

ISV Product Watch

Phil Grainger – BMC Software Ltd
Emil Kotrc & David Helsley – Broadcom
Karen Wilkins - IBM

November 2019
Session IK



- Driving Business Agility

AMI DevOps for Db2

Modern Mainframe DevOps

Schema Changes

App Developer

Database Admin

Database Admin

Database Admin

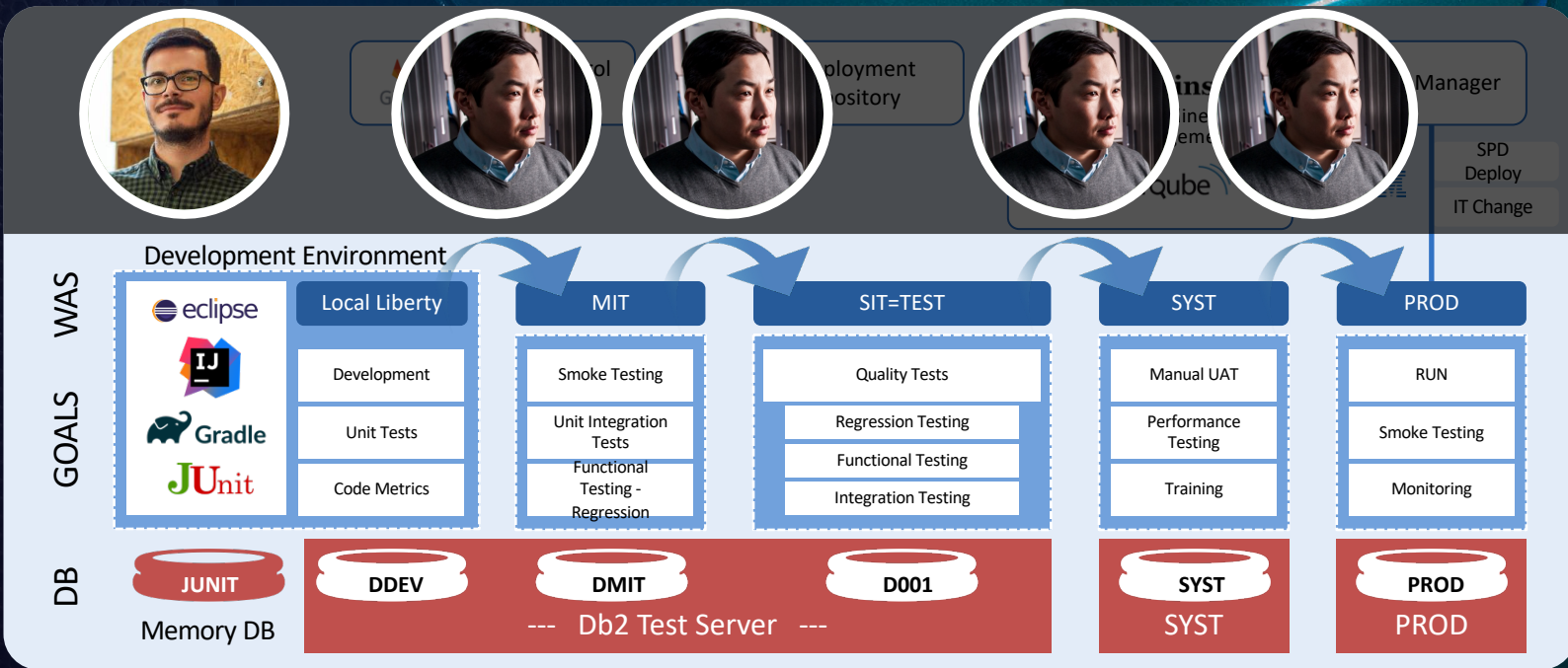
Database Admin

TEAM




JIRA

- Work Item A
- Work Item B
- Work Item C



Test Case Management | Test Automation/ Manual Suite | Test Data Management



Different Goals Different Priorities

IT Manager / Director of Mainframe Technology

- Agile
- Rapid Changes
- Little or no mainframe experience

App Developer



- Stability/Reliability
- Availability
- Extreme Mainframe/Db2 Experience

Database Admin

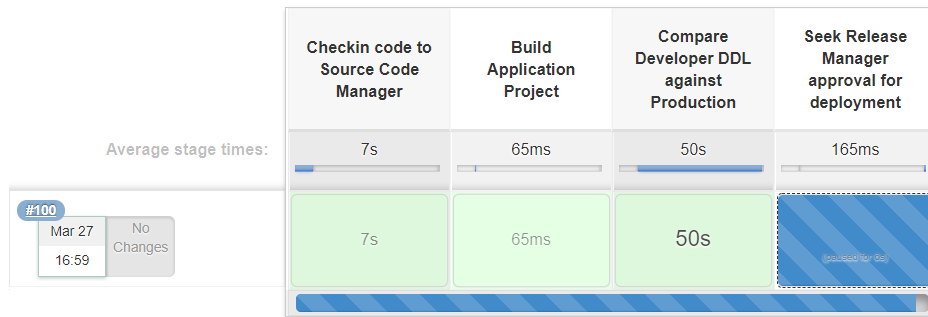


- Pressure from Business that your team is slowing us down
- Must have agility project on the mainframe for continued funding
- Tired of being the focus of Executive Ire
- What made the mainframe successful is now hindering the business
- New development choosing to use other platforms

Pipeline Schema Change Pipeline

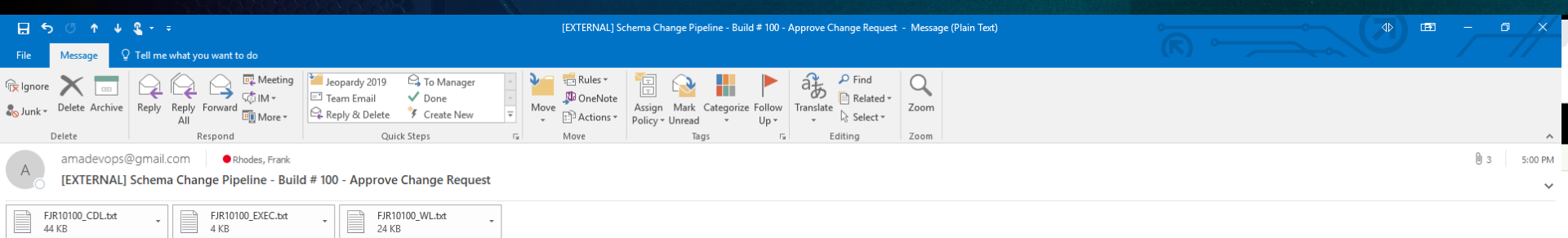


Stage View



Permalinks

- [Last build \(#100\), 32 ms ago](#)



Please review the changed requested by the developer related to the schema definition of the application.
See attached Impact Report and CDL files.

