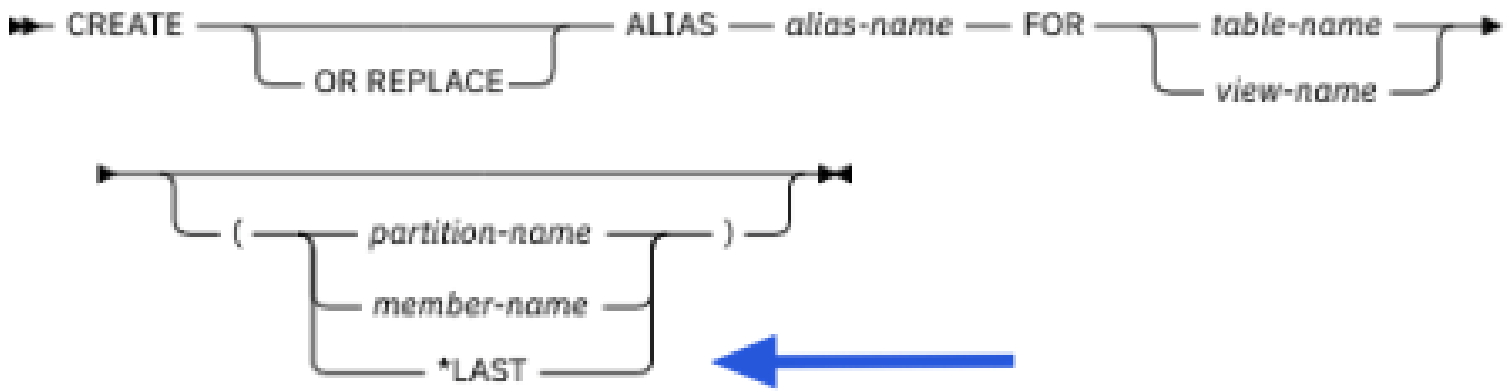
The CREATE ALIAS statement defines an alias on a table, partition of a table, view, or member of a database file at the current or remote server.



- ***LAST corresponds to the most recently created member**
- **The resolution of which member to use occurs at the time of use, not the time of alias creation**
- **Generate SQL on the ALIAS returns *LAST**
- **Save and Restore of the ALIAS retains the *LAST behavior**

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Create Alias with *LAST

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```
--
-- Access TODAY's CS data for SQL PLAN CACHE PERFORMANCE
--
create or replace alias qtemp.TODAYS_SQLPC_DATA for QPFRDATA.QAPMSQLPC(*LAST);

Select * from qtemp.todays_sqlpc_data;
```

Interval number INTNUM	Interval date time DATETIME	Elapsed interval seconds INTSEC	Active queries SQCURQRY	Plans in plan cache SQCURPLN	Plan cache size (MB) SQPCSIZE	Plan cache size limit (MB) SQPCLIMIT	Plan cache size threshold (%) SQPCTHRESH
1	2024-05-01 00:15:00.000000	889	58	1943	252	512	94
2	2024-05-01 00:30:00.000000	900	58	1944	253	512	94
3	2024-05-01 00:45:00.000000	900	58	1945	253	512	94
4	2024-05-01 01:00:00.000000	900	58	1946	253	512	94
5	2024-05-01 01:15:00.000000	900	58	1947	253	512	94
6	2024-05-01 01:30:00.000000	900	58	1948	253	512	94
7	2024-05-01 01:45:00.000000	900	58	1949	253	512	94

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SQL Built-in Functions

- June 2024 – **ANY_VALUE**
- November 2023 – **ENCRYPT_AES256,**
  HTML_ENTITY_DECODE, and HTML_ENTITY_ENCODE
- May 2023 – **More HTTP functions based in QSYS2**
  ADD_DAYS, ADD_HOURS,
  ADD_MINUTES, ADD_SECONDS, & ADD_YEARS

- November 2022 – **FIRST_DAY, JSON_UPDATE, & TIMESTAMPDIFF_BIG**
- May 2022 – **TRY_CAST**
- October 2021 – **New HTTP functions based in QSYS2**
- July 2020 – **INTERPRET built-in function** & **HASH_ROW built-in function**
- January 2020 – **HASH Built-in functions**

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ANY_VALUE aggregate function

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ANY_VALUE(*expr)* aggregate function tells the optimizer that it can return any of the values defined by *expr* that exist within a given group. For certain grouping queries, this:

- Makes queries easier to write
- Enables better index usage

Assume PostalCode uniquely identifies a city and state (mostly true in the U.S.)
I want a count of the customers in each postal code.

```
SELECT COUNT(*), PostalCode FROM Customers GROUP BY PostalCode;
```

IBM Idea: Add an ANY_VALUE aggregate function

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ANY_VALUE aggregate function

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```
SELECT COUNT(*), PostalCode FROM Customers GROUP BY PostalCode;
```

If I want to my query to show the City and State for each PostalCode, I have to add it also to the GROUP BY list:

```
SELECT COUNT(*), City, State, PostalCode FROM Customers
  GROUP BY PostalCode, City, State;
```

To use index access, I need to have an index with three leading keys: **PostalCode, City, State**

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ANY_VALUE aggregate function

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SELECT COUNT(*), City, State, PostalCode FROM Customers
  GROUP BY PostalCode, City, State;
```

To use index access, I need to have an index with three leading keys: **PostalCode, City, State**

With ANY_VALUE, I can add these columns without changing the grouping specification:

```
SELECT COUNT(*), ANY_VALUE(City), ANY_VALUE(State), PostalCode
  FROM Customers GROUP BY PostalCode;
```

This enables my query to use any index that has PostalCode as the leading key.
ANY_VALUE gives the optimizer more implementation choices.

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Db2 for i – Programming

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SQL services for ILE-style programming:

- SYSTOOLS.PUTENV() scalar function
- SYSTOOLS.GETENV() scalar function
- SYSTOOLS.ERRNO_INFO() scalar function

SQL services for the IFS:

- SYSTOOLS.IFS_UNLINK scalar function
- QSYS2.COMPARE_IFS() table function

Enhanced services:

- SYSTOOLS.GENERATE_SPREADSHEET()
- SYSTOOLS.SEND_EMAIL()

- ✓ Support for more spreadsheet types
- ✓ Smarter spreadsheet column width for xlsx and xls spreadsheet types

- ✓ Support for CC
- ✓ Support for BCC
- ✓ Support for up to 20 email recipients
- ✓ Support for up to 10 attachments

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Db2 for i – Security

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SQL services for the audit journal:

- SYSTOOLS.AUDIT_JOURNAL_NA (Attribute Change)
- SYSTOOLS.AUDIT_JOURNAL_PS (Profile Swap)
- Improved performance for some helper functions
- MANAGE_AUDIT_JOURNAL_DATA_MART

SQL services special authority:

- SYSTOOLS.SPECIAL_AUTHORITY_DATA_MART

Improved Secure by default:

- Add Physical File Trigger (ADDPFTRG) changed from *PUBLIC *USE to *PUBLIC *EXCLUDE
- Other changes, some noted in the Memorandum to Users (MTU)

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Audit Journal Data Mart

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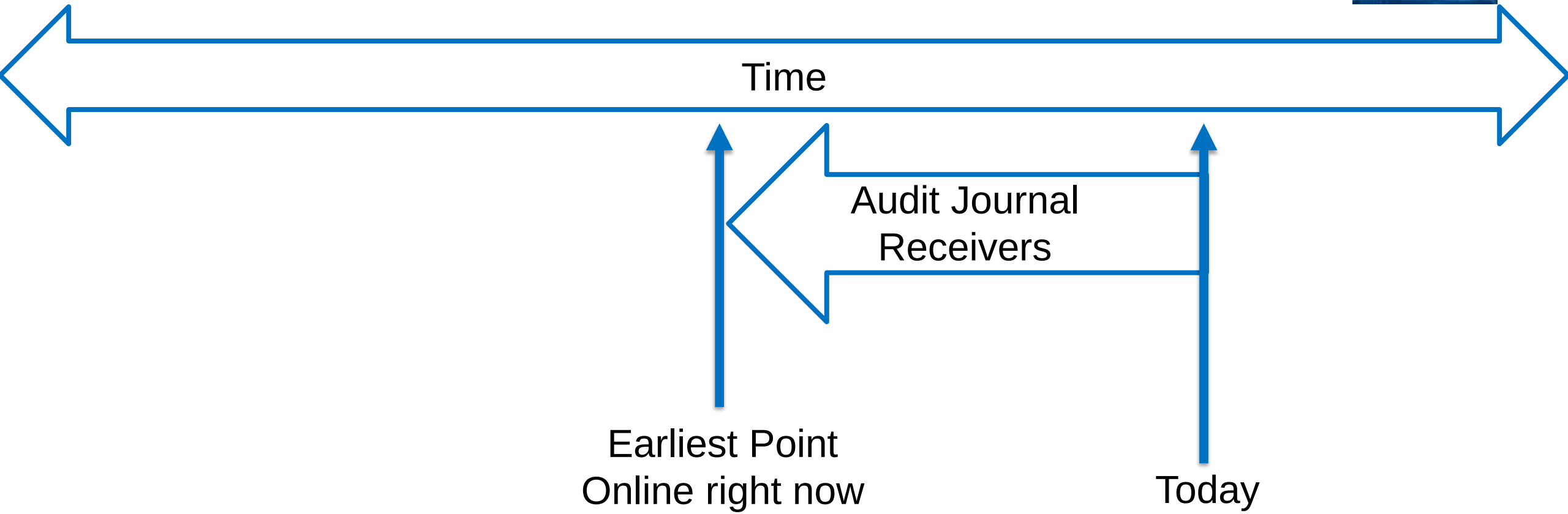

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Audit Journal Data Mart

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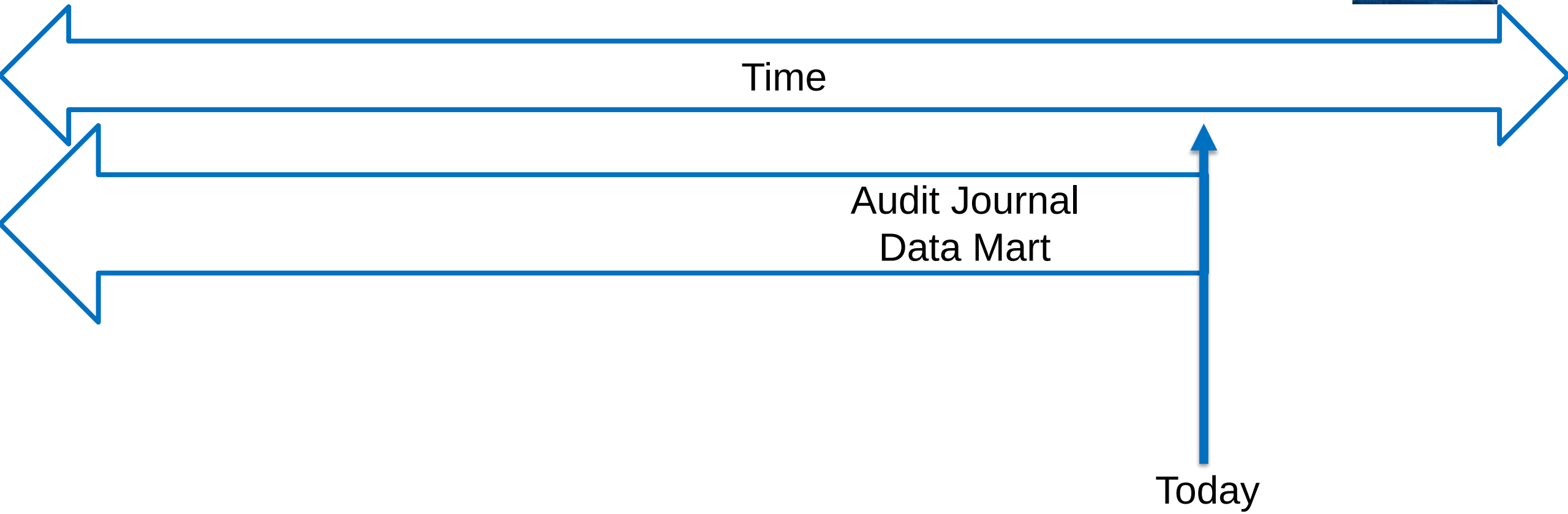

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Audit Journal Data Mart

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Establish a Data Mart for the AF (Authority Failure) audit journal entries

```
cl: crtlib AUD_DMART;
cl: RVKOBJAUT OBJ(AUD_DMART) OBJTYPE(*LIB) USER(*PUBLIC) AUT(*ALL);

CALL QSYS2.MANAGE_AUDIT_JOURNAL_DATA_MART(
   JOURNAL_ENTRY_TYPE => 'AF',
   DATA_MART_LIBRARY  => 'AUD_DMART',
   STARTING_TIMESTAMP => '*FIRST',
   ENDING_TIMESTAMP   => DEFAULT,
   DATA_MART_ACTION   => 'CREATE'
);
```

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Audit Journal Data Mart

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Add entries to the data mart, starting at the latest point of previous capture

```
CALL QSYS2.MANAGE_AUDIT_JOURNAL_DATA_MART (
   JOURNAL_ENTRY_TYPE => 'AF',
   DATA_MART_LIBRARY  => 'AUD_DMART',
   STARTING_TIMESTAMP => '*CONTINUE',
   ENDING_TIMESTAMP   => NULL,
   DATA_MART_ACTION   => 'ADD'
);
```

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Db2 for IBM i blog

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Db2 for IBM i

News and advice related to Db2 for i

Tuesday, May 7, 2024

Another Round of Db2 for i Enhancements

Today, IBM announced the content of its biannual delivery of new and enhanced IBM i capabilities via the upcoming TRs (Technology Refresh) for the 7.4 and 7.5 releases. As always, there are some nice additions to Db2 for i to make your life as an application developer and/or Database Engineer (DBE) easier!

The ANY_VALUE aggregate function simplifies the query writing and eliminates the performance overhead by telling Db2 that any old value in the specified column (or expression) will do as shown in this example query.

```
SELECT clientName, SUM(salesAmt) AS totSales,
       ANY_VALUE(clientEmail)
  FROM salesHistory
  GROUP BY clientName
  ORDER BY totSales DESC LIMIT 10
```

The usability of the ACTIVE_QUERY_INFO service was also greatly enhanced for those of you that are trying to monitor and track queries running in host server jobs like the QZDASOINIT jobs. The original version of the service had a job user parameter, JOB_USER, to track queries for a specific user. However, the JOB_USER filter was not applied to the current user of host server jobs. So essentially, there was no way to do user-level filtering for active queries running in host server jobs. That limitation is now gone with the addition of a new USER_NAME parameter that is applied to the current user of a host server job. The following example shows how you can easily target the active queries run by BADUSER in the QZDASOINIT server jobs.

