



Keynote

K00 - "Db2 for z/OS - Trends and Directions"

Peter Hartmann (Senior Technical Presales - Db2 for z/OS)

This session outlines the latest corner stones in Db2 for z/OS development progress. Some of these milestones will be illustrated and explained by examples. The value and role of Db2 for z/OS from a wider and higher point of view will become visible.

***Peter** is working with Db2 for z/OS since 25 years. He started his Db2 for z/OS career in a large customer environment and was responsible for the whole Db2 infrastructure and design. 15 years ago he became employee of IBM. He is working with European customers on all topics around Db2 for z/OS including deploying new functionalities, setting up design, pursuing requirements, performing health checks, improving performance and solving problems.*

Track A: Systems Administration

A01-" Using Transparent Data Encryption in Db2 for z/OS"

Steve Thomas (Principal Engineering Services Architect at BROADCOM)

This session will focus on how to use and exploit Transparent Data Encryption to secure your sensitive Db2 for z/OS data. We'll describe how the latest z14 Hardware has made universally encrypting Db2 objects much more feasible, how you can use it with earlier releases and the new Control capabilities which were introduced by DB2 12 Function Level 502. Once the fundamentals have been covered we will move onto discussing the operational implications of using this feature covering aspects such as Security, Performance, Utilities, Data Migration and Recovery.

***Steve** is a Principal Architect and a member of the SWAT team at Broadcom, helping customers to get the most value out of Db2 and Broadcom Solutions as well as influencing future product strategy and direction. Steve has been a Db2 Specialist for 30 years, an IBM Champion for Analytics since 2009 and is a regular speaker at User Groups and Conferences around the world. He has worked closely with IDUG for many years, including a long period as a member of the Conference Planning Committee for Europe and was honoured to serve as Chair of the 2015 IDUG EMEA Conference in Dublin.*

A02 – “Turning Z Data into Familiar Building Blocks for New Application Development”

Joris Cornette (Senior Solutions Advisor at Rocket Software)

When developers need mainframe data it is often the DBA that gets the call. Non-relational data like VSAM, IMS, Physical Sequential and others isn't compatible with today's development tools. Now you can instantly transform mainframe data into familiar relational formats via a wide range of APIs and interfaces. Learn how to avoid development bottlenecks and enable developers to be more productive and self-sufficient using IBM Data Virtualization Manager for z/OS.

*In 1976, while **Joris** was in university training as an astrophysicist, he came in contact with big iron. At that time he worked to solve differential equations and since then has been active in data base management systems like Db2, IMS and IDMS, in application management (white box testing, re-engineering, JCL optimization) and in storage management.*

He has primarily worked with ISVs and 3rd party vendors during his career in Belgium, France and Germany.

His expertise of the last decade has been on best management practices in Storage and Systems Management solutions, Cloning solutions and Backup and Recovery solutions for Db2 and IMS. As a Solutions Advisor at Rocket Software, Joris currently supports and advises primarily IBM customers and colleagues in the EMEA territory.

His current focus is on data virtualization on z/OS platforms (IBM Data Virtualization Manager).

A03-"Db2 V12: performance benefits out-of-the-box"

Fabio Massimo Ottaviani (EPV Technologies Technical Director)

In this presentation we will discuss the amazing benefits obtained, out-of-the-box, by one of our customers migrating to Db2 V12 M100.

We measured:

- Reduction of zIIP MIPS used by Db2 system address spaces;
- Reduction of CPU and zIIP MIPS used by Db2 applications;
- Reduction of the 4HRA peak;
- Response time improvements of most critical applications.

***Fabio Massimo Ottaviani** has been involved in Performance, Service levels, Capacity Planning and Cost Accounting projects since 1982.*

In 2002 he joined EPV Technologies to work as Technical Director at designing the EPV products suite.

He is involved in projects aimed at the performance optimization of DB2, IMS, CICS and Websphere applications and in general of z/OS environments. He also performs periodical Capacity Planning activities at many customers sites in Italy. Fabio is a frequent speaker at CMG and IBM conferences in Italy and abroad.