You can generate a Compare report using the CDL generated.

RDAFJR.DEVOPS.CDL(FJR10100)

<http://db2a.bmc.com:21210/workbench/index.html>

You can approve or reject implementation of changes on Subsystem $\${SSID}$ by using this link:

https://urldefense.proofpoint.com/v2/url?u=http-3A_localhost-3A8080_job_Schema-2520Change-2520Pipeline_100_console&d=DwICaQ&c=UrUhmHsiTVT5qkaA4d_oScamb9hmamiCDMzBAEWc7E&r=uPRNA26SHjAWYPADNGC_0w&m=y78H3gQBySjhhCwkSPFh2BsJYfy-o2kA_G_dkfgEAPE&s=9si20zd4dlymfyBhSBnhJRVRAzyO6wiEkRCJG6vaC_Y&e=

Workspace Manager

- Australie Demo
- Franks Daily
- Schema Compare for Frank*

Schema Compare for Frank*

DB2 Navigator | File Locator | Job Browser | Performance

Schema Management | Recovery Management | Scratchpad | Product Tools

- Schema Compare
 - Fallback Changes
 - Deploy Changes

Deploy Changes

General | Comparison Data Set | Options | Reports

Report Generated: 2019-04-04-08.12.02.S10869

Overview by Statement Type

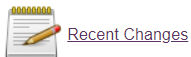
Summary by Statement Type

Statement Type	Count
CREATE	31
ALTER	65
DROP	0

Object Type Breakdown for CREATE

Object Type	Count	Percentage
Table Spaces	9	29%
Other 1	11	35%
Other 2	9	29%
Other 3	12	39%

Pipeline Schema Change Pipeline



Stage View

Average stage times:
(Average full run time: ~3min 0s)

Checkin code to Source Code Manager	Build Application Project	Compare Developer DDL against Production	Seek Release Manager approval for deployment	Implement Schema changes	Deploy updated Application	Cleanup
7s	65ms	50s	219ms	23s	66ms	58ms
7s	65ms	50s	219ms <small>(paused for 1min 37s)</small>	23s	66ms	58ms

#100 Mar 27 16:59 No Changes

Permalinks

- [Last build \(#100\), 32 ms ago](#)

AMI DevOps for Db2

TEAM

JIRA

- Work Item A
- Work Item B
- Work Item C

App Developer



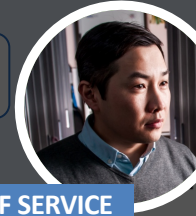
Database Admin



Database Admin



Database Admin

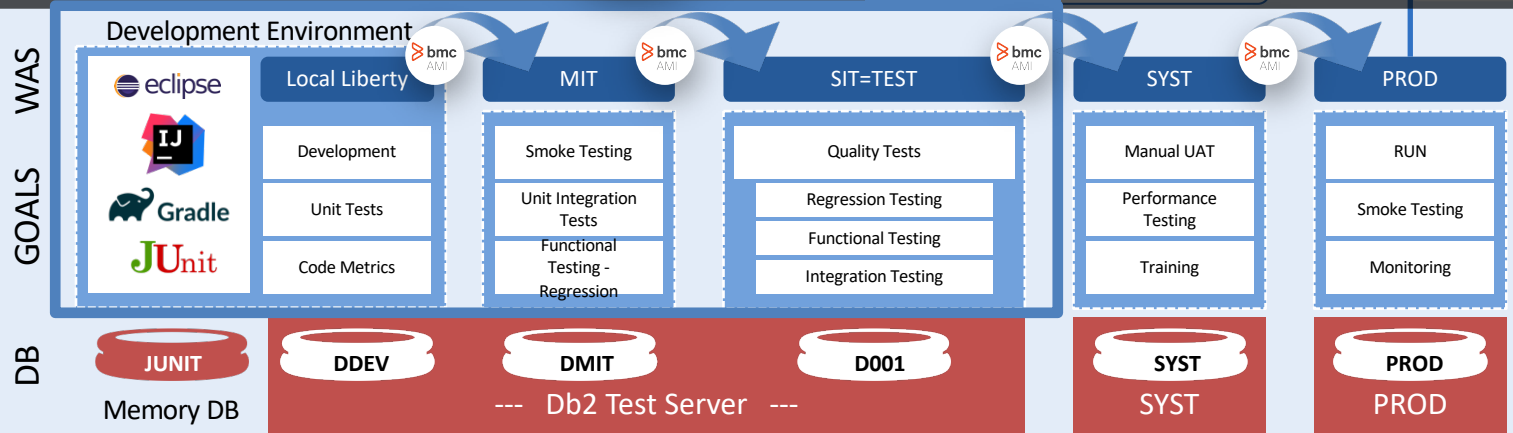


Database Admin



Production Approval

SELF SERVICE



Test Case Management | Test Automation/Manual Suite | Test Data Management



COLRUYT GROUP

"It helps us react to market evolutions faster."

"With AMI DevOps for Db2 we are working as a unified team now."

- Steven Goedertier DBA, Colruyt



Agility

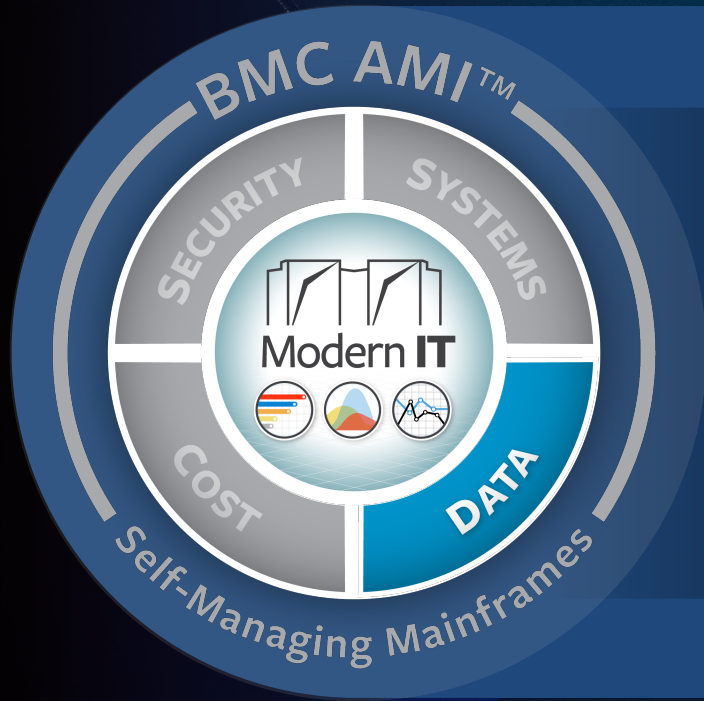
Added self service to application teams for development and test systems



Quality

Improved quality of changes

"Working together with the application development teams gives everyone a better understanding of the entire workflow from beginning to end that we never had before."