```
SELECT * FROM
   TABLE(ACTIVE_QUERY_INFO(JOB_NAME=> 'QZDASOINIT',
                           USER_NAME=> 'BADUSER'))
```

These are my highlights of some of the Db2 for i advancements in the latest IBM i TR, so I'd encourage you to review the complete list on the IBM i Technology Updates wiki. Also, don't forget that the Memorandum to Users (MTU) gets updated with each IBM i TR as well – many users mistakenly believe that the MTU only gets updated at the GA of a new release. Here are the links to the MTU:

- IBM i 7.5 MTU
- IBM i 7.4 MTU
- IBM i 7.3 MTU

https://db2ibmi.blogspot.com/2024/05/another-round-of-db2-for-i-enhancements.html

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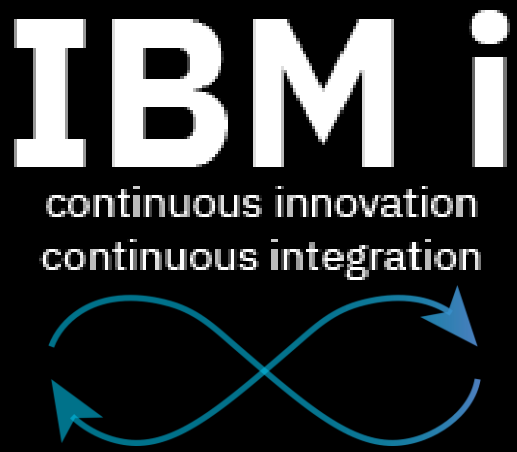
IBM i May 7 TR Announcement

Tim Rowe - timmr@us.ibm.com
STSM – Business Architect Application Development
& Systems Management for IBM i



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Modernization Engine for Lifecycle Integration

Merlin V2

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Merlin V2 - GA planned for June 15

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Cloud ready modern ecosystem for IBM i native development

- Built on the latest in DevSpaces
- Leveraging the latest Code for i technology
  - Improved developer experience
  - Db2 integration! Create and test your SQL from your Merlin IDE interface
  - Tools to help move from Source Physical Files into a GIT Repo
- Simplified OpenShift Requirements with Single Node OpenShift (SNO)

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Merlin V2 - GA Jun 15

IBM i
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Cloud ready modern ecosystem for IBM i native development

- Supports IBM i 7.3 or later
- Supports Power9 and Power10 platforms only
- Leverages DevSpaces vs old Eclipse based environment
- Full for Code for IBM i support built on VS Code
  - Latest Code for IBM i additions including Db2 for i plugin
  - Support optional 3rd party plugins for Merlin IDE
- Improved Debugger support
- Latest ARCAD product updates:
  - Transformer
  - Observer
  - Builder
- Supported for OpenShift v4.14 & Single Node (SNO)
- Subscription based pricing only
- Contains a full replacement for source control management solutions
- Improved usage metrics for better resource estimations

- Merlin v1 withdrawal
  - EOS notice will be 5 months vs standard 1yr
  - Easy transitions to Version 2

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Merlin - Modernization Engine for Lifecycle Integration

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- Modern / Centralized Source Control and Branching
- Modern RPG
  - Convert Fixed to Fully Free Format
- Application Impact Analysis
- Browser based VSCode IDE
- Intelligent Build
  - Comprehensive IBM i application builds
- Automated build integration
  - Jenkins
- Safe, Secure, Running in RedHat OpenShift or SNO

Secure, full function modern development ecosystem

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Visual Studio Code & Code for IBM i

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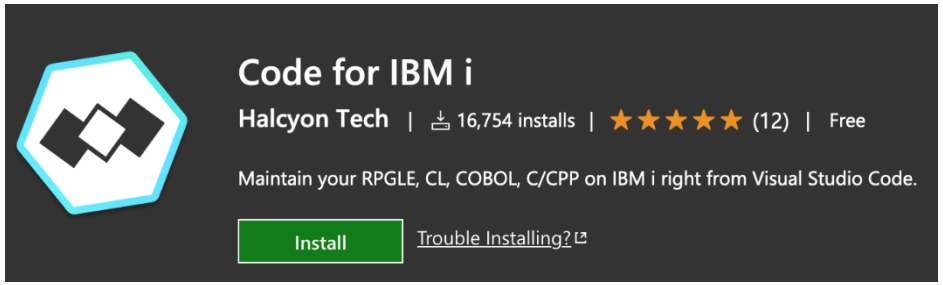
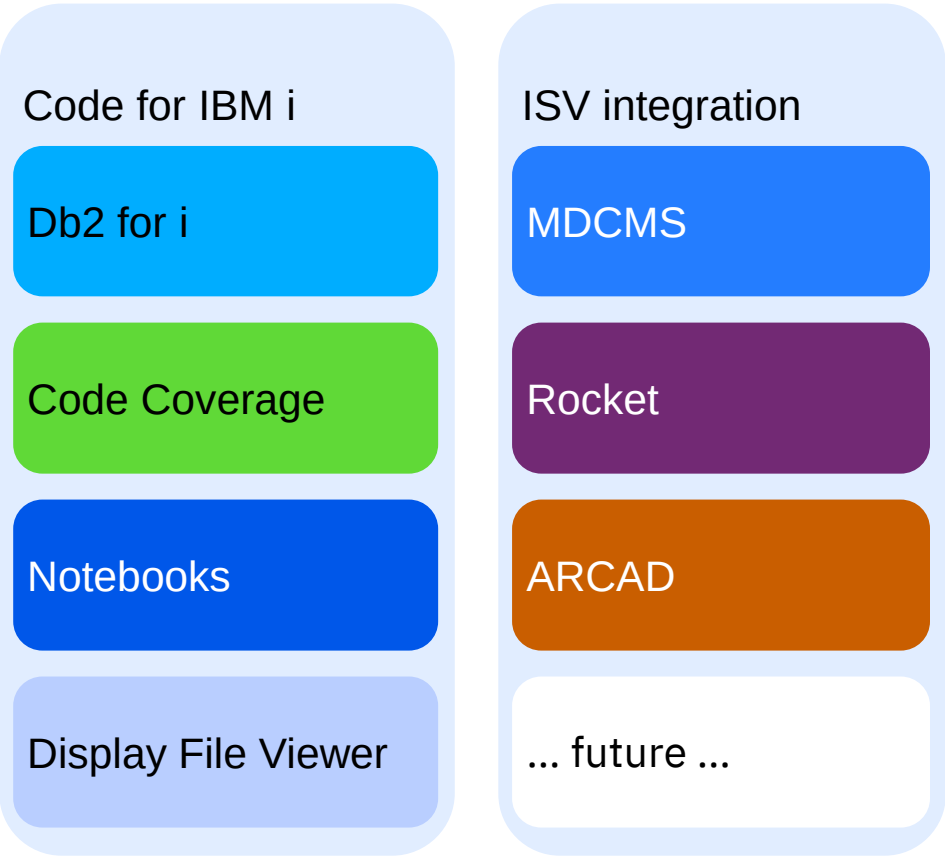
- Used by 74% of professional developers
- 27k+ installs
- 2000+ daily users
- Extended by Merlin and ISVs





Developer statistics from StackOverflow Survey 2023

Reference customers: FNZ Group, KS3 Solutions, CMA Technology Solutions, Amalgamated Banks of South Africa, Directa SIM, Vermont Information Processing, Polar Beverages, Wright Service Corp, CPB Software

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Db2 Extension within Code for i

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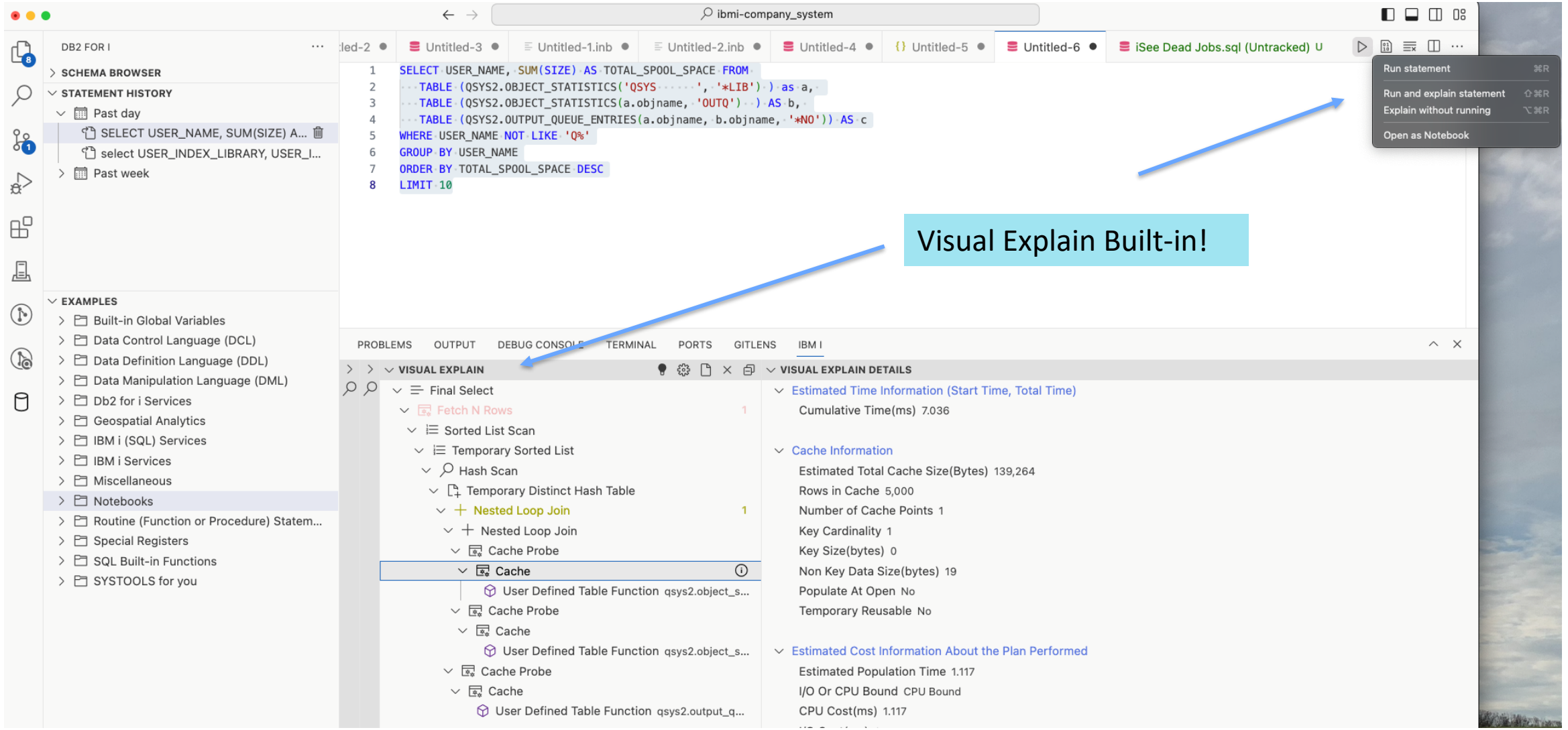

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Support for the SQL Error Logging Facility (SELF)

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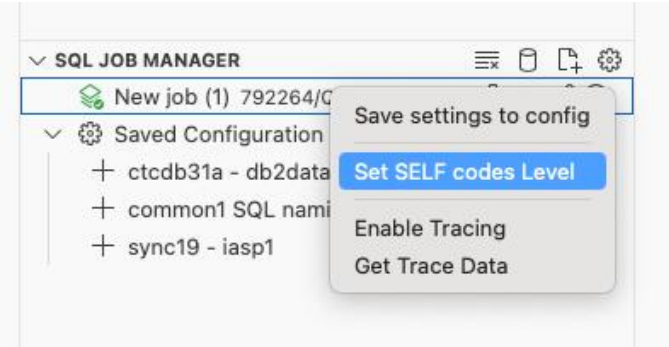
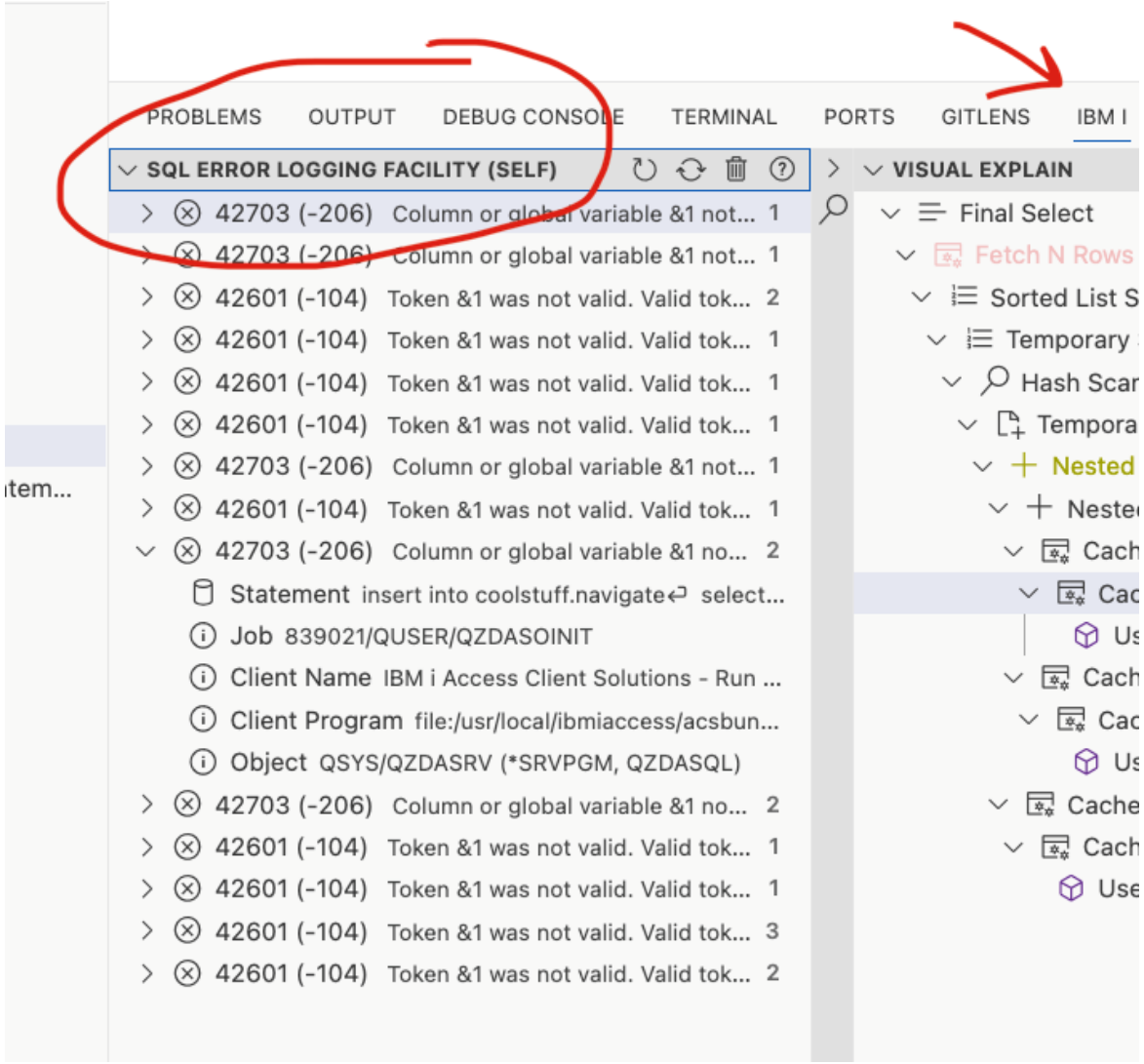
Challenge: Finding, understanding, and fixing SQL errors and warnings

SELF - Captures details about user specified SQL errors or warnings

VsCode Db2 for i extension provides a new easy to use interface for seeing the item captured by SELF





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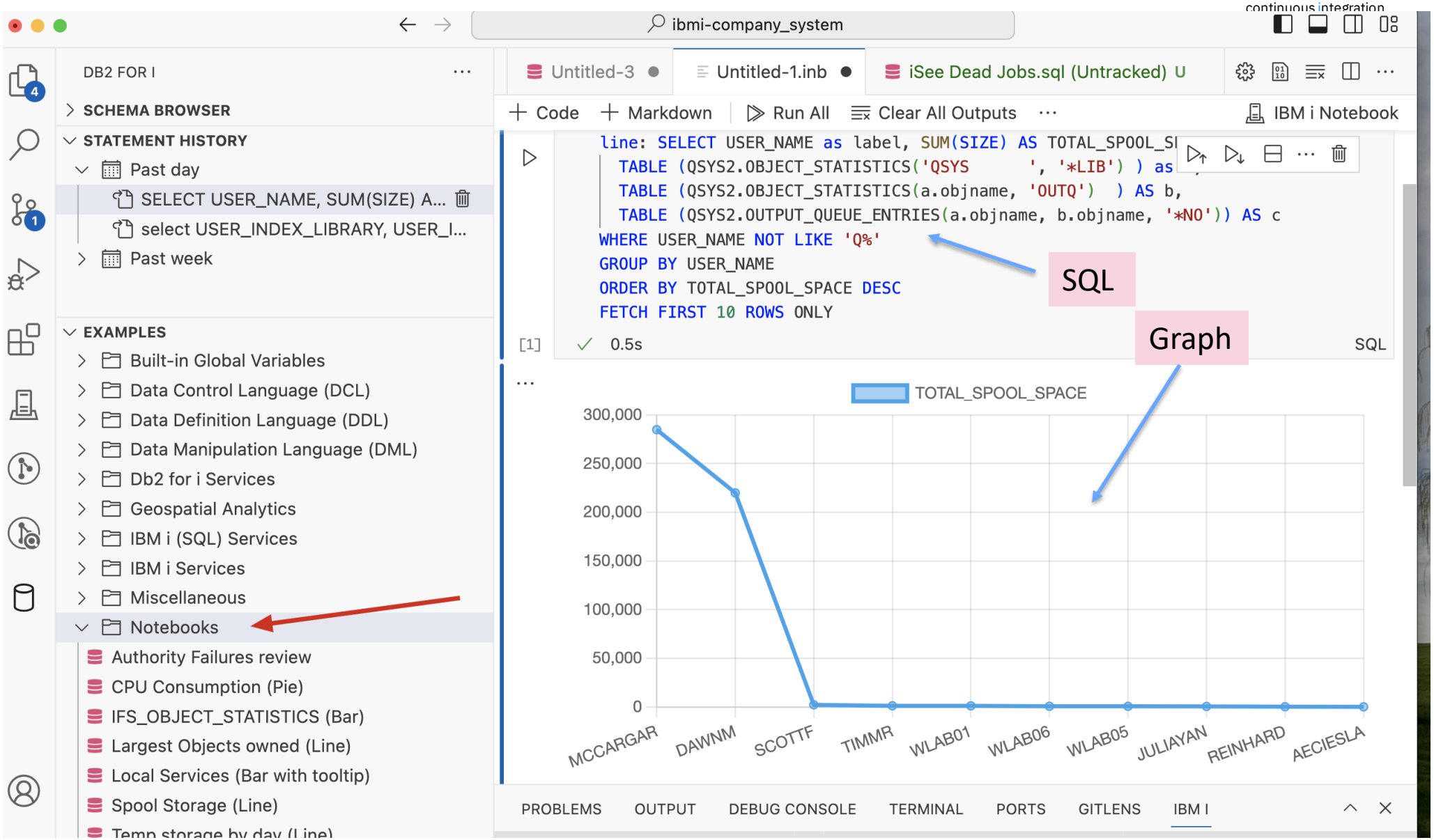
Notebooks in VsCode

SQL in..... Generated data delivered in Graph form!!!

Publish as a doc!!!



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Notebooks published as a Report!

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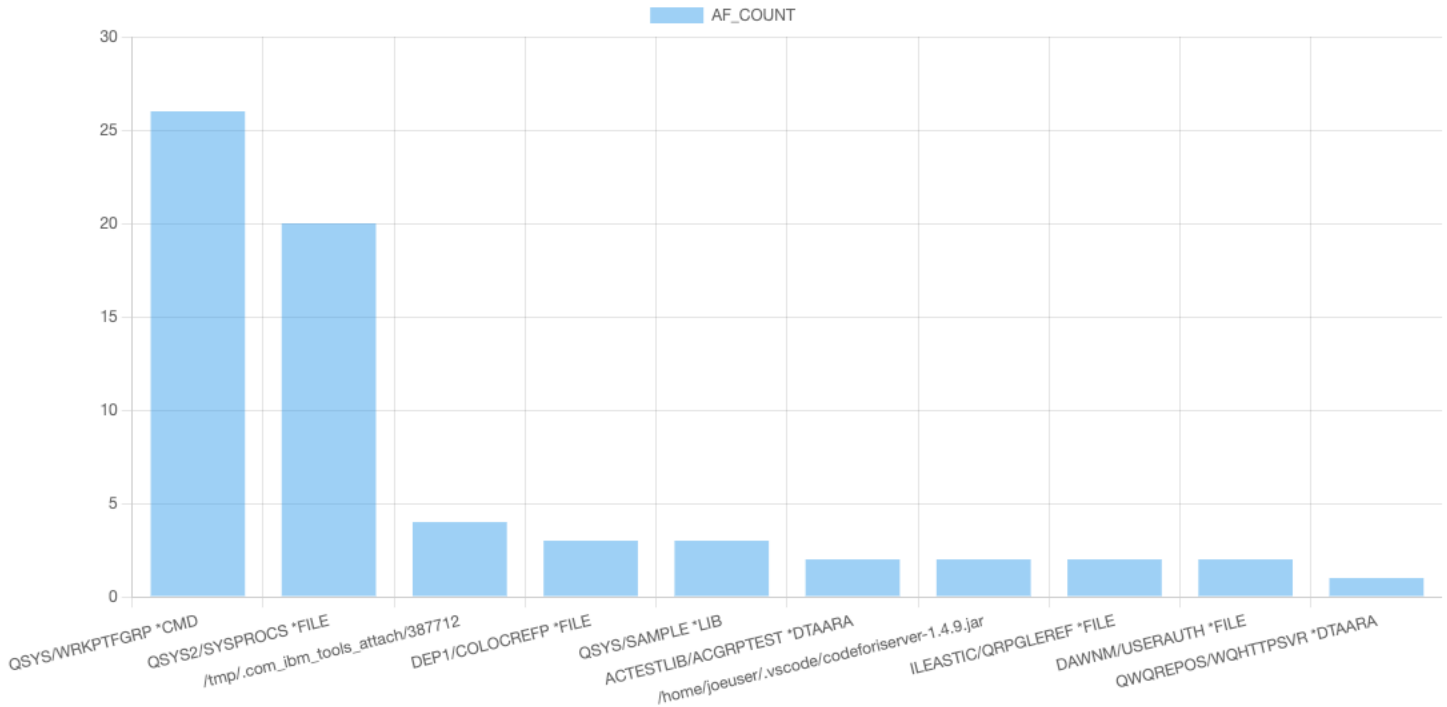
file:///Users/scottforstie/AF failures on common1 - april 30.html

Which objects are having the authorization failures?