He has a degree in Statistic Sciences.

A04-"Db2 for z/OS - Function Levels and Beyond"

Peter Hartmann (Senior Technical Presales - IBM)

In this session the latest enhancements in the different function levels are presented. The focus is how users can exploit and adapt these new functionalities. Also it will be outlined what consequences and tradeoffs the users have to consider. In addition, some important functionalities not tied to a specific function level are illustrated.

A05- “Copy Smarter - Unload/Load, DSN1COPY and beyond”

Kai Stroh (Senior Product Developer at UBS-Hainer)

We will discuss setting up a refresh process for thousands of DB2 z/OS tables and the advantages and disadvantages of different utilities that copy DB2 data. The main focus will be on automating all the side tasks that DBAs usually need to do in addition to copying the data itself.

***Kai Stroh** earned a Computer Science degree from the University of Darmstadt and is a mainframe software developer specializing in DB2 utilities for z/OS. He designs and builds innovative Db2 applications and utilities often working onsite or remotely with UBS' international clients. He easily navigates his way around Db2 internals and knows how to move data and definitions across Db2 versions, and this includes the unique in-house Db2 subsystems which each have their own little technical adaptations.*

A06- “Surviving or Thriving - Automation may be the key to your future success”

Phil Grainger (Principal Enablement Manager at BMC)

Are you surviving or thriving in this new era of digital business. We are all facing new challenges that were not even part of our worst nightmares even a few years ago. It's becoming clear than managing modern database resources is not possible using the manual process we are used to using. For a business to thrive in this new era we need to look to automation to take some of the drudgery off the shoulders of DBAs. Whether this is automation of monitoring or automation of regularly performed tasks let's harness the strengths of the mainframe itself to make our lives easier

***Phil** has over 30 years experience of Db2, starting work long ago in 1987 with DB2 Version 1.2. Since then he has worked with all versions, including Db2 12*

From his beginnings as a DBA for one of the largest users of DB2 at that time in the UK, through his time at PLATINUM technology, his almost 10 years as Senior Principal Product Manager at CA and through to his current position with BMC Software, Phil has always been a keen supporter of user groups and is a regular speaker at both vendor sponsored and independent events. His work with IDUG includes being BMCs liaison to the European IDUG Planning Committee and he is an inductee into the IDUG Volunteer Hall of Fame

Phil has been honoured by IBM as an Analytics Champion for the last ten years, from 2009 to 2019

Phil is now Principal Enablement Manager at BMC Software working in support of their Db2 tools portfolio

In addition, Phil is a regular contributor to the IDUG sponsored Db2-L discussion list

Track B: Application Development

B01-“Test Data Management Concepts”

Florian Kattner (UBS-Hainer)

This presentation features a first insight into test data management concepts. It demonstrates processes for decoupling the production environment from testing and development environments and for creating several test environments for various kinds of test, while focusing on different means of test data provisioning (automatic and manually triggered processes).

It further investigates masking and anonymization techniques and how to use them correctly.

***Florian** studied Business Informatics at the THM Friedberg and concluded with a master's degree.*

He develops and distributes software and consults with international customers over their test data management strategies.

He also designs easy to access and visually unique user interfaces, while keeping track of the underlying user experience for an intuitive and comprehensive workflow.

B02-“Advanced Design Considerations”

Phil Grainger (Principal Enablement Manager at BMC)

During the design of a DB2 application, there is now a lot more to consider than just “what should the tables look like”. We need to take into consideration where we should create indexes, and why. We might think about partitioning for performance or for manageability. What about partitioned and non-partitioned indexes – they each have their advantages and disadvantages. More recently, we’ve been given the option to create Materialized Query Tables, but when would these be good to use?