AMI DEVOPS FOR Db2

Enables clients to automatically integrate database changes on Db2 for z/OS seamlessly into an agile application development process

Agility while maintaining stability and availability

CA Database Management Solutions for Db2 for z/OS

November 2019





Certain information in this presentation may outline CA's general product direction. This presentation shall not serve to (i) affect the rights and/or obligations of CA or its licensees under any existing or future license agreement or services agreement relating to any CA software product; or (ii) amend any product documentation or specifications for any CA software product. This presentation is based on current information and resource allocations as of February, 1st 2019 and is **subject to change or withdrawal by CA at any time without notice. The development, release and timing of any features or functionality described in this presentation remain at CA's sole discretion.**

Notwithstanding anything in this presentation to the contrary, upon the general availability of any future CA product release referenced in this presentation, CA may make such release available to new licensees in the form of a regularly scheduled major product release. Such release may be made available to licensees of the product who are active subscribers to CA maintenance and support, on a when and if-available basis. The information in this presentation is not deemed to be incorporated into any contract.

Copyright © 2019 Broadcom. All rights reserved. The term "Broadcom" refers to Broadcom Inc. and/or its subsidiaries. Broadcom, the pulse logo, Connecting everything, CA Technologies and the CA Technologies logo are among the trademarks of Broadcom.

THIS PRESENTATION IS FOR YOUR INFORMATIONAL PURPOSES ONLY. Broadcom assumes no responsibility for the accuracy or completeness of the information. TO THE EXTENT PERMITTED BY APPLICABLE LAW, BROADCOM PROVIDES THIS DOCUMENT "AS IS" WITHOUT WARRANTY OF ANY KIND, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NONINFRINGEMENT. **In no event will Broadcom be liable for any loss or damage, direct or indirect, in connection with this presentation, including, without limitation, lost profits, lost investment, business interruption, goodwill, or lost data, even if Broadcom is expressly advised in advance of the possibility of such damages.**

CA Database Management for Db2 for z/OS



Db2 Administration

RC/Migrator
RC/Compare
RC/Update
RC/Query
RC/Secure
RC/Extract



Db2 Performance

Detector
Plan Analyzer
Subsystem Analyzer
SYSVIEW for Db2
SQL/Ease



Db2 Utilities

Fast Unload
Fast Load
Rapid Reorg
Database Analyzer



Db2 Recovery

Log Analyzer
Recovery Analyzer
Fast Recover
Quick Copy
Merge/Modify



Report Facility

for TSO
for CICS
for IMS

Strategy



Modernization

Enable the **new generation** of IT professionals to interact with the products using **Modern Interfaces** like **Zowe** or via **APIs**.



Autonomics

Minimize the skills required to install, configure or use the products by leveraging **Machine Learning** algorithms.



Reduced TCO

Improve **efficiency of processing to reduce CPU** and Elapsed Time as well as minimize outage time.



Data Protection

Protecting data by creating or supporting technologies aimed to **ensure data privacy**.

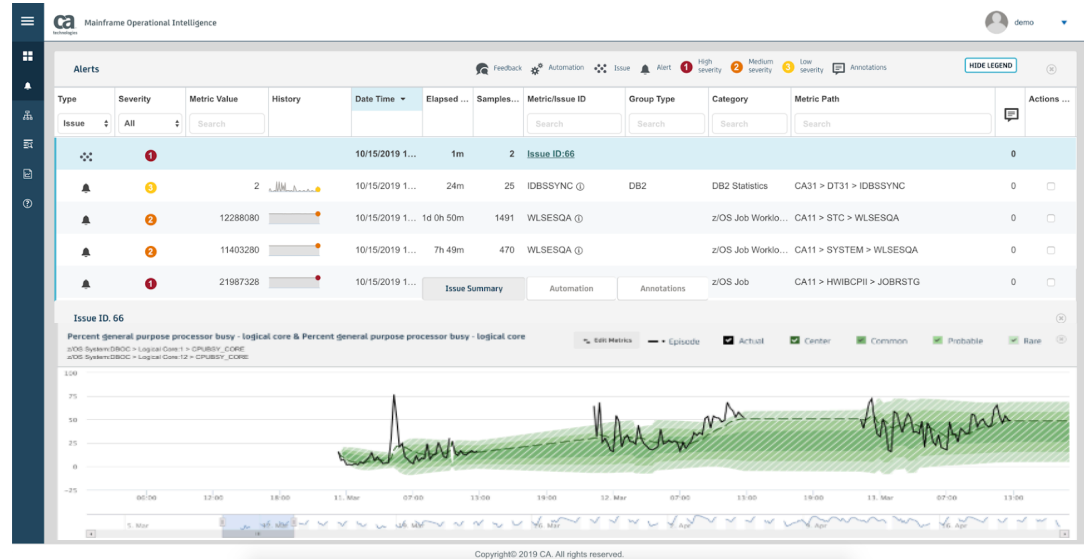
Roadmap CA Database Management Solutions for Db2 for z/OS