```
select coalesce(
        path_name, object_library concat '/' concat object_name concat ' ' concat object_type) as label,
      count(*) as AF_count
 from table (
     SYSTOOLS.AUDIT_JOURNAL_AF(STARTING_TIMESTAMP => current timestamp - 1 month)
   )
 group by coalesce(
     path_name, object_library concat '/' concat object_name concat ' ' concat object_type)
 order by AF_count desc limit 10
```



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iSee educational videos (hosted by COMMON)

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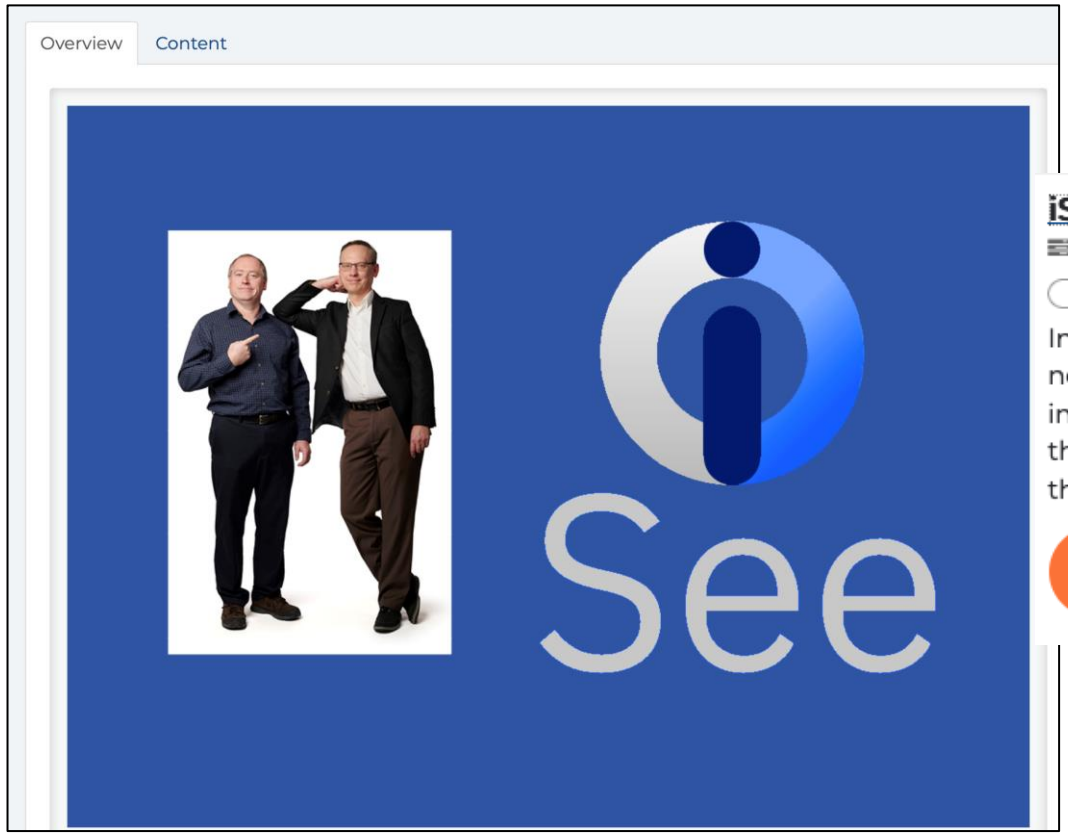
Many “free” learning opportunities



iSee VsCode Db2 for i Style

Contains 1 Component(s)

OVERVIEW | SPEAKER(S)

In the previous iSee we learned the basics on how to use and install VsCode for your IBM i development needs. In this session we will venture down a path near and deer (wonderful creature that likes to run out in front of your cars) to Scott, creating SQL for IBM i. This includes accessing databases, as well as getting the most out of your IBM i Services leveraging SQL. We will show you the power of this Db2 support that the Code for i team has been working on. Buckle up!

MORE INFORMATION

https://learn.common.org/products/ibm-isee#tab-product_tab_overview

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IBM i Remote System Explorer API

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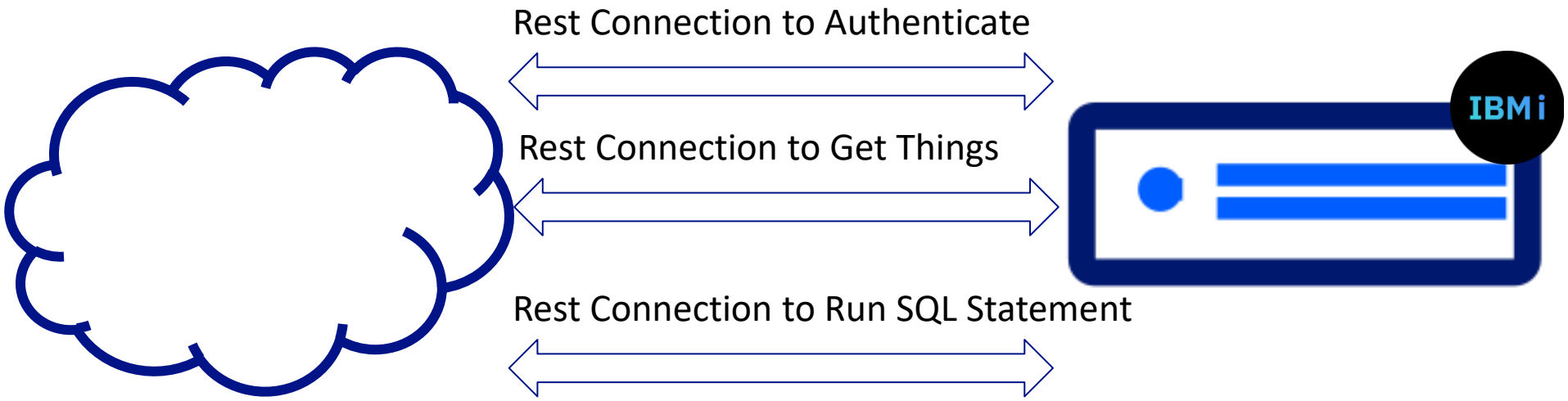
Authenticate to an IBM i and Access Data / Change things with REST



https://www.ibm.com/support/pages/node/6982701.

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RSE API – New DCM Management Services

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POST `/api/v1/security/dcm/cert/list` Retrieve a list of certificates in a certificate store.

Example request:

```
{
  "certStoreType": "CMS",
  "certStorePath": "*SYSTEM",
  "certStorePassword": "passw0rd",
  "filters": {
    "alias": "q*",
    "certTypes": [
      "SERVER_CLIENT",
      "CERTIFICATE_AUTHORITY",
      "CERTIFICATE_SIGNING_REQUEST"
    ],
    "daysUntilExpiration": 5000,
    "excludeExpired": false
  }
}
```

List Certificates

POST `/api/v1/security/dcm/cert/import` Import a digital certificate.

Sample request:

```
{
  "certStoreType": "CMS",
  "certStorePath": "*SYSTEM",
  "certStorePassword": "myPassw0rd",
  "certType": "SERVER_CLIENT",
  "certAlias": "mylabel",
  "certData": "BASE64-BLOB",
  "certDataPassword": "myPassw0rd"
}
```

Import Certificates

POST `/api/v1/security/dcm/appdef/associate` Assign digital certificate(s) to an existing application definition.

Example request:

```
{
  "id": "myappdef",
  "type": "SERVER",
  "certAlias": [
    "mylabel1",
    "mylabel2"
  ]
}
```

Associate Certificates

And More….

Everything you need to Automate the regular management of certificates in DCM

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PTFs are available that contain the new DCM REST APIs. The PTFs are:

SI85817	V7R5M0 (RSE APIs)
SI86098	V7R5M0 (DCM)
SI85818	V7R4M0 (RSE APIs)
SI86097	V7R4M0 (DCM)
SI85819	V7R3M0 (RSE APIs)
SI86095	V7R3M0 (DCM)

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Navigator

https://www.ibm.com/support/pages/navigator-i

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Navigator – Audit Journals Like Never Before!

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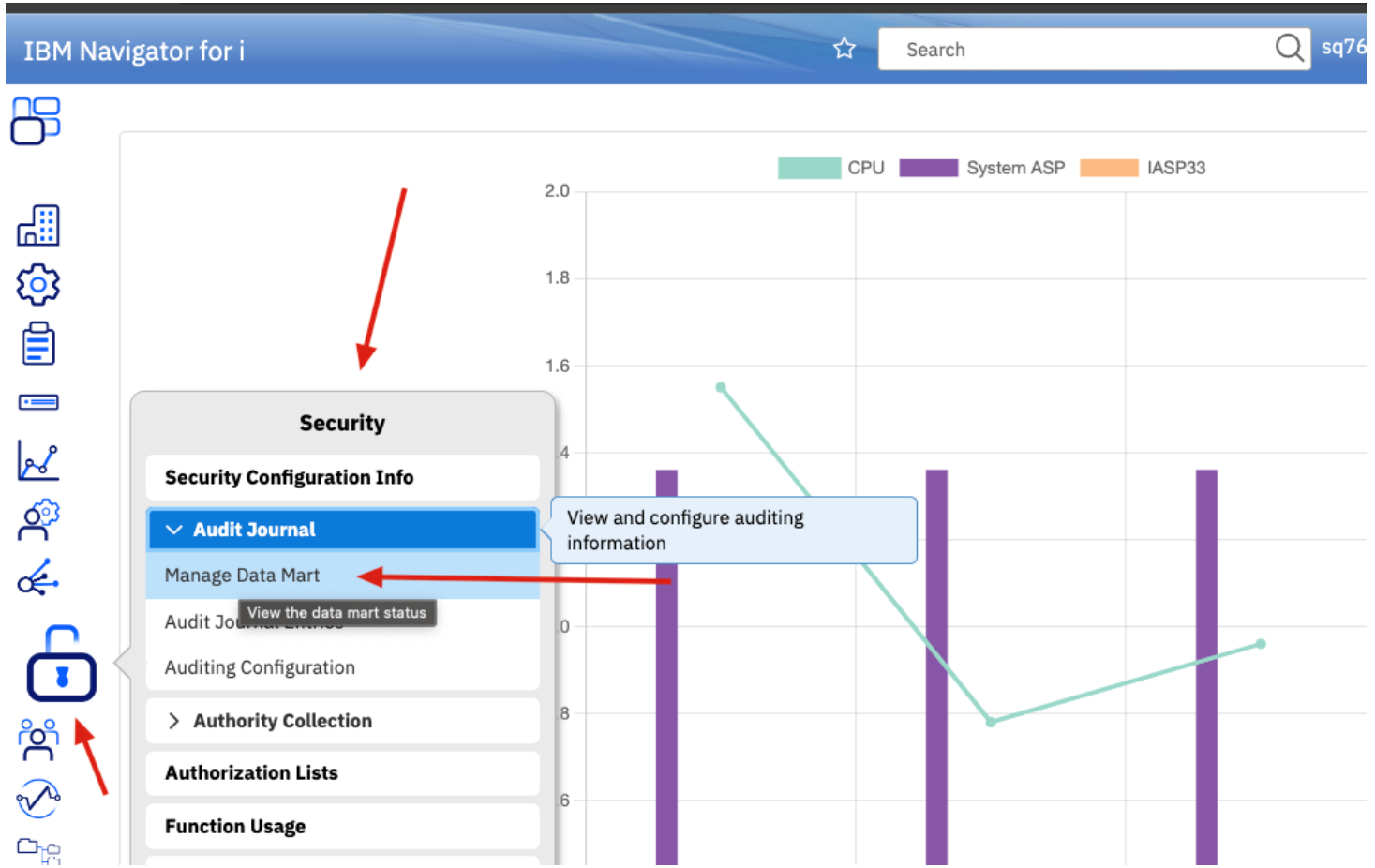
New Datamart!

- Consolidate Audit entries across many days to enable fast graphing and inspection
- Pay attention to Audit info to spot trends and security concerns



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Navigator – Audit Journals Like Never Before!

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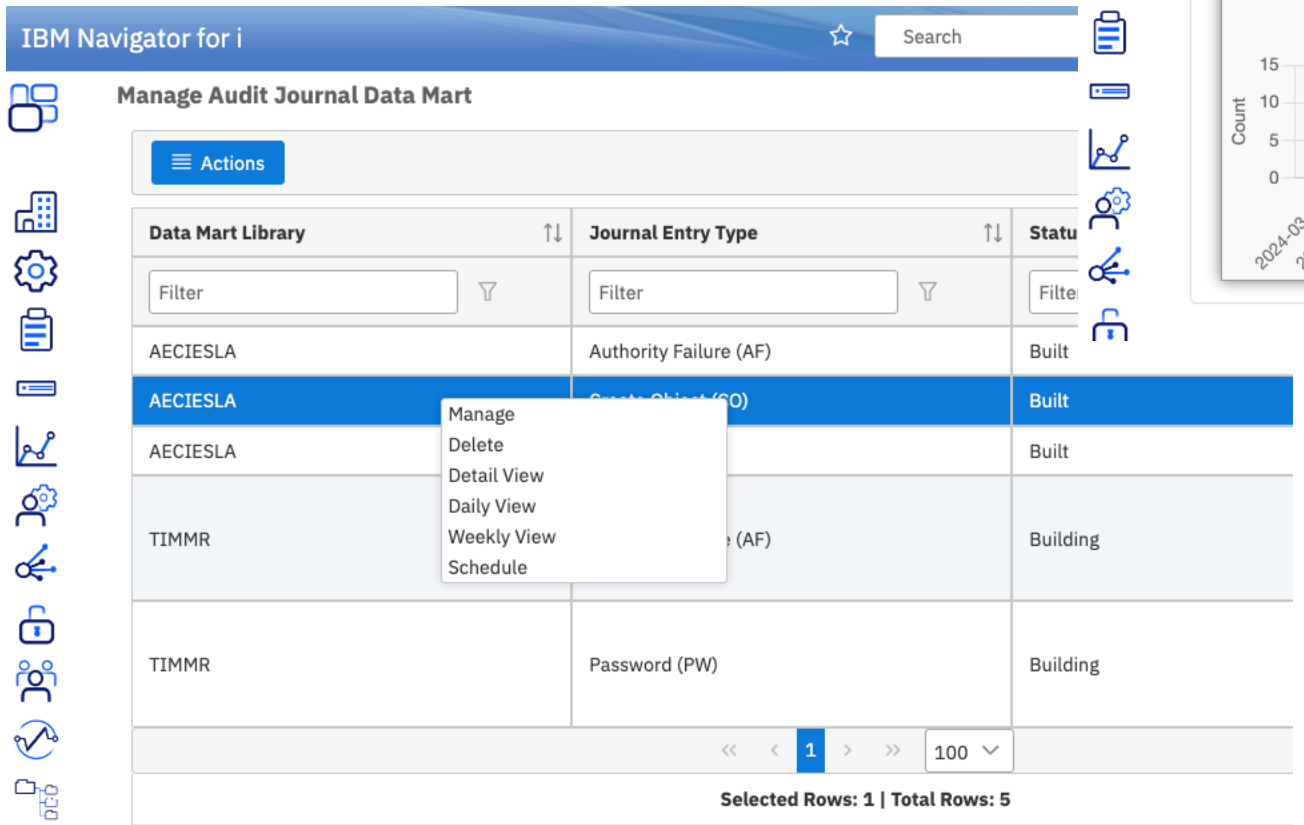
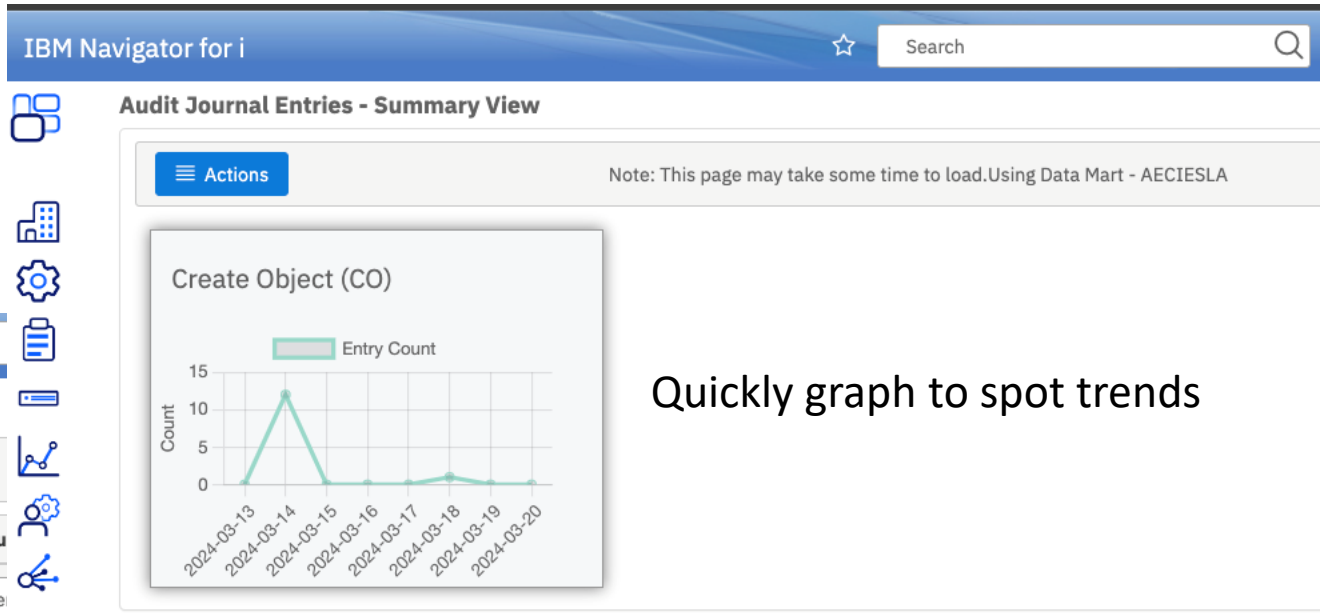
Create a data mart for each audit type of interest





Quickly graph to spot trends

View details to see what is causing the trends

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HTTP, IAS and IWS Server Management

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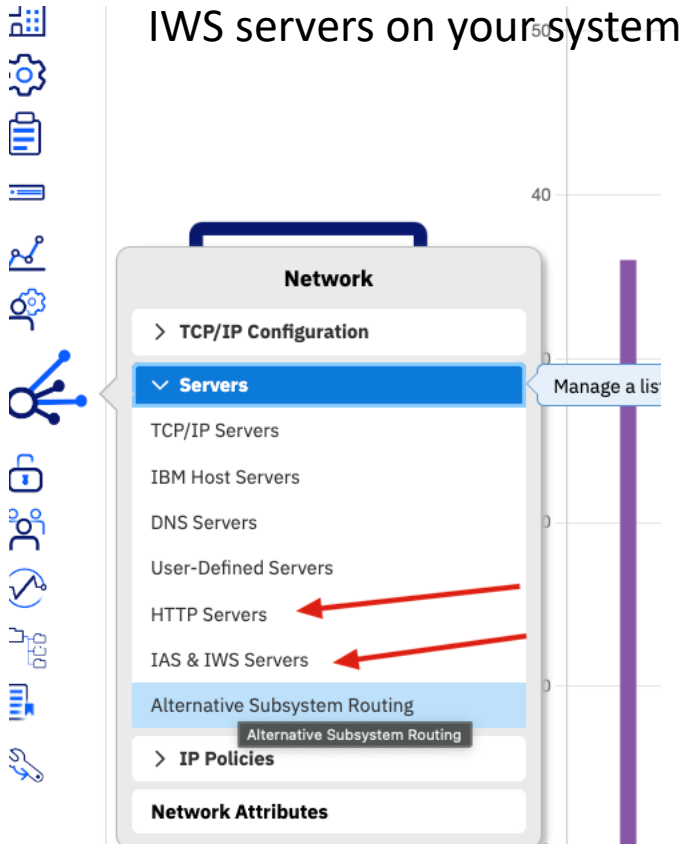
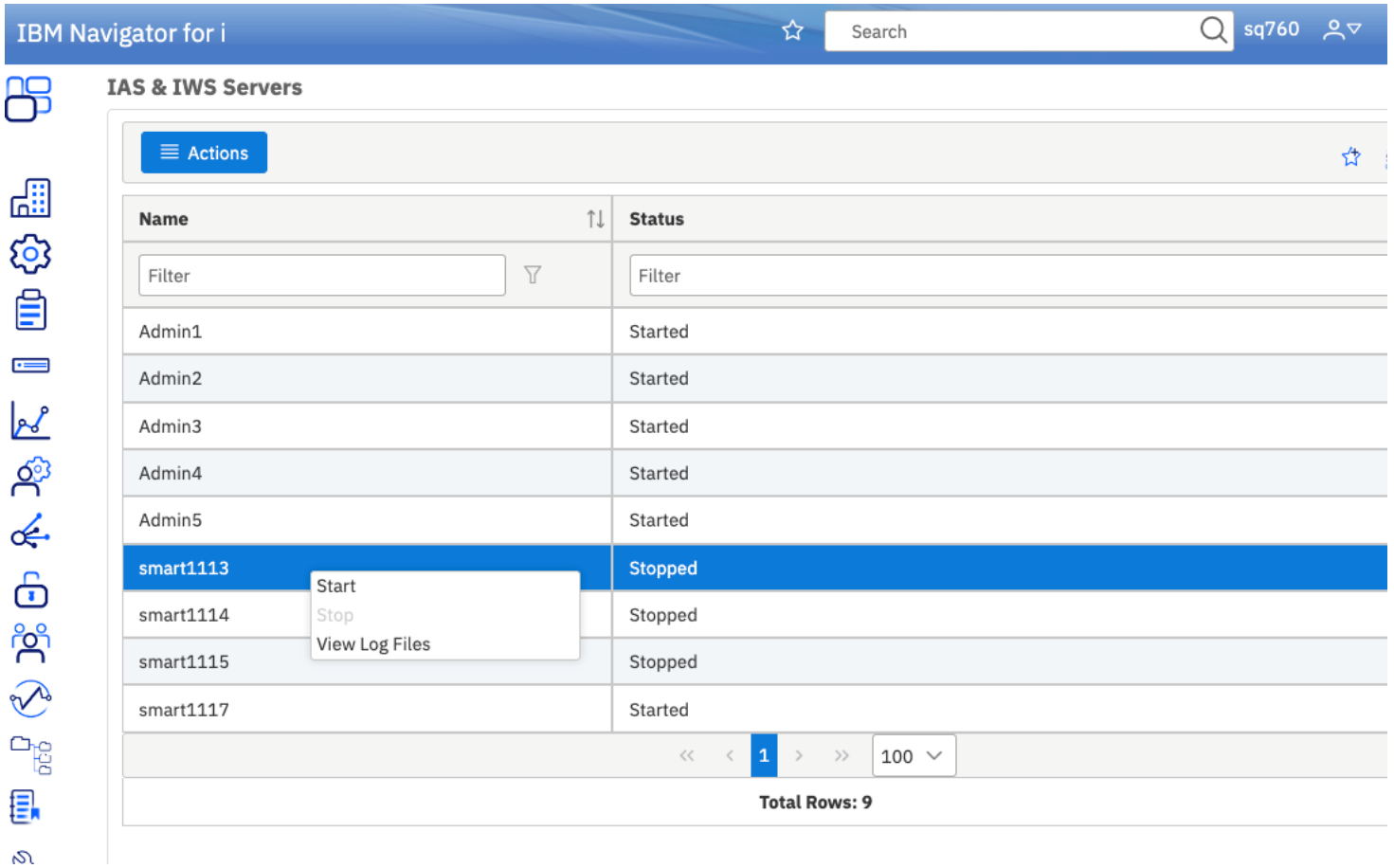
See all the HTTP, IAS, and IWS servers on your system





Manage the servers all from Navigator

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Updated Angular Infrastructure – Cleaner Look

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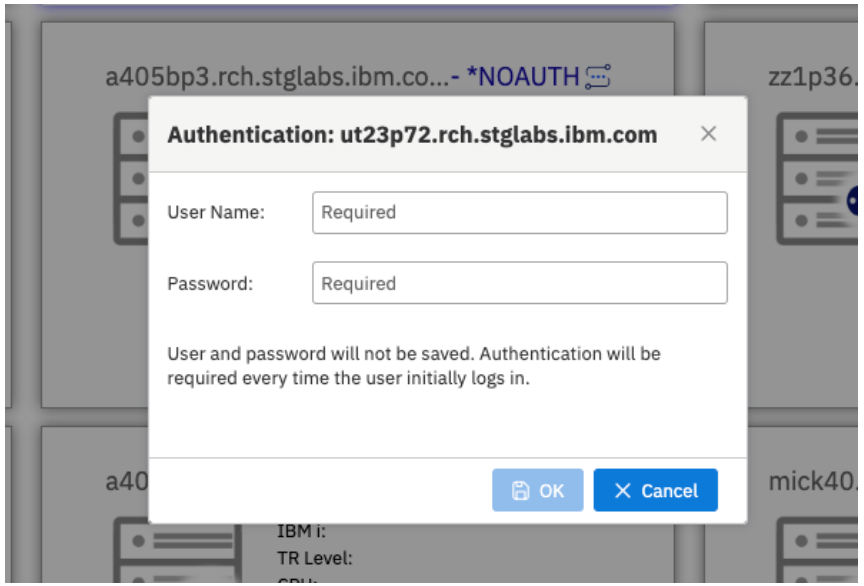
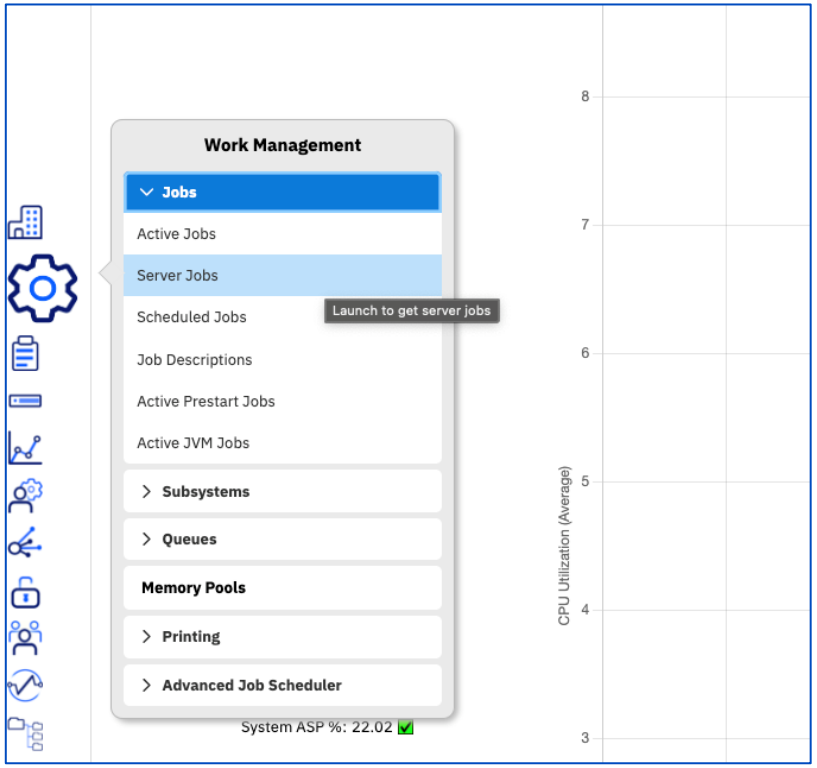


Cleaner prompt for authenticating to an IBM i node



Cleaned up left nav menu

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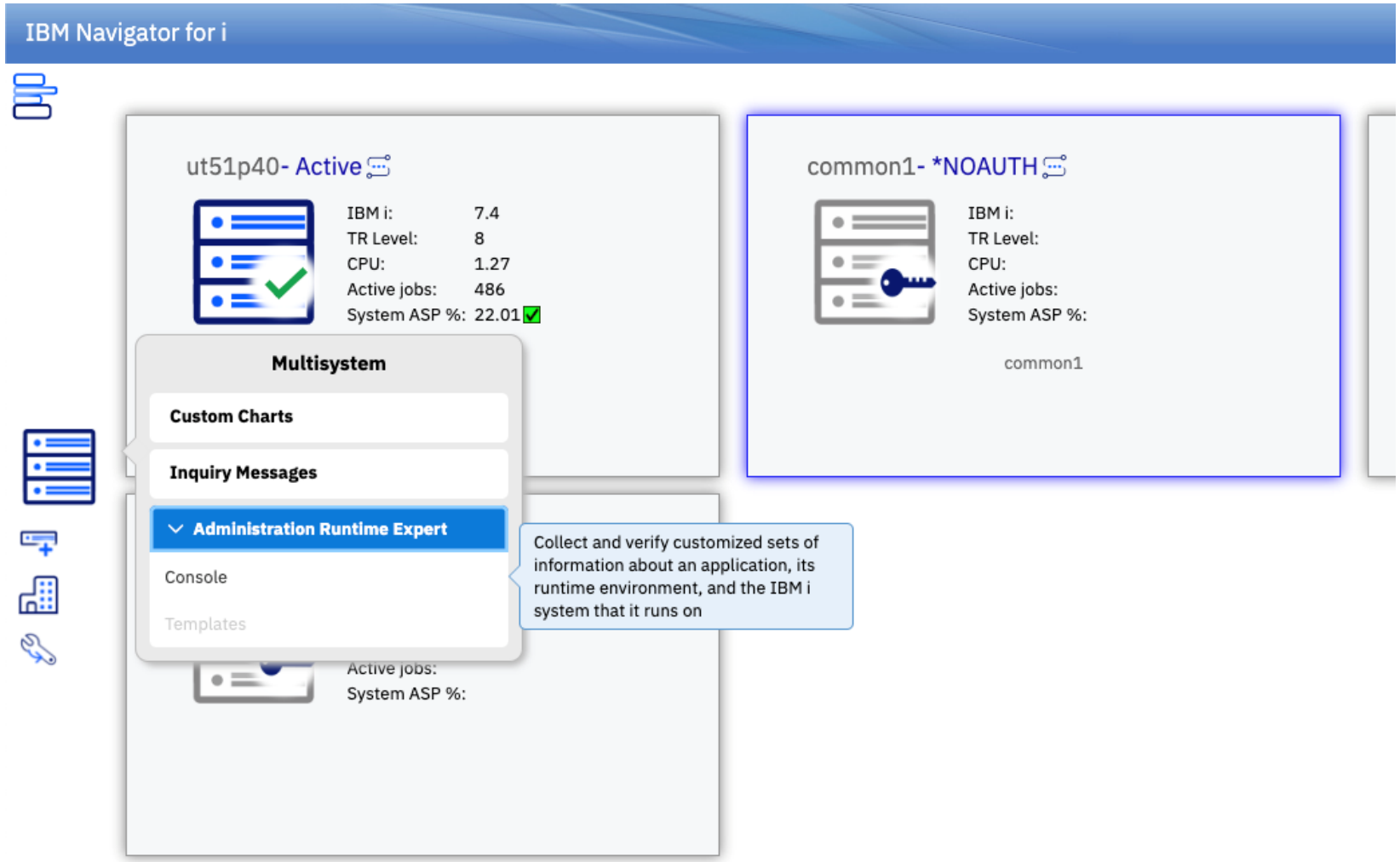
ARE – Console support built into Navigator