This presentation steps through some of the new (and not so new) elements of DB2 database design and highlights pros and cons of each

Unfortunately, as with a lot of DB2 decisions, there are no absolute correct answers – the right answer in your case will always “depend” on circumstances, but hopefully this presentation will give you the information you need to make informed choices

B03 “From Db2 to Data Science, a First Approach”

Javier Estrada Benavides (BROADCOM)

El campo de las tareas de los DBAs necesita evolucionar para poder hacer frente a las tendencias actuales, atraer atención, promover ventajas de su infraestructura y entornos, y posiblemente integrar factores clave que pertenecen a otros roles, y de esta manera, abrir nuevas oportunidades. El campo de Data Science es un área que invita a mayor estudio de todos los campos y roles, y dadas las nuevas posibilidades, es importante comprenderlo para integrarlo en nuevos proyectos.

En esta presentación, comenzaremos con una tarea sencilla que todo DBA recibe: Extraer un archivo CSV, y partiendo de este punto, veremos cómo es que el campo de Data Science interviene para un análisis sencillo y práctico: Maneras de comenzar, puntos a considerar, y técnicas que pueden ser útiles en nuevas oportunidades.

El alcance de esta presentación es el siguiente:

- Examinar algunas alternativas para extracción de datos de Db2 para z/OS. Soporte sobre FTP y acceso vía Apache Spark.
- Explorar conceptos iniciales de EDA (Exploratory Data Analysis) y Machine Learning.
- Explorar ideas de negocio y puntos de vista que pueden ser tomados para proveer contenido útil a la información extraída de Db2.

Javier Estrada ha estado trabajando en Mainframes desde hace 12 años, tomando varios roles con enfoque principal en Db2 para z/OS como System Admin. También está interesado en el campo de Data Science y cómo puede ser combinado con el trabajo de DBA para evolucionar de la idea tradicional de bases de datos. Javier tiene el título de IBM Champion desde el año 2018, es miembro de varios user groups de varios países, y es un miembro del comité de contenido del IDUG.

B04-“ Pruebas Unitarias y Funcionales con DB2 - Automate de forma inteligente sus ciclos de pruebas con DB2”

Marcin Grabiński (Enablement at COMPUWARE)

Las pruebas unitarias y funcionales se han ido abriendo camino en el mundo del mainframe, dando lugar a un número cada vez mayor de iniciativas en torno a la automatización de los procesos de pruebas. Aprovechar estas prácticas y perfeccionarlas es un proceso de aprendizaje continuo. En esta sesión, el especialista técnico de Compuware, Marcin Grabiński, compartirá 3 buenas prácticas clave para automatizar de forma inteligente los ciclos de pruebas con DB2 y, al mismo tiempo, mejorar la velocidad, la calidad y la eficiencia de las pruebas.

Únase a esta sesión y:

- Aprenda a conseguir los beneficios de las pruebas unitarias y funcionales con DB2
- Comprenda cómo aumentar la velocidad de las pruebas usando Stubbing para probar las llamadas DB2.
- Vea un pipeline automatizado de CI/CD en acción con DB2 y Jenkins

Marcin Grabiński, EMEA Technical Solution Specialist at Compuware, has almost 20 years of experience in the IT sector, including over 15 in mainframe. Marcin is Compuware's resident expert in its Topaz for Total Test and Test Data Privacy solution and he has been involved in the execution of numerous projects with major companies in the financial services sector across Europe, the Middle-East and even Japan, making him the Most Frequent Traveller in Compuware. Marcin is also a history fanatic brimming with little-known historical facts.

B05-“Db2 in the Cloud - developing Applications using RESTful APIs”

Steve Thomas (Principal Engineering Services Architect at BROADCOM)

One of the most important trends in the industry over the past few years has been the increasing acceptance and adoption of the Cloud based computing paradigm. As Db2 for z/OS professionals and enthusiasts it is vital that there are no barriers preventing the full participation of Db2 if we want it to remain relevant and utilised moving forwards. A key tool which allows this to happen has been the introduction of native REST API support by DB2 for z/OS. This session will describe how this works, and will provide step by step instructions of what you need to do to develop your own Db2 for z/OS applications using RESTful APIs, using a simple example as a guide.

B06-“Db2 The AI Database”

Luis Reina Juliá (IBM – Senior Professional Services Consultant)