Timeline as of September 2019

	Delivered	Planned	Under Consideration		
Product/Release	Database Management for Db2 for z/OS r20.0 IR8	Database Management for Db2 for z/OS r20.0 CD	Database Management for Db2 for z/OS r2x		
Marquee Features/Business Value	<ul style="list-style-type: none"> ▪ Modernization of performance monitoring for SQL activity through a modern browser interface and REST APIs ▪ Advanced Software Autonomics by sending available SQL metrics to MOI ▪ Improved availability and performance of Utilities by optimizations and enhanced logic ▪ Data Protection Enhancement by certifying the entire portfolio for IBM Pervasive Encryption 	<ul style="list-style-type: none"> ▪ Improved Performance through additional overhead reduction, providing optimized sort processing, and zIIP capabilities ▪ Modernization by providing REST APIs to the products as well as further improvements of user experience via Mainframe Team Center ▪ Tighter Data Governance & Compliance through integrated Data Masking ▪ Reduced outages during upgrades by allowing upgrade of a single member within SYSPLEX 	<ul style="list-style-type: none"> ▪ Continued Modernization and simplification of user experience via a use-case driven browser interface ▪ Provision and deploy Db2 application schema changes via Zowe API/CLI ▪ Analytics Based Autonomics to provide recommendations, intelligent data maintenance, and real-time adjustments ▪ Sensitive data security through an audit repository to support monitoring of access and handling of critical data ▪ Cost reduction Analytics and Performance Optimization by providing advanced workload tuning 		
	Currently GA	Modernization	Autonomics	Reduced TCO	Data Protection

Intelligent Operations and Analytics: CA Mainframe Operational Intelligence

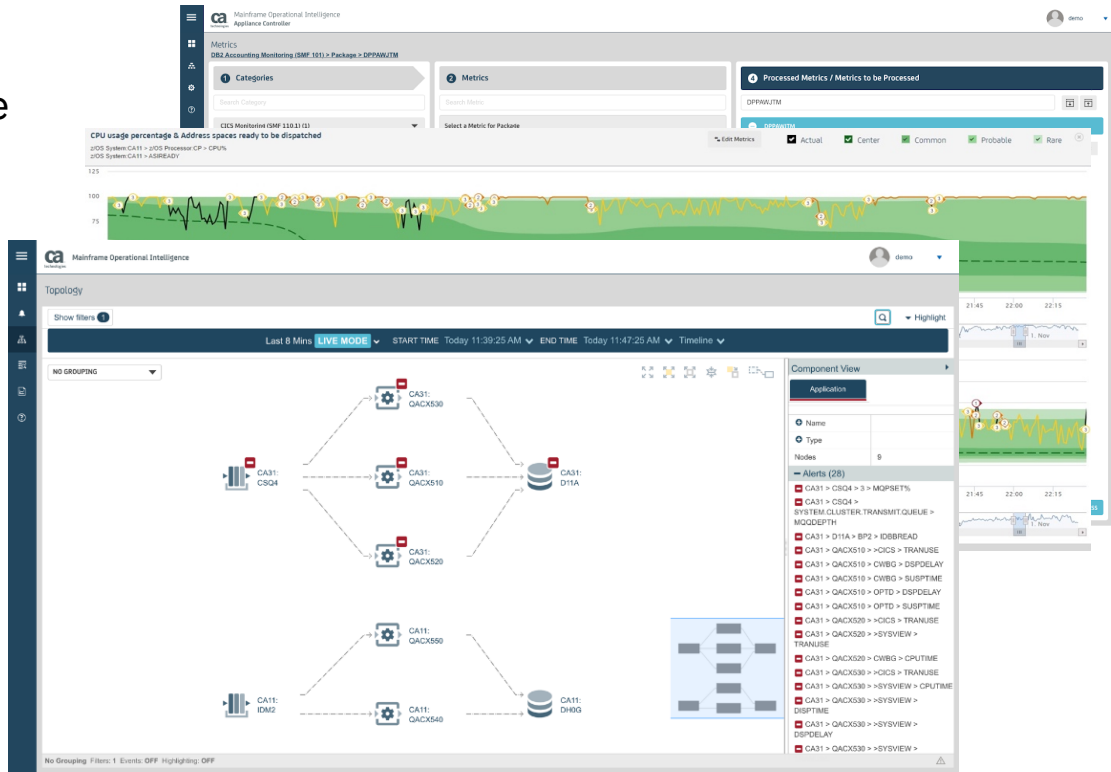
- Multi-source data feeds enable you to gather data and derive intelligence across multiple systems and sub-systems
- Multivariate clustering and a casualty modeling.
- Ability to provide input on the value of insights to improve accuracy of unsupervised ML algorithms
- Eliminate significant amount of time spent in de-cluttering the alert backlog and reduce MTTR and SME's bridge calls



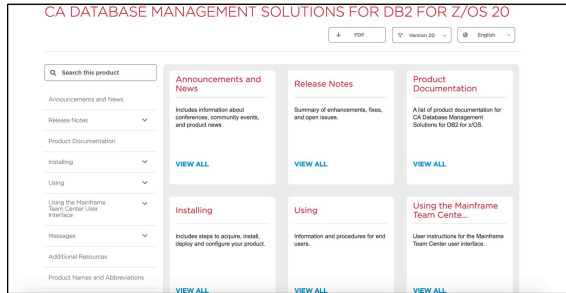
Intelligent Operations and Analytics:

CA Mainframe Operational Intelligence 2.0.05 (planned for release in CY19)

- To cover the key Business applications and MF Infrastructure
- Ability to filter and select the required instances that are important
- Enables Anomaly detection and Issue Intelligence, and Topology hotspot to cover wide subsystems
- Historical Analysis, reporting and dashboarding for DB2, CICS and MQ metrics



Everything is online ... including Roadmap and Manuals



Our product documentation is available online at

www.techdocs.broadcom.com



Short YouTube videos

Update your technical skills on CA Db2 Tools for free!