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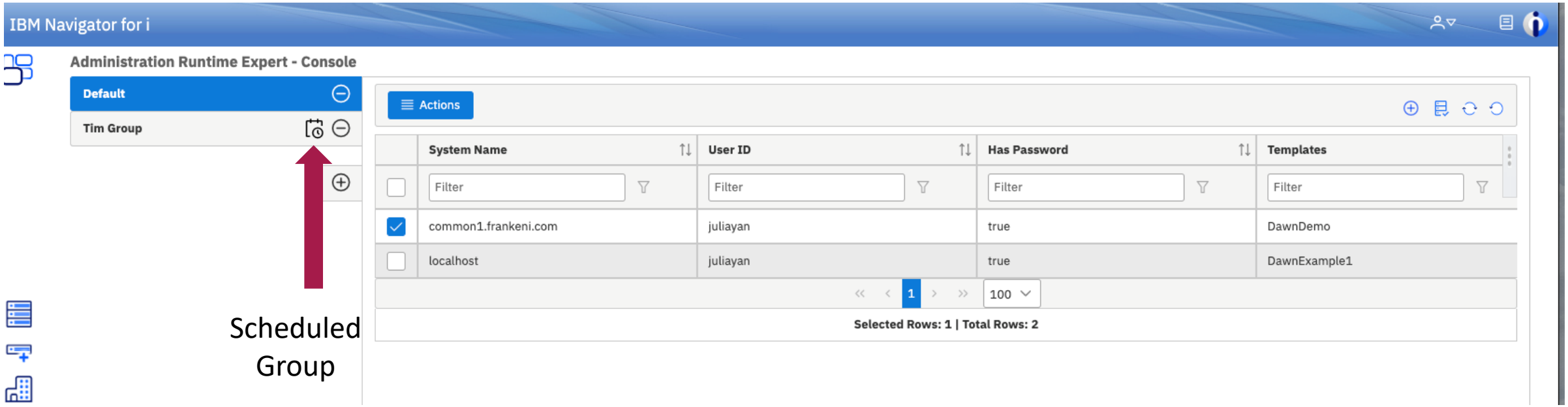
ARE – Run Template



Add Group of Systems and Templates to Verify

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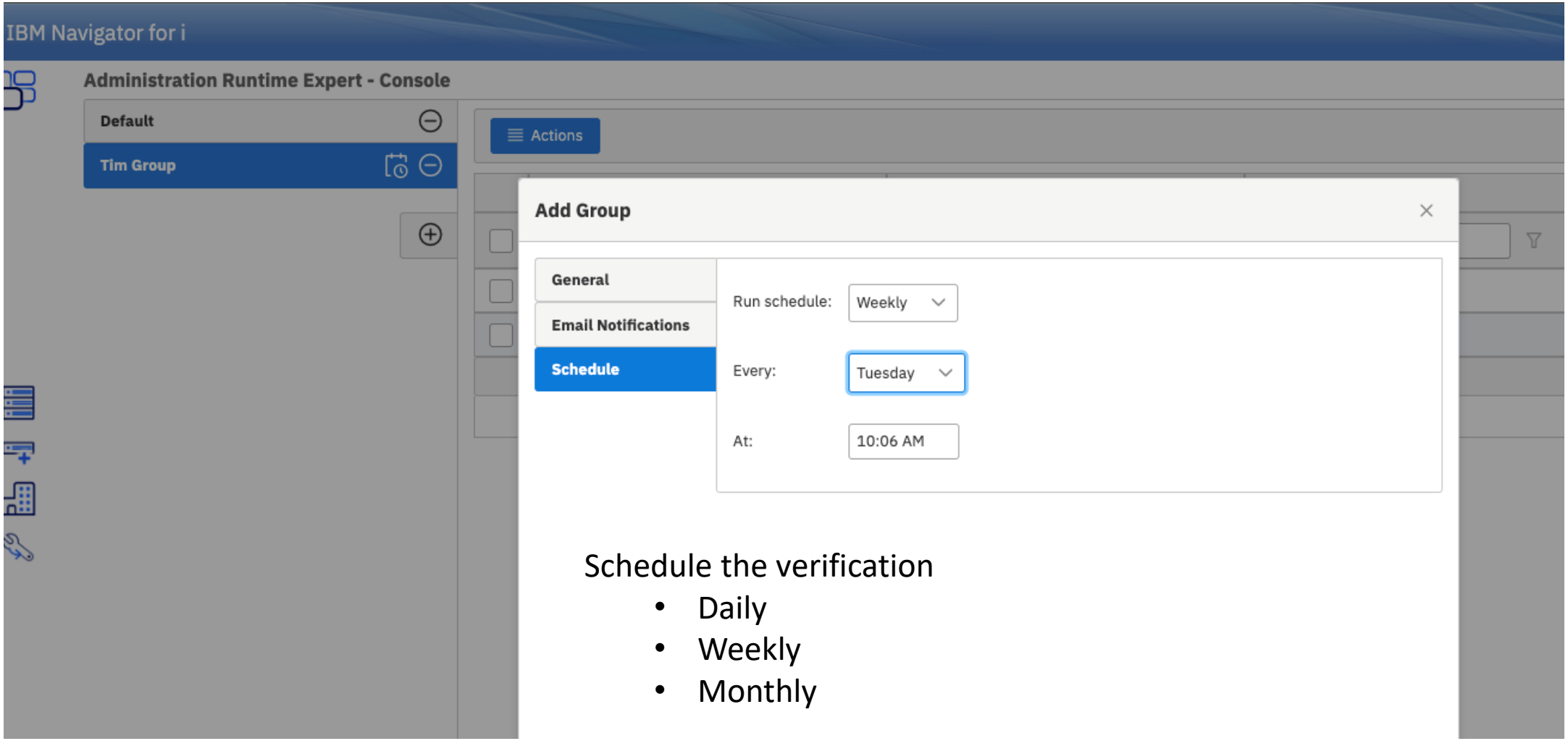
ARE – Schedule a Verification



Schedule the verification

- Daily
- Weekly
- Monthly

Schedule now tied to Admin1. Restart Admin1 and Scheduled Verifications are resumed

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ARE – Details and Fix Actions

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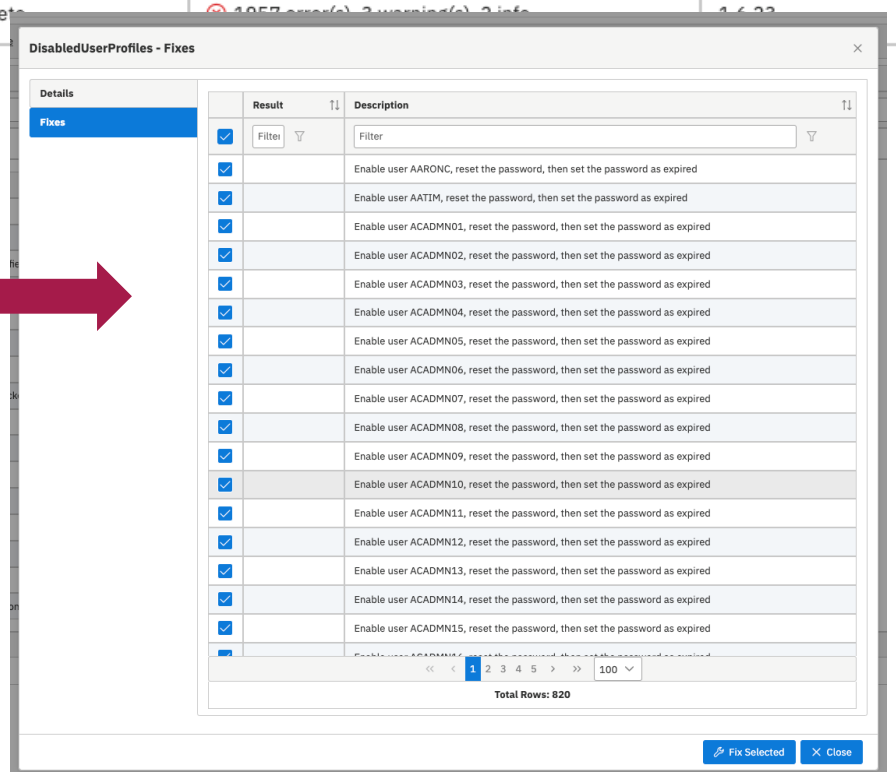
IBM Navigator for i

Administration Runtime Expert - Verify Systems

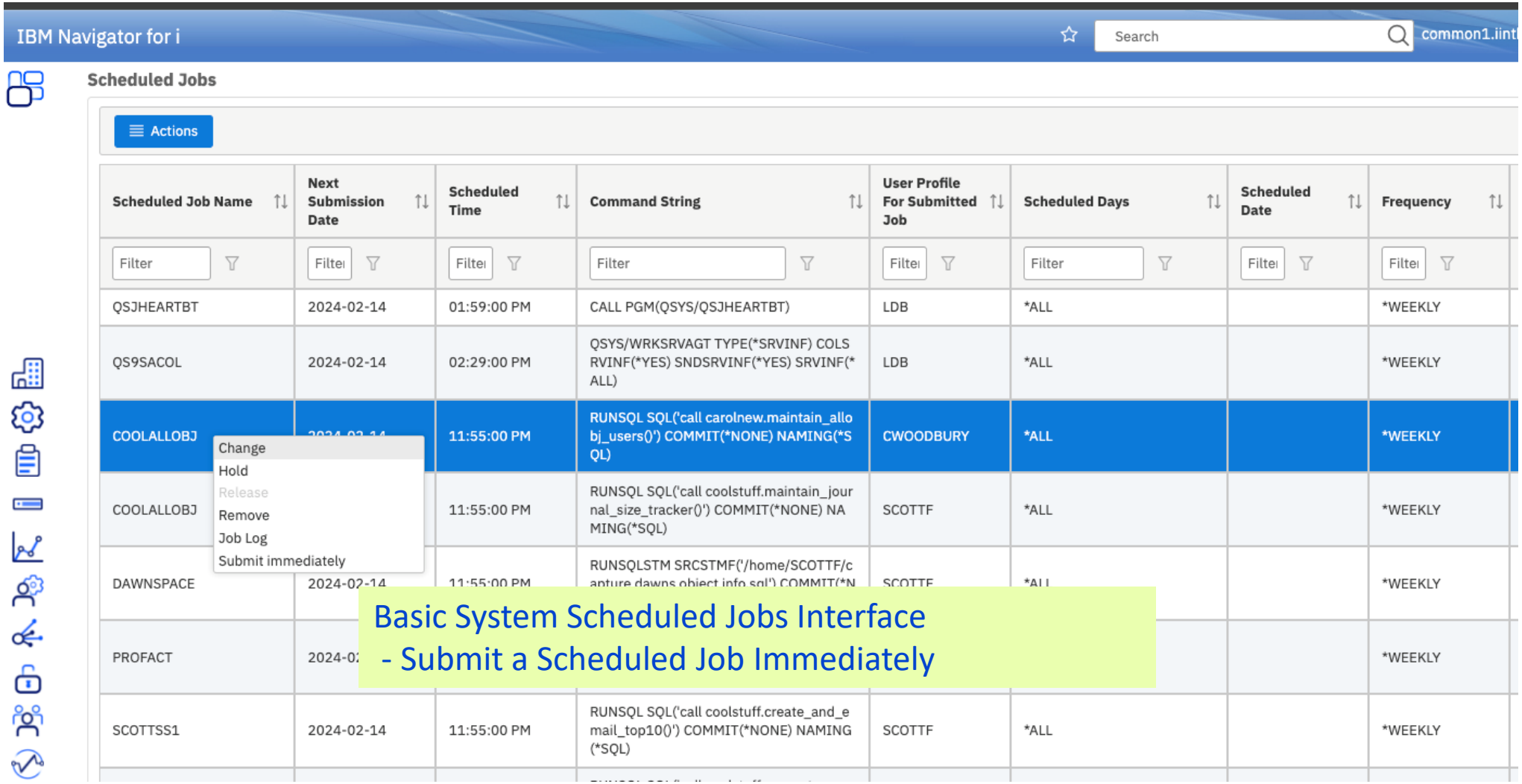
Actions | Console > Verify Systems

System Name	User ID	Templates	Status	Result	Core Version
common1.frankeni.com	JULIAYAN	DawnDemo	Complete	1957 error(s), 3 warning(s), 3 info	1.6.23

Plugin Name	Attributes Verified	Errors	Warnings	Info	Action
Authority Verifier	2466	76	0	0	Fixes
Command Verifier	16	1	0	0	Details
Configuration Attribute Verifier	31	4	0	0	Details
DisabledUserProfiles	0	1640	0	0	Fixes
File Attribute Verifier	1495	207	0	0	Details
FirmwareStatus	0	0	0	0	
NetServerFileShares	0	1	0	0	Details
Network Configuration Checker	0	0	0	0	
Network Verifier	0	0	0	0	
PTF Verifier	43	11	0	0	Fixes
Port Verifier	4	0	0	0	
Product Verifier	11	3	0	0	Details
SQL Query Verifier	20	5	2	0	Details
System Value Verifier	22	6	1	1	Details
User Profile Verifier	120	2	0	0	Fixes
Verify Collection Services Configuration	0	1	0	1	Details



Scheduled Jobs – Submit Immediately



Basic System Scheduled Jobs Interface
- Submit a Scheduled Job Immediately

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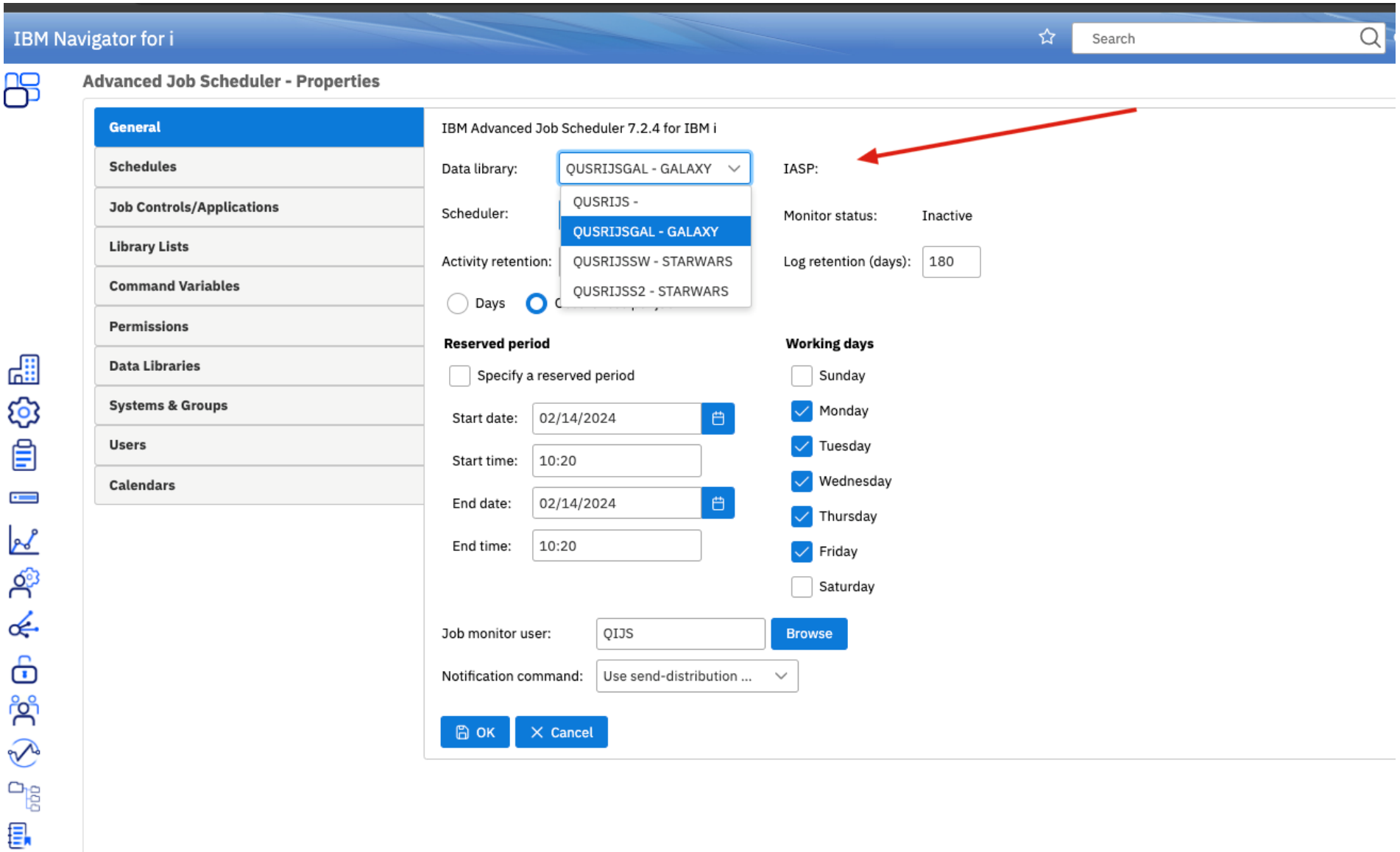
Advanced Job Scheduler – IASP Support



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What's New for RPG in Spring 2024

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New options for SND-MSG

PTFs for 7.4 and 7.5
- Spring 2024

New message types for SND-MSG

- *COMP - New
- *DIAG - New
- *ESCAPE
- *INFO
- *NOTIFY - New
- *STATUS - New

```
snd-msg *comp 'Order processed successfully';
```

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New options for SND-MSG

PTFs for 7.4 and 7.5
- Spring 2024

New targets for SND-MSG

- *CALLER
- *CTLBDY - New, send to the activation group boundary
- *EXT - New, send to the external message queue
- *SELF
- *PGMBDY - New, send to the program boundary

Send a message to the caller of the current program:

```
snd-msg *escape order_num + ' not found'
        %target(*pgmbdy : 1);
```

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New options for SND-MSG

PTFs for 7.4 and 7.5
- Spring 2024

A *STATUS message sent to *EXT displays at the bottom of the interactive screen.

```
for i = 1 to num;
   ...
   if %rem(i : 10) = 0; // Show a message after every 10
      snd-msg *status %char(i) + ' of ' + %char(num) + ' complete'
              %target(*ext);
   endif;
endfor;
```

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Constant standalone fields and data structures

PTFs for 7.4 and 7.5
- Spring 2024

The CONST keyword is supported for variables

A constant field cannot be modified by the program after it is initialized

For data structures, it is only supported for the entire data structure

- An individual subfield cannot be defined as constant

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Constant standalone fields and data structures

PTFs for 7.4 and 7.5
- Spring 2024

The "usrprf" subfield of the "defaults" data structure is initialized to the current user profile
It cannot be changed any further by any RPG statements

```
DCL-DS defaults QUALIFIED CONST;
   usrprf CHAR(10) INZ(*USER);
   branch VARCHAR(50) INZ('Main');
END-DS;
```

The "startTimestamp" field is initialized to the current timestamp when the procedure starts.
It cannot be changed any further by any RPG statements