Thank You





IBM Db2 Tools Product Watch

Karen Wilkins MBCS

zAnalytics Client Technical Professional

GSE UK 2019 – Session IK



IBM z Analytics

Db2 Tools for z/OS – Providing Ever Greater Customer Value

Managing Rapid Growth, Reducing Operational Risks, Complexity and Cost

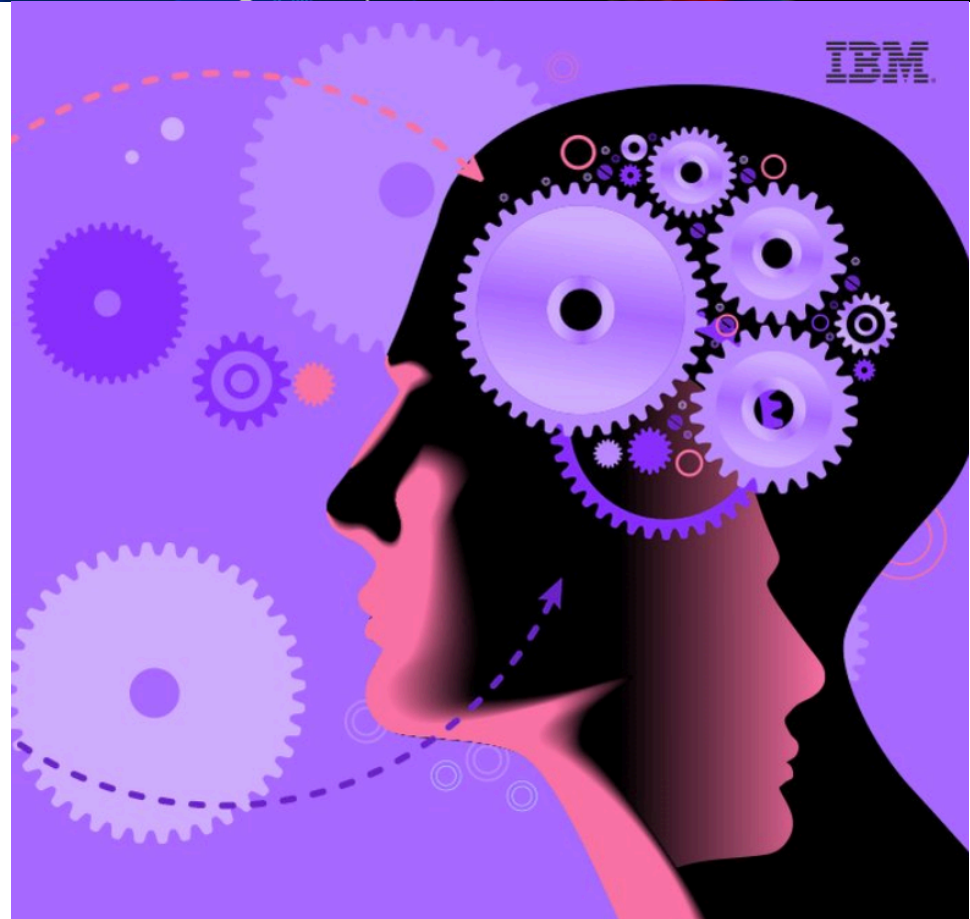
- Grow Db2 data and business while
 - Maximizing efficiency
 - Reducing costs
 - Increasing performance
- Simplify and optimize Db2 environments
 - Automate operations
 - Accelerate agile application development
 - Drive business with innovative technology
- Delivering complete coverage
 - Utilities management, database administration and system and application performance

Self-managing systems
 Application Modernization
 Intelligent B&R Efficiency Common web-based UI
 Change management Cost optimization
ROI for analytics Database provisioning
 Utilities **Db2 Tools** IBM Z Security
 Continuous delivery Agility
 Cloning Tool Smarter infrastructure API-ready
 Intelligent performance Flexibility solution options
 End-to-end administration DEV OPS
 Automated routine tasks Reliability/Availability/Security
 Deep integration with Db2 for z/OS
 Best practices Proactive performance
 Day 1 Db2 Support IBM Z Security

IBM Db2 AI for z/OS

Empowers the **Db2 for z/OS optimizer** to determine the **best-performing query access paths** based on workload characteristics using machine learning capabilities

- Db2ZAI empowers the optimizer
- Learns patterns from collected DATA
- Built on top of Watson Machine Learning
- No data scientist Support required
- Db2 generates Training DATA
- Enhances Application Performance



IBM Db2 AI for z/OS

- Version 1.2 delivers:
- More **Db2 generated machine learning models** to help improve Db2 for z/OS performance in the following areas:
 - Intelligent SQL concurrency
 - Enhanced application performance through sort optimizations
 - Exception detection from Db2 statistics with recommended actions
- **Watson Machine Learning** for z/OS as an underlying ML service providing a complete solution






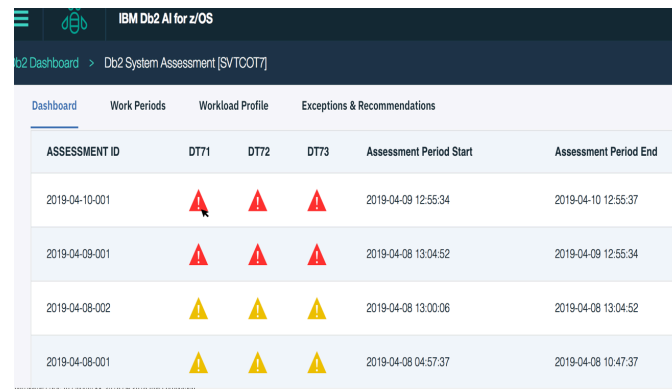
IBM Db2 AI for z/OS

- Version 1.2.0.2 delivers (October 31st) – APARs PH17089 and PH17090
 - **Improved Up and Running experience**
 - Improved Knowledge Centre
 - Streamlined install / configuration steps
 - Db2ZAI taking less than 20 mins (without WMLz)
 - **Self Healing**
 - The ability to lock /unlock access paths for both static and dynamic SQL statements
 - **System Health Assessment**
 - An ISV API REST interface that enables third-party vendor tools to directly invoke system health assessments from their tools (Rocket integration with OMPE)
 - **System Health Assessment Enhancements / SMF Assessment for L2**
 - Autonomous data collection support for the BP and GBP parameters
 - Enhancement of the system assessment rules to leverage BP and GBP settings when detecting exceptions and making recommendations
 - **GUI Improvements**
 - Now shows the status of each assessment both during and after execution. Previous releases only showed completed assessments
 - **Enhanced User Management**
 - User access privileges
 - **Support for latest pre-reqs**
 - Certification of WMLz 2.1.0.2
 - Upgrade to Node.js V8
 - Latest bash













Db2 AI for z/OS 1.2 (Systems Assessment)

Uses Machine Learning to identify **RED ZONES**, serious conditions and sub optimal boundary zones that could endanger the PERFORMANCE of Db2 systems

Priority	CEA1	CEA2
 Critical	4	4
 Highly Recommended	15	15
 Nice to Address	6	4



The screenshot shows the 'Db2 System Assessment [SVTC07]' dashboard. It features a table with columns for 'ASSESSMENT ID', 'DT71', 'DT72', 'DT73', 'Assessment Period Start', and 'Assessment Period End'. The table lists four assessments, with the first two showing red triangles (Critical) and the last two showing yellow triangles (Highly Recommended) in the DT71, DT72, and DT73 columns.