```
DCL-S startTimestamp TIMESTAMP INZ(*SYS) CONST;
```

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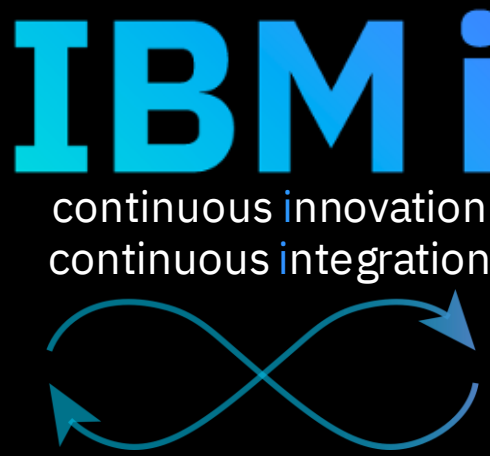
PowerHA enhancements



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PowerHA SystemMirror IBM i announced 04/11/23

Client Value	Capability being delivered.	Unique value
Non disruptive hardware upgrades and off-line backups when using multi-target Geographic Mirroring	Multi-target Geographic Mirroring on prem, hybrid, or cloud to cloud, up to 6 nodes for **PowerHA 7.5**	Example; customer can migrate to new pods in PowerVS non-disruptively, customer can detach a copy for off-line backup operations
Continuous availability of production data during resynchronization of a failed node	While one node is being synchronized the other nodes remain active in the HA/DR replication process	Maintain HA/DR cluster after a hard crash of one of the nodes in a multi-target Geographic Mirroring cluster
Non disruptive geographic mirroring configuration changes	Capability to change from synchronous mode to asynchronous mode without impacting the production workload	Continuous operations during a change in replication mode
Enable access to data on secondary nodes for diagnostics or for save operations	Enable detach of secondary volumes when network replication is suspended	Customer can access data on a secondary node whether network is down planned or unplanned
Simplified access to cluster health status detail via the new Graphical UI	UI will present diagnostic information without the user having to perform multiple steps	Integrated, simple health monitoring and information presentation via a modern graphical user interface

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PowerHA SystemMirror IBM i 4.12.2 & 5.6.2 announce 05/07/24

Client Value	Capability being delivered.	Unique value
PowerHA automatically detects asynchronous policy-based enabling the use of the same configuration and management commands.	PowerHA IBM i support for IBM FlashSystem asynchronous policy-based Replication	Automation
Ease of use enhancement requested by customers	Synchronization of resources when changes occur with adopted authority	Automation
Expands admin domain eliminating manual synchronization processes	Admin Domain synchronization of SNMPv3 attributes on printer device descriptions, including the SNMP username (SNMPUSR) and SNMP context name (SNMPCNTX) attributes	Automation
Eliminates a previously manual operations	Add multiple user profiles based on selection criteria, simplifies the ability to omit IBM profiles	Automation
Expanded cluster health monitoring	Additional SQL for retrieving PowerHA information programmatically including the ability to retrieve HyperSwap status	Ease of monitoring

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PowerHA SystemMirror IBM i 4.12.2 UI announce 05/07/24 continued

Client Value	Capability being delivered.	Unique value
Up and coming IT administrators will likely be using the UI verse CL	Cluster management via PowerHA GUI	Single pane of glass for PowerHA cluster monitoring and management
	Start and end cluster nodes	
	Administrative domain management, including: • Start and end administrative domains • Add and remove monitored resources	
	Manage switchable environments • Start and end cluster resource groups • Perform administrative switchovers and failovers • Manage replication sessions with the ability to suspend, resume, detach, and reattach replication	

IBM PowerHA SystemMirror for i

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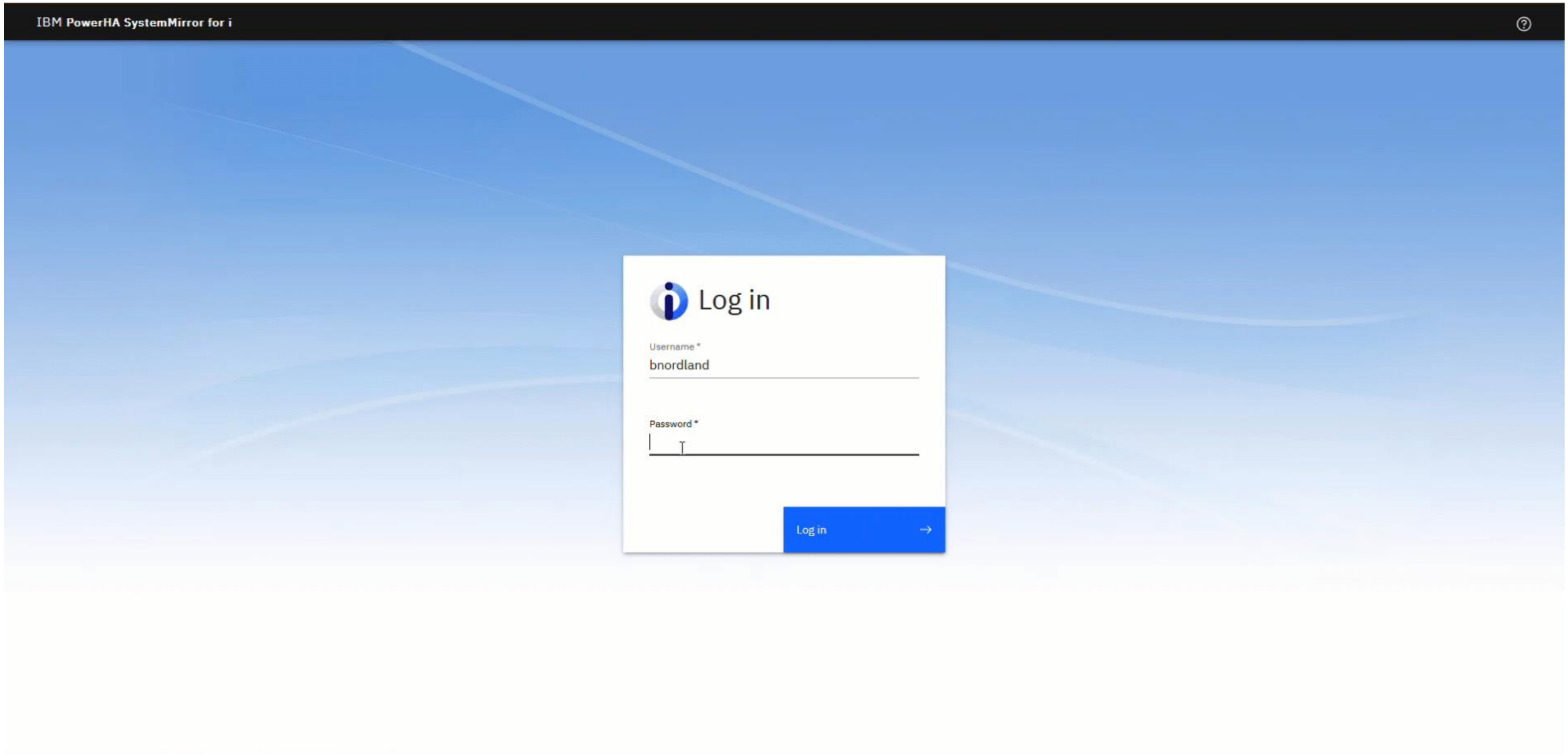
A quick look at the PowerHA for IBM i UI



https://www.youtube.com/watch?v=liH1LEXCIfs

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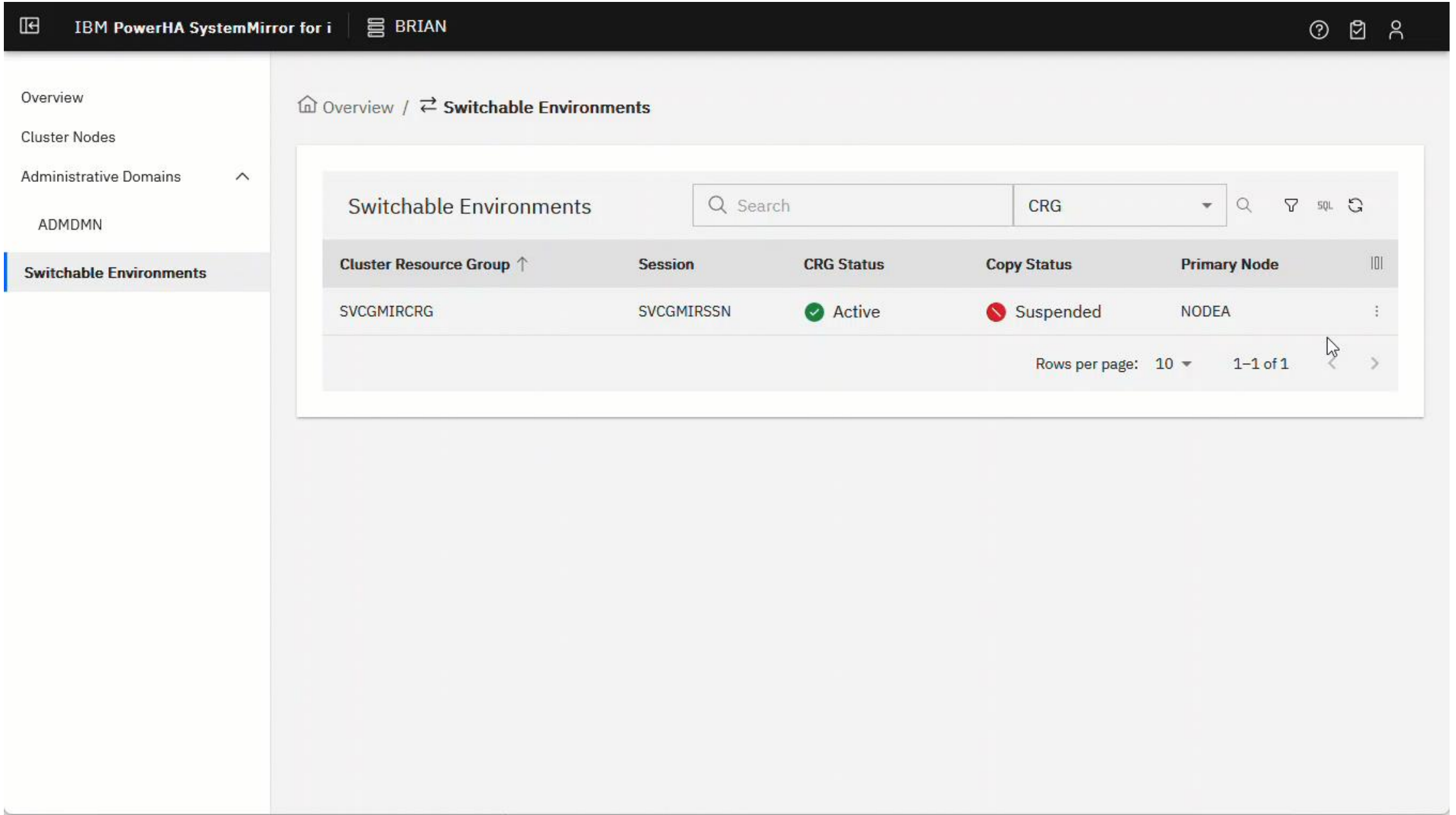
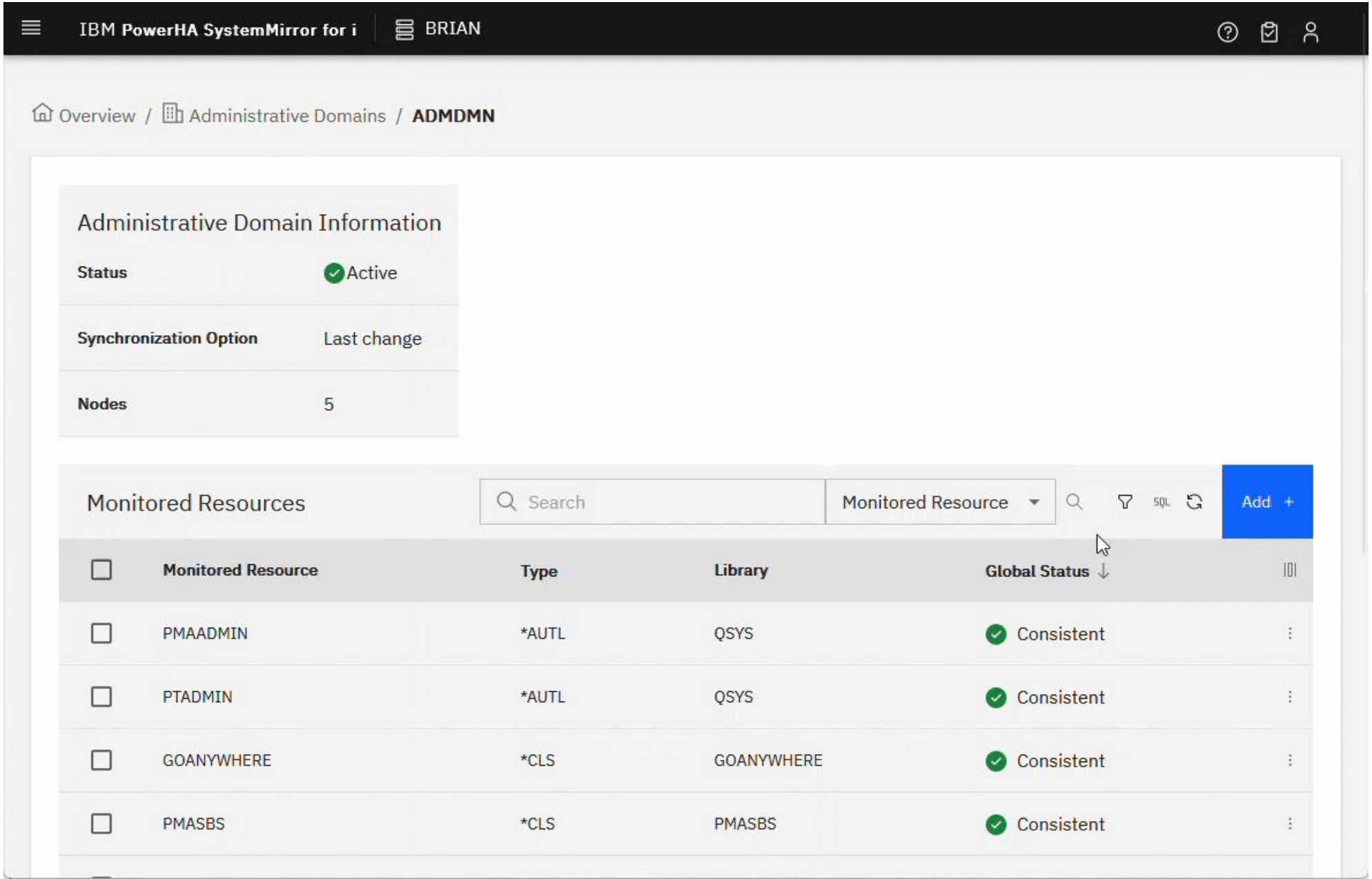
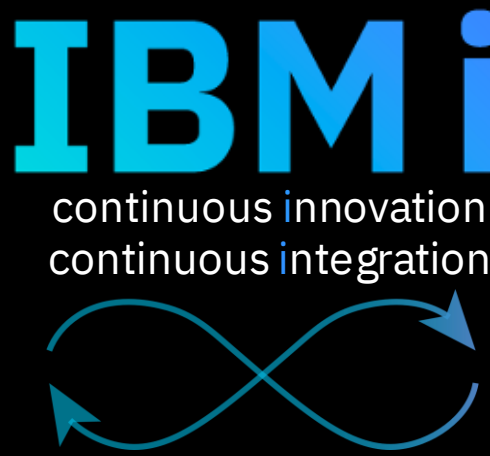
PowerHA Modern Web Interface



PowerHA SQL Services



BRMS enhancements



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BRMS Subscription Term [Announcement 1/09/2024](#) ; GA 1/26/2024

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	Non-expiring	Subscription Term
Backup, Recovery and Media Services (BRMS)	5770-BR1 BRMS SWMA is covered under IBM i group SWMA Per server, price based on tier Base feature required; Advanced & Network features optional **Price:** 0812 P05 OTC base - $1,060 0813 P10 OTC base - $2,120 0815 P20 OTC base - $6,360 0818 P30 OTC base - $12,720 0861 P05 Advanced - $382 0862 P10 Advanced - $763 0863 P20 Advanced - $2,290 0864 P30 Advanced - $4,579 0898 Network feature - $954/system	5770-BR2 License & SWMA combined Per core: One price regardless of tier 90 day or 1/2/3/4/5-year terms Consolidate Base & Advanced & Network features – all are provided on one order **Price:** Price/core: $400/core/year (in addition, buying one-year term has 15% premium) IBM i 7.4 or 7.5

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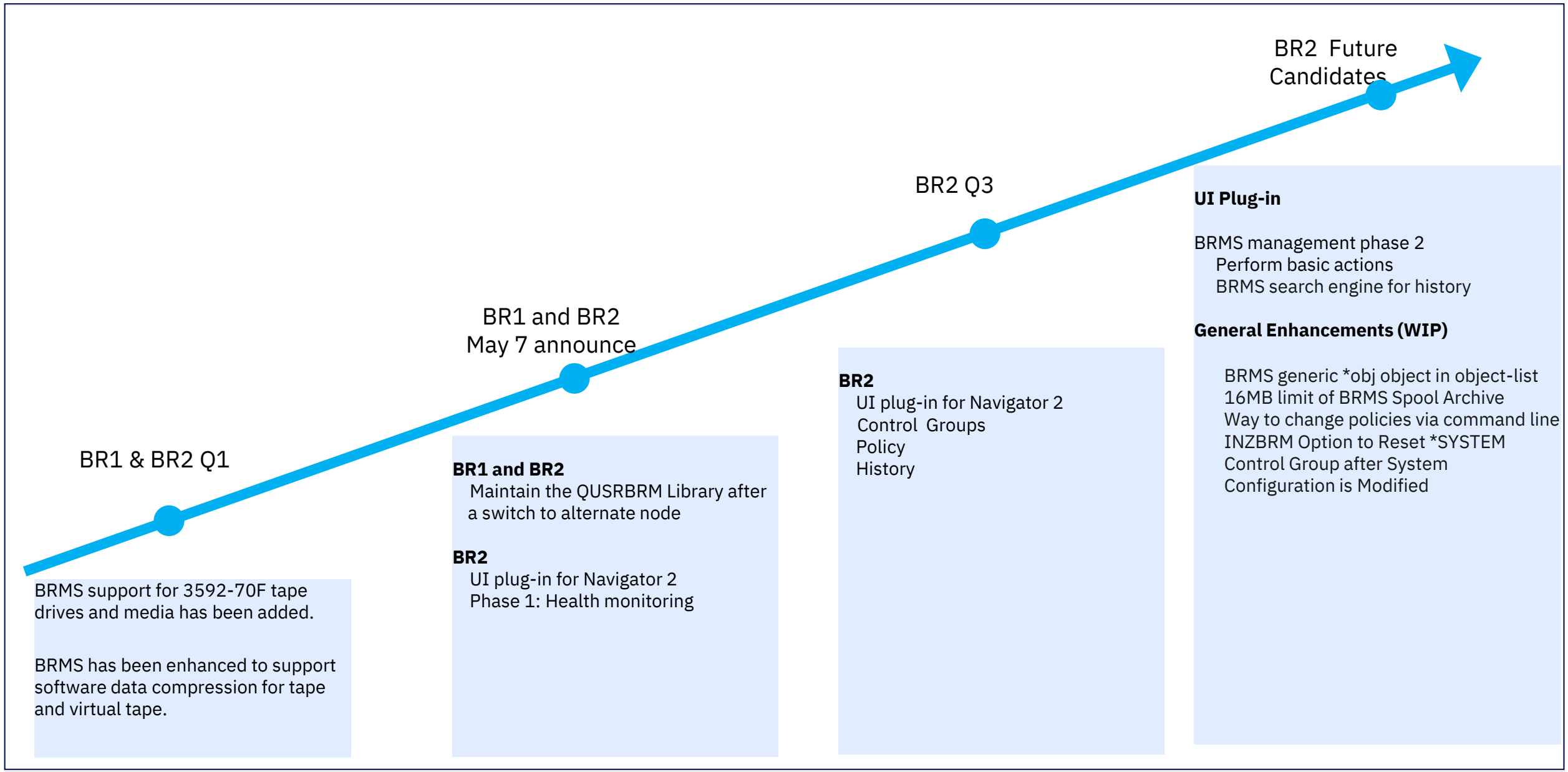
BRMS Roadmap



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For more information:

IBM PowerHA System Mirror	https://www.ibm.com/products/powerha
Introduction to PowerHA – IBM Developer	https://developer.ibm.com/articles/au-powerhaintro/
IBM PowerHA System Mirror for i wiki	https://helpsystemswiki.atlassian.net/wiki/spaces/IWT/pages/163577866/Welcome+to+PowerHA+SystemMirror+for+i
BRMS wiki	https://helpsystemswiki.atlassian.net/wiki/spaces/IWT/pages/165642461/Welcome+to+IBM+Backup+Recovery+Media+Services+BRMS+for+i
Linkedin PowerHA for AIX	https://www.linkedin.com/groups/8413388/

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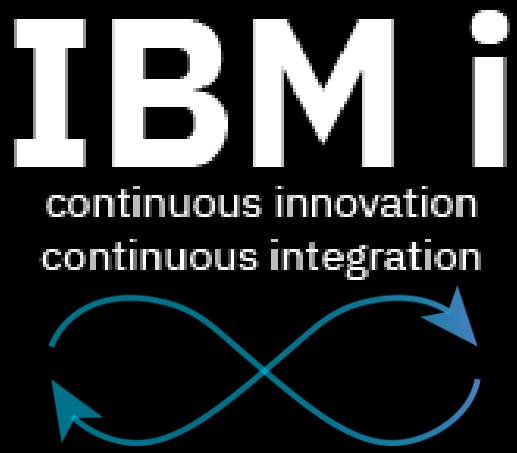
IBM Cryptographic Hardware Initialization and Maintenance (CHIM)



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IBM Cryptographic Hardware Initialization and Maintenance (CHIM)

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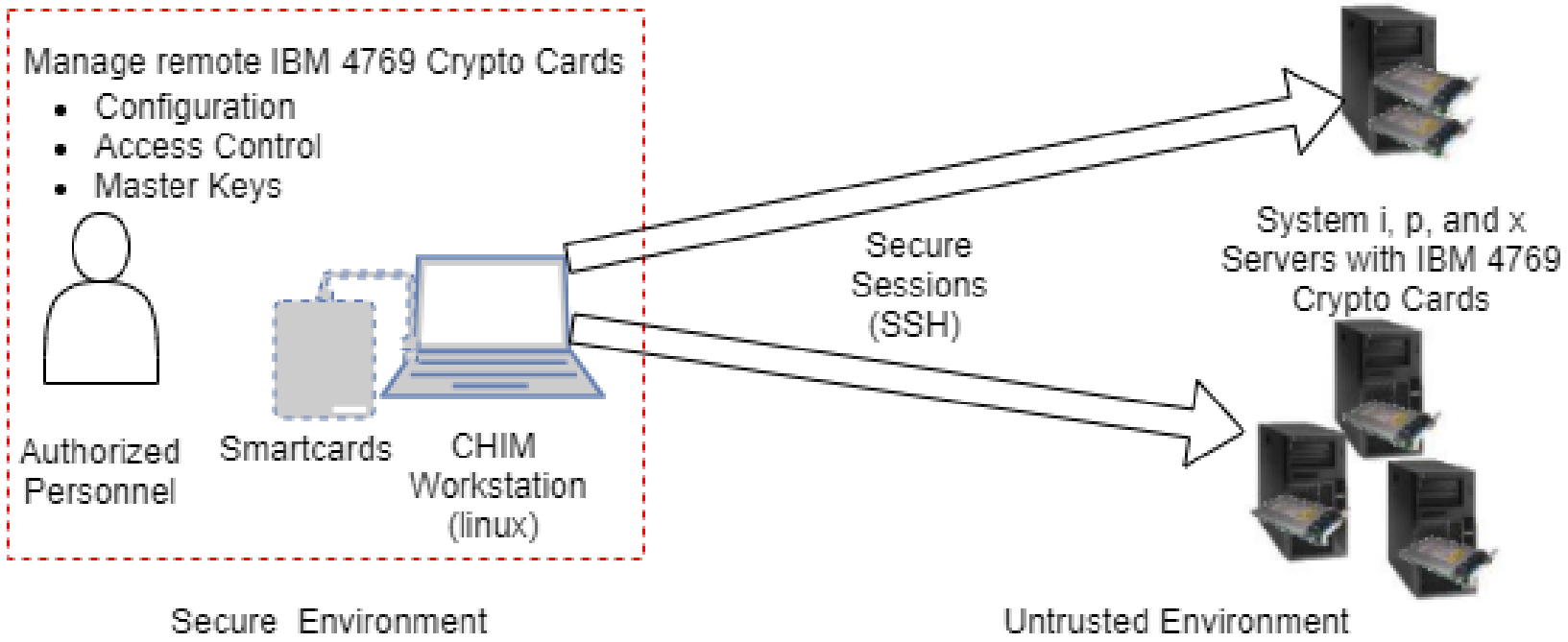
CHIM is PCI-compliant interface to configure the IBM 4769 Cryptographic Coprocessor

The CHIM workstation connects via secure sessions to the cryptographic coprocessors to let authorized personnel perform the following tasks:

- View coprocessor status
- View and manage coprocessor configuration
- Manage coprocessor access control (user roles and profiles)
- Generate and load coprocessor master keys
- Create and load operational key parts



With CHIM you can from a central trusted location securely manage remote IBM PCIe Cryptographic Coprocessors located in IBM i Power Systems in a hostile environment. Management tasks are done using a specialized workstation, the CHIM workstation. CHIM uses smart cards for profile authentication and storage of coprocessor master key parts.

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IBM Cryptographic Hardware Initialization and Maintenance (CHIM)

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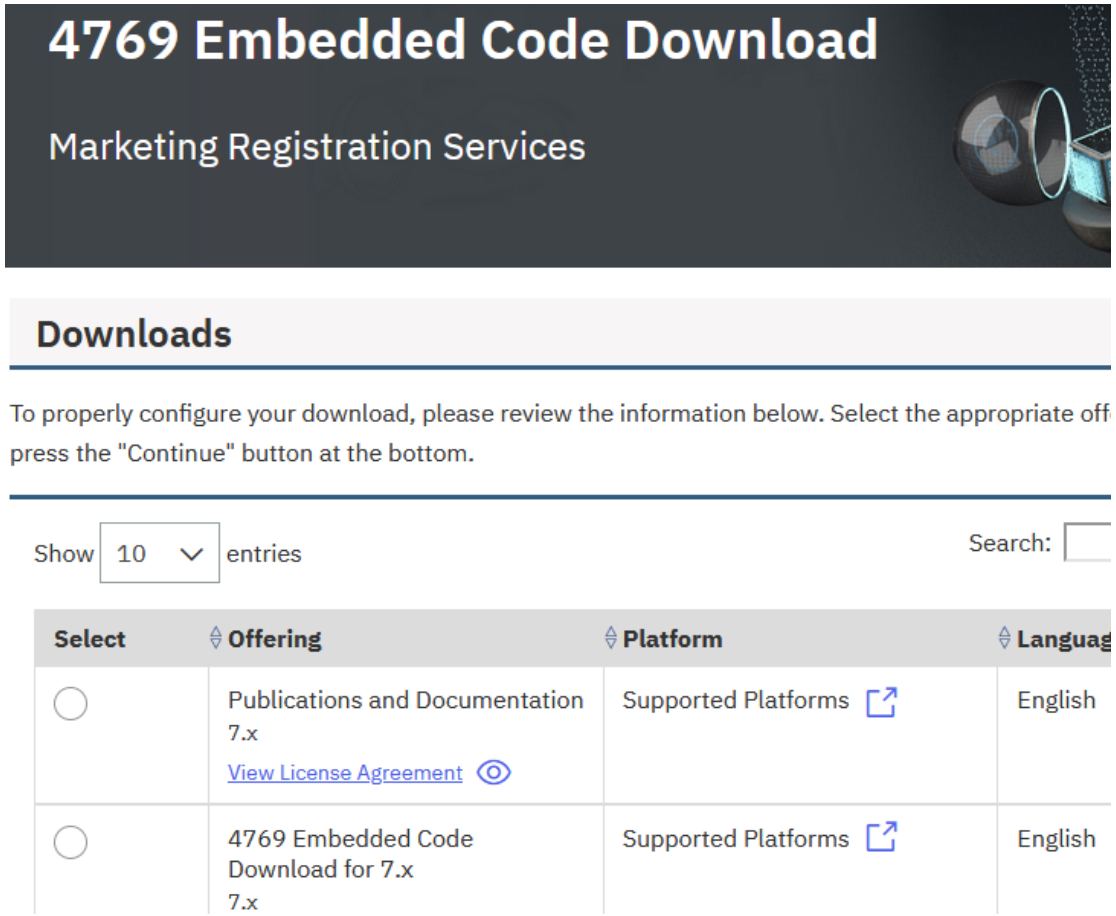
IBM i CHIM "Catcher"

- IBM i Common Cryptographic Architecture Cryptographic Service Provider (CCA CSP), delivered as IBM i Option 35, will include the support for IBM Cryptographic Hardware Initialization and Maintenance (CHIM) Catcher. This support is provided with IBM i PTFs, which will be available by June 15th, 2024.

CHIM Workstation Client

- Download the CCA Linux install media from [4769 Embedded Code Download - 4769 Embedded Code Download for 7.x] https://www.ibm.com/resources/mrs/assets/packageList?source=4769ecdl&lang=en_US



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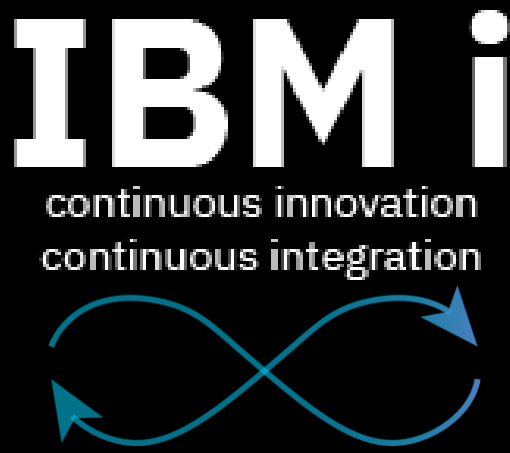
IBM i Conversion

IBM i Product Management
Douglas Gibbs - douglasg@ca.ibm.com
Dan Sundt – dansundt@us.ibm.com
Linda Hirsch – llhirsch@us.ibm.com



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Announcement April 2: Conversion Pricing

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IBM i Licensing Options as of May 7, 2024

Effective May 7, 2024, clients who acquire new specific IBM Power10 processor-based servers at IBM i P05 and P10 software tiers will have the following IBM i Licensing options:

- Acquire or renew IBM i Subscription Term licenses, or
- Convert IBM i non-expiring licenses to IBM i Subscription Term license at a lower-priced subscription term option.
  - Active SWMA on the donor is required.
  - Transfer of IBM i non-expiring licenses is not supported.
  - Conversion pricing applies for 3-year, 4-year, 5-year Subscription Terms.

April 2 prices announced

The specific IBM Power10 processor-based servers at IBM i P05 and P10 software are:

- IBM Power S1014 (9105-41B) 4-core processor (P05 software tier)
- IBM Power S1014 (9105-41B) 8-core processor (P10 software tier)
- IBM Power S1022 (9105-22A) (P10 software tier)
- IBM Power S1022s (9105-22B) (P10 software tier

April 2, 2024 announcement: Conversion pricing is announced

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P05 Subscription & Conversion Updates

IBM i
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- Offer a one-time Unlimited Users conversion offering to deliver investment protection for clients
  - Conversion pricing applies when acquiring 3, 4, or 5 year terms
- Offering updates:
  - Simplified user options to 10 User packs (from 5 User packs previously)
  - Lowered the Unlimited Users price to align with 50 users from 75 users
  - Clients purchasing P05 Unlimited Users will realize 10-40% savings
- Clients buying new subscriptions will see lower prices on 3-year subscription purchase.
  - Active SWMA on the donor is required.
- Conversion offering results in only a 14% price increase ($1438) for 3 years; 36% increase ($5280) for 5-year purchase

Feature	Non-Expiring	Subscription	Conversion 3/4/5 years
IBM i OS processor license per core	$3,315	$2,356	No change in price
Users	(5 users) $1,590	(10 users) $800	No change in price
Unlimited Users	$23,850	$4,000 (price effective May 7*)	$1,600

Notes:
- USD list prices shown

*IBM's plans can change without notice.

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P10 Subscription & Conversion Updates

IBM i
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- Offer a one-time conversion offering to deliver investment protection for clients
  - Conversion applies when acquiring 3, 4, or 5 year terms
- Offering Updates:
  - Conversion offering delivers core pricing of $7140
  - 10 user price of $100
  - Unlimited Users at $2000
- Conversion provides customers with significant investment protection compared to subscription
- Clients buying new subscriptions will see lower prices on 3-year subscription purchase.
  - Active SWMA on the donor is required.

Feature	Non-Expiring	Subscription	Conversion 3/4/5 years
IBM i OS processor license per core	$15,895	$8,925	$7,140
Users (blocks of 10)	$3,180	$800	$100
Unlimited Users	$63,600	$16,000	$2,000

Notes:
- USD list prices shown

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IBM i Transformation FAQ

Refer to IBM i Transformation FAQ (on IBM i License Topics): this document will continually be updated.

Changes to any policies or plans will be announced in an IBM announcement letter and then updated in the IBM i Transformation FAQ .

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Pricing Announcements

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- Announce April 2, 2024, Worldwide: IBM i Subscription conversion pricing
  - Effective date: April 2

- Announce April 2, 2024, for Europe: decrease prices for IBM i Subscription
  - Effective date: April 9

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IBM Power S1012 (9028-21B)

Daniel Goldener - Daniel.Goldener@ibm.com
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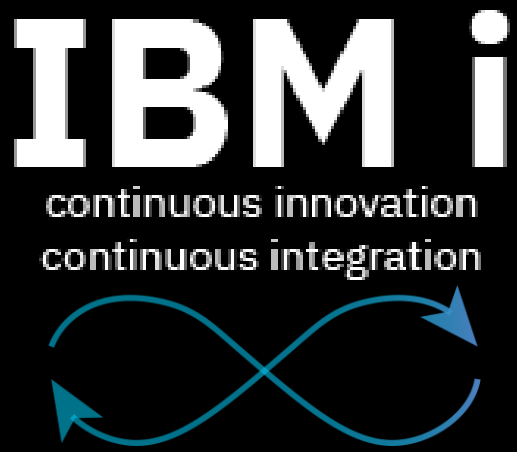
Douglas Gibbs - douglasg@ca.ibm.com