ASSESSMENT ID	DT71	DT72	DT73	Assessment Period Start	Assessment Period End
2019-04-10-001				2019-04-09 12:55:34	2019-04-10 12:55:37
2019-04-09-001				2019-04-08 13:04:52	2019-04-09 12:55:34
2019-04-08-002				2019-04-08 13:00:06	2019-04-08 13:04:52
2019-04-08-001				2019-04-08 04:57:37	2019-04-08 10:47:37

Summary

Priority	CEA1	CEA2
Critical	4	4
Highly Recommended	15	15
Nice to Address	6	4

🔍 Search

Assessment ID: 2019-04-02-002 ✕ ▾

PRIORITY	METRIC NAME	SUBSYSTEM	EXTRA INFO	WORK PERIOD NAME	RECORD COUNT	EXCP COUNT	EXCP PCT	EXCP MIN TSTAMP	EXCP MAX TSTAMP	METRI MIN
> Critical	STG_COMMON_AUX_64BIT	CEA1		NONE	243	114	46.91	2019-04-02 15:00:37	2019-04-02 16:53:37	0
> Critical	STG_COMMO	A2	Auxiliary storage usage (MB) for 64 bit common	NONE	244	114	46.72	2019-04-02 15:00:37	2019-04-02 16:53:37	0
> Critical	STG_DBM1_AUX_PRIV_64BIT_NONBP	CEA1		NONE	243	114	46.91	2019-04-02 15:00:37	2019-04-02 16:53:37	0
> Critical	STG_DBM1_AUX_PRIV_64BIT_NONBP	CEA2		NONE	244	114	46.72	2019-04-02 15:00:37	2019-04-02 16:53:37	0
> Critical	STG_DBM1_AUX_STK_64BIT	CEA1		NONE	243	114	46.91	2019-04-02 15:00:37	2019-04-02 16:53:37	0
> Critical	STG_DBM1_AUX_STK_64BIT	CEA2		NONE	244	114	46.72	2019-04-02 15:00:37	2019-04-02 16:53:37	0

Introducing Zowe

- Extensible framework for connecting applications and tools to z/OS mainframe data and applications.
- Make the z/OS mainframe an integrated and agile platform within the changing IT architectural landscape.
- First open source project launched on z/OS. All code is licensed under the Eclipse Public License version 2.0



Zowe

Zowe Open. Simple. Familiar.



Plugins



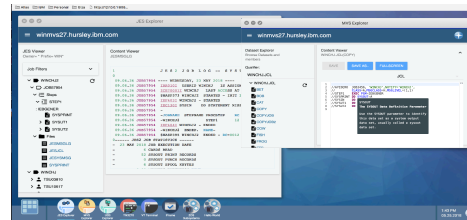
Plugins



Plugins



CLI: build | deploy



Plugins

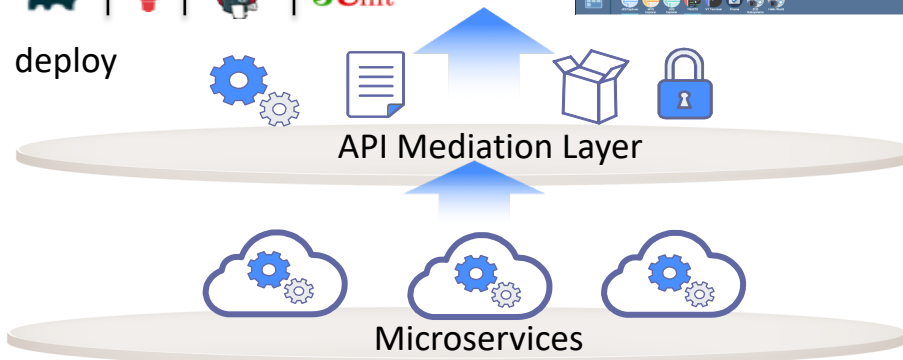


Plugins



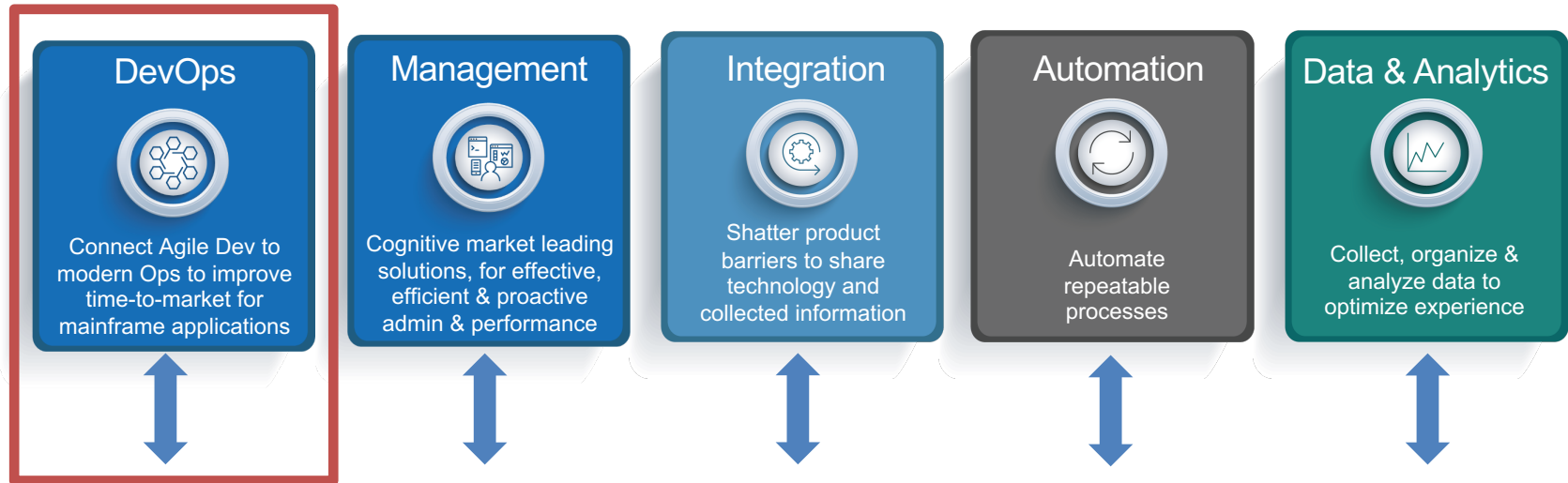
Plugins

Web Desktop



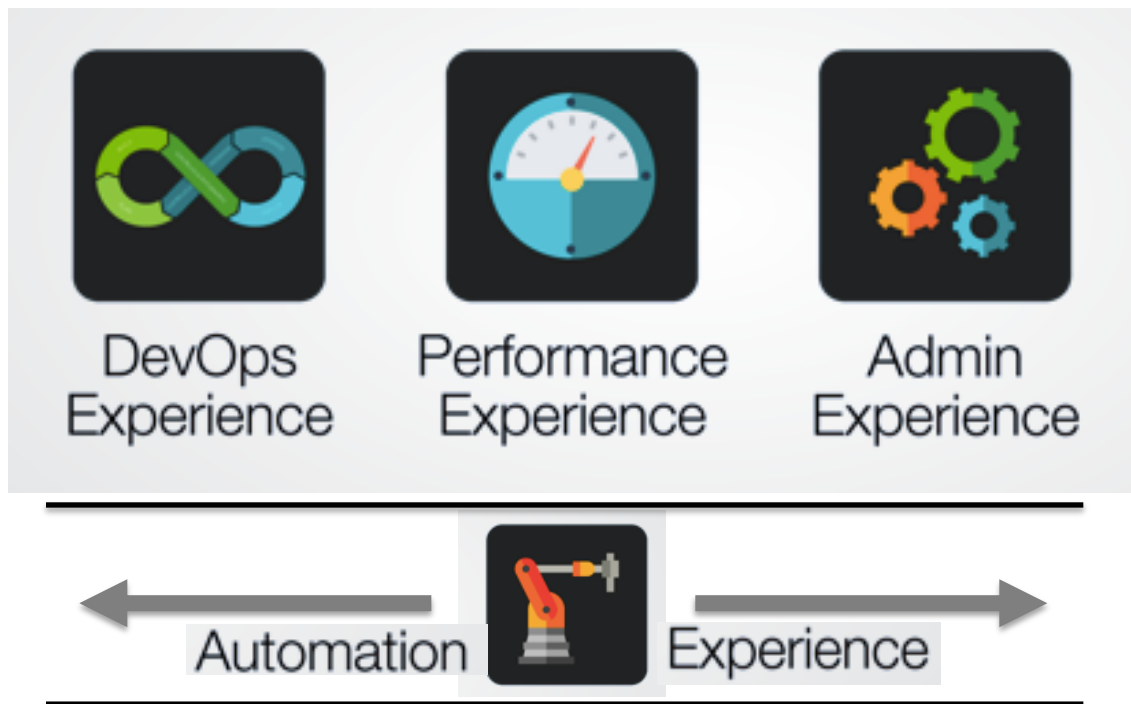
IBM is Changing How Data Management Works

Integration of Technology, Information and Roles



Zowe Platform

Create and deliver enterprise applications in a modern platform



 **Zowe**

Introducing: IBM Db2 DevOps Experience for z/OS



Db2 DevOps Experience for z/OS allows organizations to bring applications to market **more rapidly, at lower cost and with less risk.**

Combined with the mainframe's processing capacity, you can **serve customers better, respond to market changes faster and gain competitive advantage.**

IBM Db2 DevOps Experience for z/OS

Brings Db2 applications to market faster with lower costs and less risk



- Lines of Business (LOB) owners can respond quickly to customer needs and competition with faster delivery of new or changed Db2 applications
- IT can establish and enforce the criteria for App Dev to create their own Db2 for z/OS test environments, and retains control of rules and standards that protect Db2 databases and data
- App Dev avoids the wait time for IT to create Db2 for z/OS test environments, and can work in teams using more modern agile development methods

IBM Db2 DevOps Experience for z/OS – Features



- Ability to create and delete Db2 for z/OS sandbox environment for testing without IT time and assistance
- Make Db2 syntax changes using object-aware Data Definition Language (DDL) editor
- Integrate Db2 database object management into existing continuous delivery development processes



- Define teams of users, environments, and application components for developers to use in their application development
- Discover and select application's Db2 database components to be managed and processed together
- Set rules and storage limits for the defined teams
- Review and approve developer schema changes



Zowe

zowe.org

IBM Db2 DevOps Experience for z/OS

The screenshot shows the 'Subsystems' management page. The title is 'Subsystems' and the subtitle reads: 'You must register each subsystem that you want to use for object management or provisioning. You can view and edit registered subsystems or discover and register new subsystems.' There are three tabs: 'Registered', 'Discover', and 'Define'. A search bar is present with the text 'Search registered subsystems'. A 'Register Subsystem' button is located at the top right. Two subsystems are listed: 'PCB1' and 'ISB2'. Each entry shows host, port, location, and instance limit information, along with an 'Edit' button.

This is a modal dialog box titled 'Provision a new instance'. It contains the following fields and options:

- Instance name:** SampleDB Inst1
- Application:** Sample DB (dropdown menu)
- Team:** DB2 DevOps Experience (dropdown menu)
- Environment:** Development (dropdown menu)

At the bottom, there are 'Cancel' and 'Provision' buttons.

The screenshot shows the 'Instances' page. The title is 'Instances' and the subtitle reads: 'All available provisioned instances are listed below. Provision a new instance to begin development.' There is a search bar with the text 'Search instances' and a 'Provision new instance' button at the top right. A list of instances is shown, with one instance 'SampleDB Inst1' highlighted. The instance details are: Application: Sample DB, Subsystem: ISB2 (RS01/ISB2), Schema: NWTNS36, Team: Development - DB2 Dev... The instance status is 'Ready' with a green checkmark. A 'Details' button is below the instance card. To the right of the list is a dashed box with a plus sign and the text 'Add Instance'.



TN3270

VT Terminal

Db2 DevOps Experience

4:00 PM
09.28.2018



IBM is Redefining Data Management

- Simplify the complexity of multiple tools, settings, configurations, etc. with technology that shares and collects information
- Reduce the learning curve to onboard new users with no mainframe skills
- Change app development/release processes that were slow, manual and error-prone
- Learn from actions and information for faster resolution and future predictions



Not forgetting ...

- Db2 Administration Tool
 - Retrieve trace data for accelerators – APAR PH09847
 - Display accelerator status – APAR PH09847
 - Bind avoidance – APAR PH06267
 - DBRM Regenerate – APAR PH06267
 - Catalog Cleanup – APAR PH06267
 - Site standards “Invocation Exit” – APAR PH09606

Not forgetting ...