IBM i Product Manger, Program Director



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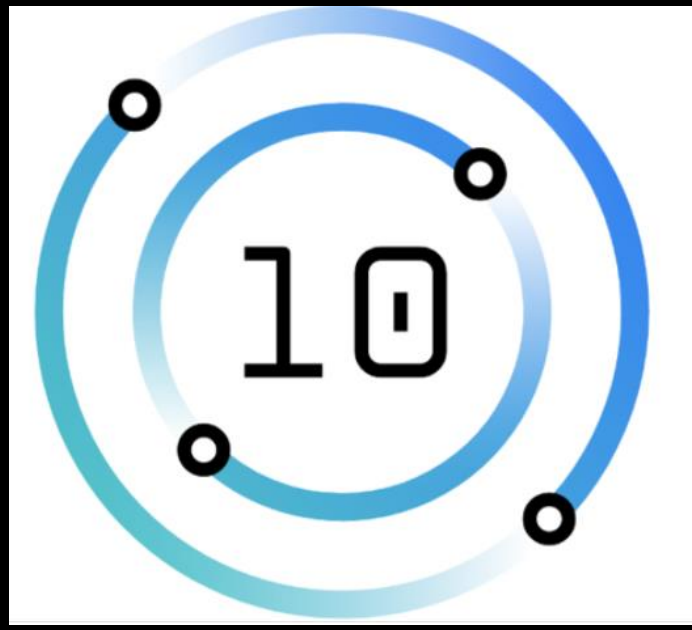
IBM Power S1012 (9028-21B)

https://newsroom.ibm.com/Blog-New-IBM-Power-server-extends-AI-workloads-from-core-to-cloud-to-edge-for-added-business-value-across-industries



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Delivering Cloud-to-Edge Excellence on Scale-Out Systems

Edge Computing

- Up to 8 cores and 256 GB memory footprints
- Reduced IT footprint
- Fully active, static servers

Mainstream Computing

- Up to 16 cores and 2TB memory footprints
- Up to 32% perf/price increase vs. P9
- Fully active, static servers
- Lower technical requirements and competitive deals

Core Computing

- Up to 48 cores and 8TB memory footprints
- Up to 1.4x system performance vs. P9
- Dynamic Capacity consumption with CUoD and PEP2.0
- Value-driven solutions and higher technical standards

Cloud Computing

- Unlimited cores and memory
- Dynamic Capacity
- Computing aaS

S1012

9028-21B

- 1-socket, 2U, half-wide
- Up to 8 cores per system
- 1, 4, 8 SMT8 cores/socket
- 4 ISDIMM slots
- 256 GB memory
- 4 PCIe HHHL slots (All Gen5)
- 4 NVMe U.2 bays
- Max of 6.4 TB of internal storage
- Optional Internal RDX Media Bay
- Rack and Tower form factors

S1014

9105-41B

- 1-socket, 4U
- Up to 24 cores per system
- 4, 8, 24 SMT8 cores/socket
- 8 DDIMM slots
- 1 TB memory
- 5 PCIe FHHL slots (4 Gen5)
- 16 NVMe U.2 bays
- Max of 102.4 TB of internal storage
- Optional Internal RDX Media Bay
- Rack and Tower form factors

S1022s

9105-22B

- 1,2-socket, 2U
- Up to 16 cores per system
- 4, 8 SMT8 cores/socket
- 16 DDIMM slots
- 2 TB memory
- 10 PCIe HHHL slots (8 Gen5)
- 8 NVMe U.2 bays
- Max of 51.2 TB of internal storage

S1022 & L1022

9105-22A / 9786-22H

- 1,2-socket, 2U
- Up to 40 cores per system
- 12, 16, 20 SMT8 cores/socket
- 32 DDIMM slots
- 4 TB memory
- 10 PCIe HHHL slots (8 Gen5)
- 8 NVMe U.2 bays
- Max of 51.2 TB of internal storage
- L1022: max 25% of cores with other OS

S1024 & L1024

9105-42A / 9786-42H

- 1,2-socket, 4U
- Up to 48 cores per system
- 12, 16, 24 SMT8 cores/socket
- 32 DDIMM slots
- 8 TB memory
- 10 PCIe FHHL slots (8 Gen5)
- 16 U.2 NVMe bays
- Max of 102.4 TB of internal storage
- Optional Internal RDX Media Bay
- L1024: max 25% of cores with other OS

PowerVS

- Delivered aaS off-premise
- Unlimited cores
- Unlimited memory
- Unlimited storage and I/O
- Add-on backup services including VTL

AIX IBM i Linux Red Hat OpenShift

All PowerVM based servers

IBM Power S1012 1-Pager

- **P10 eSCM Feature**
  - 1x 8 BC (Rack only)
  - 1x 4 BC
  - 1x 1 BC (IBM i only)
  - Max socket power 240W
- **OMI Memory with DDR4 ISDIMMs**
  - 4 OCMB+ 4 ISDIMMs
  - 16GB, 32GB, 64GB, 102 GB/s peak
  - Max 256 GB capacity
- **Internal Storage**
  - 4x NVMe Slots
    - 0.8 TB, 1.6 TB NVMe 15mm U.2
  - Max 18W
  - 6.4 TB capacity max
  - Optional RDX
- **PCIe HHHL Slots**
  - 2 PCIe G5 x8 / G4 x16 direct
  - 2 PCIe G5 x8 direct
- **Form factor**
  - Half-wide 2U rack
  - 26” system depth
  - Includes desk-side
- **Rack Shippable option**

MTM 9028-21B
GA June 2024

Rack and Desk-Side

No Disk Drawer
No support for IO Drawer

AIX and VIOS
- AIX73D+: AIX Version 7.3 with the 7300-01 Technology Level and Service Pack 2 (P10 mode)
- AIX72Z: AIX Version 7.2 with the 7200-05 Technology Level and Service Pack 8 (P9-compat mode)
- VIOS 4.1.0.20
- VIOS 3.1.4.40 (P9 mode)

IBM i
- IBM i 7.4 TR10
- IBM i 7.5 TR4

Linux
- RHEL 9.2

- **OS**
  - IBM i
    - 1 core is native only
    - 4 & 8 core are native or virtual client
  - AIX
  - Linux
- **Hypervisor**
  - PowerVM
- **RAS**
  - Concurrent maintenance on NVMe
  - No concurrent maintenance on PCIe adapters
  - Redundant cooling, concurrent maintenance supported
  - Redundant power, concurrent maintenance supported
    - (1+1) 800W CRPS PS, 110 or 220 VAC
  - Customer setup, install & repair
- **Energy Efficiency**
  - 80+ Titanium Power Supply Compliant
  - EPA Energy Star Compliant
  - Built-in Advanced Thermal & Power Management
- **Enterprise BMC**
  - Op-panel (Base), LCD op-panel (Featured)
  - 1 1GbE, 1 USB/UPS 2.0 (all rear)
- **Host I/O**
  - 2 USB 3.0 (front, internal for RDX)
- **System Management (optional)**
  - HMC/vHMC (not redundant), Novalink, PowerVC (rack only)
- **Certifications**
  - FCC: Class A
  - Acoustics: General Business Category 2E for Desk Side and Data Center Category 1B for Rack
  - Environment: ASHRAE A3
    - 5-40C, 8-85% RH, 3050m max

New eBMC ASMI Functions

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1. **Easier set-up**
   - No need to access and use a physical control panel to perform the most common configuration operations
   - Select Alternate restart device
   - Select Load source device
   - Select Console adapter slot
   - No need to access and use a physical control panel to access a Dedicated Service Tools (DST) screen

2. **More “install” and IPL use cases are supported without requiring HMC**
   - FC tape D-mode IPL and install – just tag the adapter
   - Install from a network image
   - Install from iSCSI

3. **Improved remote management for IBM i partitions without HMC**
   - Access DST without pressing buttons on the control panel
   - Initiate a Mainstore Dump
   - Display debug SRCs for error situations

4. **All IBM i supported releases for S1012 can use the new eBMC ASMI functions**
   - No IBM i PTFs are needed for these new functions – just FW1060

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Contrast – Why Would Customer Still Want HMC?

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HMC provides same values that are new in eBMC ASMI:

- Easy configuration
- The additional install and IPL use cases
- Improved remote management

BUT… HMC also provides:

- Ability to configure and run multiple partitions, with or without VIOS
- Remote power on of the system
- Shared remote console
- Guidance through concurrent maintenance operations
- Performance metrics
- And more…

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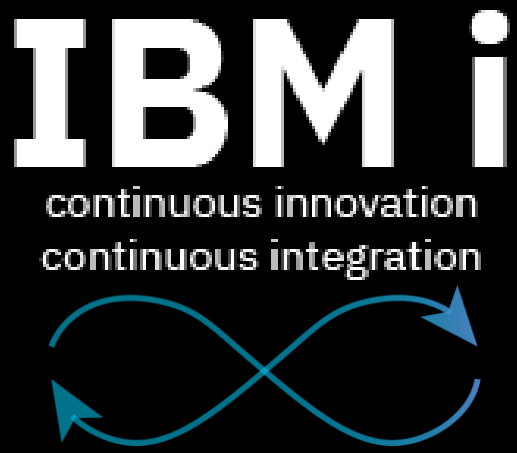
Withdrawals

Douglas Gibbs - douglasg@ca.ibm.com
IBM i Product Manger, Program Director

Linda Hirsch - llhirsch@us.ibm.com
IBM i Product Manger, IBM i Licensing/Terms and Conditions



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Withdrawals

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Announce May 7
Effective EOS April 30, 2025 (with the exception of Merlin V1)

Merlin V1 – effective EOS 9/30/2024

Rational Developer for i V9.6

IBM i components - primarily outdated technology. Withdraw from Service for 7.5 and earlier releases:

- Bootstrap Protocol (BOOTP) server
- Native Dynamic Host Configuration Protocol (DHCP) server
- Remote Authentication Dial In User Service (RADIUS)
- Domain Name System (DNS) Serve
- Route Daemon (RouteD)
- Virtual Private Network (VPN) protocol Internet Key Exchange version 1 (IKEv1)
- IP Payload Compression Protocol (IPCOMP)
- Quality of Service (QoS) Server
- FRCA (Fast Response Cache Accelerator) for HTTP Server
- Performance Tools outdated functions: Performance Graphics and Performance Advisor
- Graphical Data Display Manager (GDDM)
- OptiConnect

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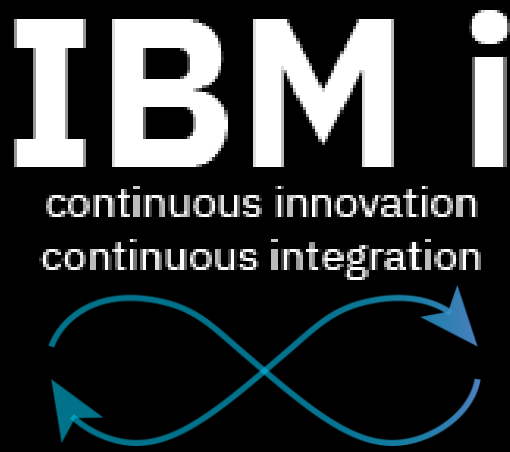
Upcoming Events



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COMMON Annual Conference – POWERUp2024

Fort Worth, Texas

May 20-23

IBM i Education

COMMON Europe

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June 03-06
Milano, Italy
IBM i, AIX and Hardware tracks

Many IBM and industry speakers will be there

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Upcoming Events - 2024

Events	Venue	Dates
COMMON PowerUp 2024	Fort Worth, TX	May 20-23
COMMON Europe	Milano, Italy	June 3-6
COMMON Navigate 2024	Bonita Springs, FL	Sept 16-18
IBM TechXchange	Las Vegas, NV	October 21-24
COMMON Navigate 2024	Toronto, Canada	November 4 - 6

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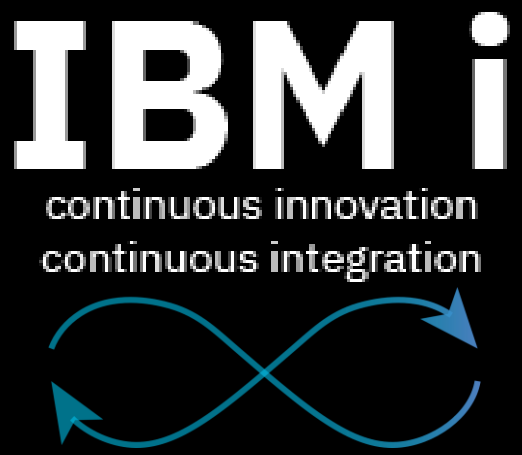
IBM i Resources

IBM i Team



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FORTRA™

WEBINAR

2024 IBM i Marketplace Survey Results Revealed

Wednesday, January 24, 2024
9:00am CST

REGISTER NOW

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https://www.fortra.com/resources/videos/2024-ibm-i-marketplace-survey-results-revealed

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For more information

IBM Sites:

IBM i Home Page	https://www.ibm.com/it-infrastructure/power/os/ibm-i
IBM Strategy Whitepaper	https://www.ibm.com/it-infrastructure/us-en/resources/power/i-strategy-roadmap/
IBM Client Success	https://www.ibm.com/it-infrastructure/us-en/resources/power/ibm-i-customer-stories/
Support Life Cycle	https://www.ibm.com/support/lifecycle/
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For more information

Events:

IBM i Guided Tours registration	https://ibm.webex.com/webappng/sites/ibm/webinar/webinarSeries/register/b5896475d7f74f5fbbb1f270b42916b9
IBM i Guided Tours 2023 box	https://ibm.box.com/v/IBM-i-Guided-Tours-2023-REPLAY
IBM TechXchange Conference	https://www.ibm.com/community/ibm-techxchange-conference/
COMMON North America PowerUP 2024	https://www.common.org/powerup2024/home
COMMON Europe Congress (CEC) 2024	https://comeur.org/common-europe-congress-2024-2/

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For more information

Marketplace:

Forrester TEI Study	https://www.ibm.com/downloads/cas/1ZLRK39P
Steve Will's blog	https://techchannel.com/SMB/you-and-i-blog
Forta 2024 Marketplace Survey	https://www.fortra.com/resources/guides/ibm-i-marketplace-survey-results
IBM iSee Video Blog	https://learn.common.org/products/ibm-isee-video-blog

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For more information:

Blogs to follow

- TechChannel You and i (Steve Will)
- TechChanneli-Can (Dawn May)
- TechChannel: iTalk with Tuohy
- TechChannel: OpenYour i with Jesse Gorzinski
- IBM Db2 for i (Kent Milligian)
- IBM i Analyitics Blog (Jon Westcott Jr)
- iSee with Scott and Tim

More to follow

@IBMservers
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@LinuxIBMMag
@OpenPOWERorg
@ITJungleNews
@SAPonIBMi
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Hashtags to Use

#IBMPower
#IBMi
#IBMAIX
#Power10
#LinuxonPower
#HANAonPower
#ITinfrastructure
#OpenSource
#HybridCloud

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IBM i License Topics

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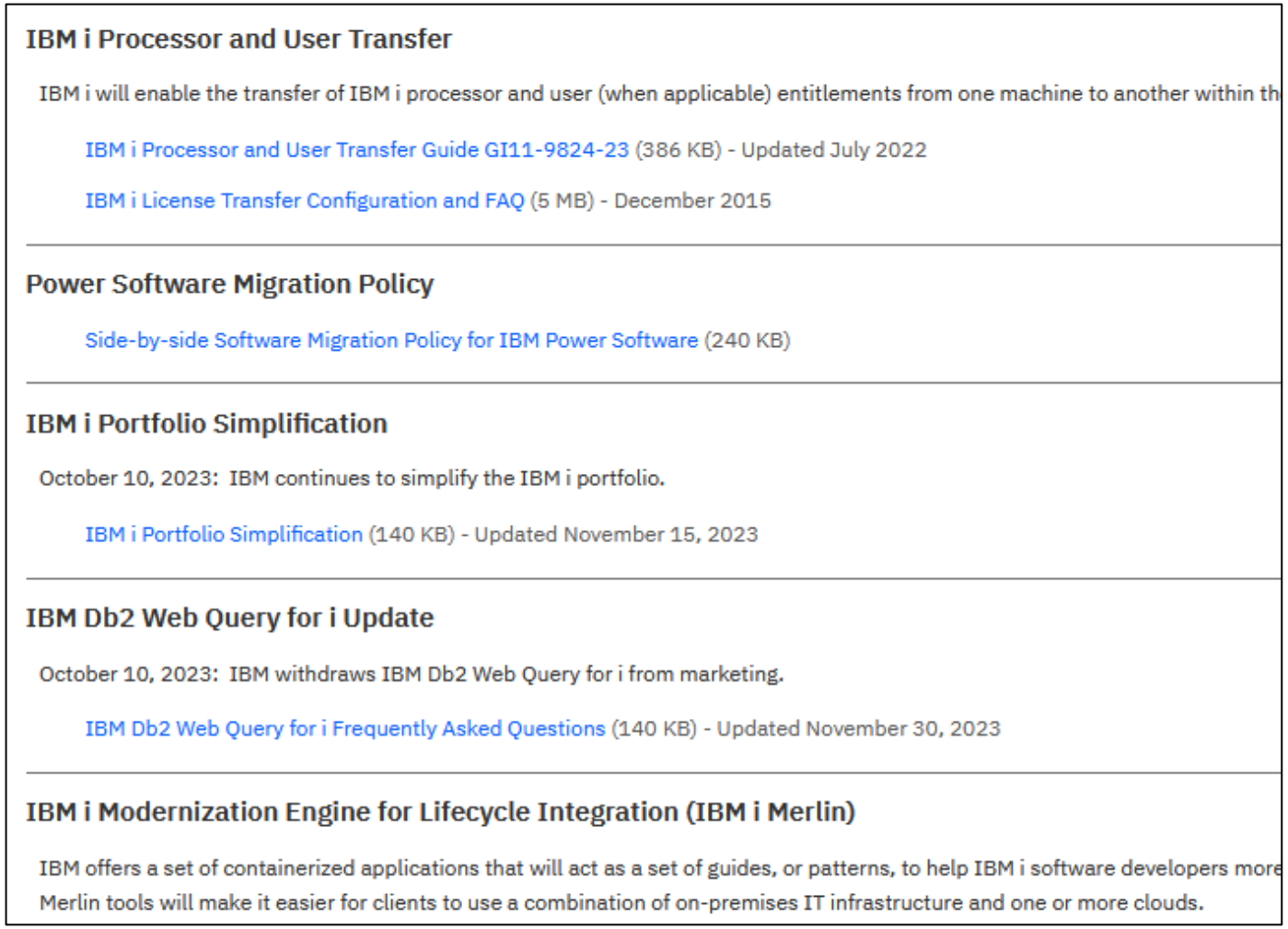
https://www.ibm.com/support/pages/ibm-i-license-topics



IBM i Processor and User Transfer

IBM i will enable the transfer of IBM i processor and user (when applicable) entitlements from one machine to another within th

IBM i Processor and User Transfer Guide GI11-9824-23 (386 KB) - Updated July 2022

IBM i License Transfer Configuration and FAQ (5 MB) - December 2015

Power Software Migration Policy

Side-by-side Software Migration Policy for IBM Power Software (240 KB)

IBM i Portfolio Simplification

October 10, 2023: IBM continues to simplify the IBM i portfolio.

IBM i Portfolio Simplification (140 KB) - Updated November 15, 2023

IBM Db2 Web Query for i Update

October 10, 2023: IBM withdraws IBM Db2 Web Query for i from marketing.

IBM Db2 Web Query for i Frequently Asked Questions (140 KB) - Updated November 30, 2023

IBM i Modernization Engine for Lifecycle Integration (IBM i Merlin)

IBM offers a set of containerized applications that will act as a set of guides, or patterns, to help IBM i software developers more
Merlin tools will make it easier for clients to use a combination of on-premises IT infrastructure and one or more clouds.

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