- Db2 Administration/Object Comparison Tool
 - Batch changes, new BET line command – APAR PI96053
 - Easier detection of error messages – APAR PI66475
 - Consolidated into a single DD ADBMSGs

Not forgetting ...

- Db2 Automation Tool
 - Exception profile simplification and additions – APAR PI99194
 - Grouped exceptions together logically by statistical category
 - Add new exceptions to simulate the results DSNACOXX
 - New BUILD primary command to make a temporary change to an existing job profile – APAR PH09073
 - “Order By” clause for Advanced SQL Statements – PH10626
 - Process RI option in Object profile now supports a “Build” time option – PH10626
 - Other enhancements – PH09073

Not forgetting ...

- Db2 Automation Tool
 - Other enhancements – PH09073
 - During installation, all BIND jobs now use the OWNER keyword. Also removes the duplicate jobs generated for DSG SSIDs
 - Implemented a new device table in support of Esoteric SORTDEVT Devices
 - Enhance RI Explode to include wild-carded objects at the partition level
 - Group REORGs of partitioned tablespaces with NPIs
 - Implement support for new REBUILD INDEX utility
 - Support use of Db2 Template for REORG INDEX SYSUT1 data set

Not forgetting ...

- Db2 Recovery Expert
 - Reorganisation of LBDR and Transaction Recovery panels in ISPF – APAR PH12477
 - The ISPF client was changed to be more task-oriented and consistent with the Web client
 - The LBDR and Transaction Recovery operations are now available from the new "Ad-hoc Operations" option added to the main menu. It is no longer necessary to create a profile to perform LBDR or Transaction recovery jobs.
 - Allow redirected recovery of dropped objects – APAR PH11064
 - If source and target SSIDs are equal and log apply is not disabled
 - Additional monitoring of SLB and offload – APAR PH13181

Not forgetting ...

- Db2 Recovery Expert
 - Advanced Recovery – APAR PI95004
 - Remove some of the previous restrictions with UNDO/REDO SQL recovery plans and log-based dropped object recovery plans
 - Recovery Monitoring – APAR PH00827
 - Allows user to view the status of the running recovery jobs to better determine when the recoveries will complete

Not forgetting ...

- Db2 Recovery Expert – New Features
 - Inform user if an object being recovered may be part of a replication strategy – APAR PI95383
 - Estimation of log records to avoid sorting problems during Advanced Recover or Redirected Recovery – APAR PH05326
 - Rebuild NPIs in parallel – APAR PI91829
 - Recover Accelerator Tables after Recovery – APAR PH03382
 - During recovery plan generation provide the user the option to validate the existence of required Db2 logs and image copies – APAR PI98650

Not forgetting ...

- Db2 Cloning Tool
 - Using DNS instead of IP Address – APAR PI97051
 - Enhanced App Cloning Index Processing – APAR PI99726
 - The product detects if an index should be rebuilt and if so, will not include it in the list of objects to be cloned
 - Enabling Db2 for z/OS Provisioning – APAR PH00169
 - Allows Db2 for z/OS to participate in DevOps provisioning via REST calls for users who do not have the DevOps experience

Not forgetting ...

- Db2 Cloning Tool
 - Support indexes in target log apply processing – APAR PH13041
 - Enhances performance and reduces cloning time
 - Support Log Apply with Db2 SORT – APAR PI97593
 - Enhances performance and reduces cloning time.
 - Allow COPY-BY-DS to perform copy to Peer-to Peer Remote Copy (PPRC) primary volumes – APAR PH13041

Not forgetting ...

- Db2 Log Analysis Tool
 - Provide a panel to translate a timestamp with microseconds to an LRSN/RBA and vice versa – APAR PH03886
 - Usage of the DSNHDECP module with a custom name – APAR PH11341
 - Allow the header columns for CSV format load files to be changed – APAR PH13447

Not forgetting ...

- Db2 Table Editor
 - Update only those cells whose values have changed – APAR PH08648
 - Provide a command to reset the options “Set the confirmation off” – APAR PH08608
 - Complete support for Db2 Analytics Accelerator – APAR PH01973

Not forgetting ...

- Db2 Query Monitor/Db2 Automation Tool
 - Smarter REORGs – APARs PI92519 and PI92498
 - Db2 Automation Tool can be enabled to work with Db2 Query Monitor to provide smarter reorganization recommendations. The performance data that Db2 Query Monitor collects on application objects can be used to determine whether query performance has degraded or not, thereby avoiding unnecessary reorganizations and use of resources.
 - Other considerations
 - Some configuration required (AT-TLS, SSL, certificates, ...)
 - Requires object level performance data to be collected by Db2 Query Monitor
 - Can impact interval cutting

Not forgetting ...

- Db2 Query Monitor
 - Elimination of consecutive identical negative SQL codes – APAR PI95524
 - Enables Db2 Query Monitor to detect duplicate SQLCODEs at the thread level or the Db2 subsystem level
 - Collect Positive SQL codes – APAR PH01452

Not forgetting ...

- Omegamon Performance Expert
 - Batch support for zHyperLink – APAR PH04126
 - Enables customers to measure the impact of zHyperLink and also enables customers who don't have zHyperLink to project how much benefit they might see if installed
 - Batch Support for IRLM Counters and Stats – APAR PI93817
 - Extends the reporting of the product by externalizing 30+ IRLM counts
 - HTAP Accounting
 - Allows DBAs to monitor the IDAA HTAP dynamic query statistics
 - Buffer pool data added to the enhanced 3270 UI thread detail
 - Can now review buffer pool information (such as getpages and buffer pool hit ratios), to evaluate how well a thread is performing and to determine if excessive I/O is being consumed for a thread

Not forgetting ...

- Db2 Accelerator Loader
 - Active Load Progress Status – APAR PH03209
 - Support sliding scale allocation algorithm for writing data to VSAM – APAR PI99482
 - Provide option to pass Db2 DSG into the Loader ISPF interface – APAR PH09817
 - Add support for accelerator groups to consistent load – APAR PH09817
 - Improves performance by allowing data to be loaded into the target Db2 table and Accelerator in parallel
 - Support Accelerator SP Host Variable MAX Length – APAR PH09817
 - Group Consistent Load support to load both Db2 and the Accelerator to an alternate table on the local or remote system – APAR PI49622



Thank
You

