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The AI Ready Platform for Managing all your Data



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IBM Director of Licensing IBM Corporation North Castle Drive Armonk, NY 1 0504- 785 U.S.A. **IBM Analytics**

There is no AI without an IA

(information architecture)

999% of AI is supervised

do not understand the data required for AI

"No amount of AI algorithmic sophistication will overcome a lack of data (architecture)... bad data is simply paralyzing."

MITSIOan Management Review

Data underpins most AI today, yet....



of C-level execs and IT Decision makers reported that their organization is unable to deploy the AI technologies because their data is not ready to support them.



5

Al adoption is Accelerating but there is a set of unique challenges

94%

of companies believe that AI is key to competitive advantage

Al associated with CRM activities will boost global business revenue by \$1.1T from 2017 to 2021 Only **1 in 20** companies have extensively incorporated AI in offerings or processes Top reasons for lack of AI Adoption

Skills

Lack of requisite talent to drive AI adoption

Data

Only 19% respondents strongly agreed that their organizations understand the data required to train AI algorithms. Data used is not of high quality or trusted.

Trust

Only 35% of IT and Business decision makers had a high level of trust in their own organization's analytics. Al insights not well integrated into current processes

Lifecycle of an AI Use Case



Hybrid Data Management Strategy: The Ladder to AI





Hybrid Data Management Strategy – The Ladder to AI - Collect

One entitlement

All workloads

One engine and

All deployment

experience

targets

Hybrid Data Management Platform				
OLTP	OLAP	BIG	FAST	
Db2 Common SQL Engine				
Public Cloud	Private Cloud	On-premises	Appliance	

Hybrid Data Management Strategy - Comprehensive

Our hybrid data management design principles



Hybrid Data Management Strategy - Build Without Limits



All data types

- Flexible consumption

 Fast and traditional data

- Deploy everywhere
- Unified experience from discovery to support
- Integrated Machine learning and smart capabilities

DB2

Db2

Family

Comprehensive suite for structured data

open source

Open Source Market leaders



Informix Embed/IoT



HDP Hadoop for the enterprise

Introducing Db2 (Common SQL Engine)

Confidence-based query results leveraging ML-SQL



Faster data exploration in Natural Language

by using Natural Language Query and Augmented Data Exploration



Model Complex Relationships by using Db2 Graph and SQL Enterprise Grade Resiliency, Scalability & Security



#1 in Performance

powered by cost optimizer, ML optimizer & adaptive workload management



Blockchain Ready using Db2 Blockchain Connector



Up to 10x better query performance powered by an ML-Optimizer



Build AI based applications

with Python, GO , JSON and Jupyter notebooks



No data movement & a single view on all data

delivered by Data Virtualization

Built for AI and Powered by AI

As data maturity increases, so does the number of data professionals who are hungry to put data to work



Hybrid Data Management Strategy – Address all Dimensions of Hybrid

NOT about Cloud **OR** On-premises

NOT about traditional relational **OR** open source

NOT about SQL OR NoSQL

NOT about structured OR unstructured data

NOT about data at rest **OR** data in motion

It's about Cloud **AND** On-premises

It's about traditional relational AND open source

It's about SQL AND NoSQL

It's about structured AND unstructured data

It's about data at rest AND data in motion

Hybrid Data Management Strategy - Common SQL Engine

Our family of **Hybrid Data Management** solutions built on the **Db2** common SQL engine

Write your SQL once deploy against any form factor **run anywhere**

			· J			
Cloud	Clou	id	Clou	d	Cloud	
Db2 Warehouse on Cloud – Fully-managed, cloud data warehouse	Db2 on Cloud — Fully-managed, cloud transactional data store		Db2 Hosted — Not managed - we install Db2 and hand the keys over to you		Hosted Analytics with Hortonworks Hosted Hadoop deployment with Big SQL and Data Science Experience	
Db2 SQL Engine						
Integrated Analytics System — Dedicated analytics appliance	Db2 & Db2 Warehouse Transactional or analytics SQL database deployed on commodity hardware		Db2 Big SQL — Open source Hadoop with Hortonworks		Db2 Event Store Event-driven data processing and real- time analytics	

Hybrid Data Management Strategy - Flexibility of Deployment



Hybrid Data Management Strategy - HDMP

IBM Hybrid Data Management Platform



Available for purchase via two licensing models:



- Supports OLTP, warehousing, SQL on Hadoop, and Fast Data on private cloud and on-premises infrastructure
- Intended for customers who need to maintain ownership of their software licenses in perpetuity

(licensed monthly)

- Supports OLTP, warehousing, SQL on Hadoop, and Fast Data on public cloud, private cloud, and onpremises infrastructure
- Intended for customers who want to procure software and cloud services as an operational expense

Hybrid Data Management Strategy - Data Virtualization

Cornerstone of a Logical Data Lake Architecture

Query anything, anywhere.

Query **many diverse data sources** across cloud, on-premises and mobile with advanced analytics using the most popular languages and tool

SQL, Spark, R, Notebooks, Python, Data Science Experience (DSX), Cognos Analytics, Common Analytics tools, etc.

2



Query many sources as one with extreme

Simplicity. Connect **few to many devices and data stores** into a single self balancing constellation. Avoid the complexity of centralized copies. Data only persists at the source.



Massive speedup. Many times acceleration using the power of every device.



IBM Cloud

aws

🔁 AliCloud

Hybrid Data Management Strategy – Hybrid and Multi-Cloud

Competitive and deeply integrated IBM Cloud services

Fully-managed Db2 services on AWS

... support of all major cloud provider to deploy existing entitlements



IBM Cloud Private for Data

Enable private cloud consumption

...ICpfD – all Db2 family and Open Source database

...ICp – limited to operational databases for application development

...use HDMP as the single entitlement supporting all consumption models

Hybrid Data Management Strategy - IBM Cloud Private for Data Making Your Data Ready for Al



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Hybrid Data Management Strategy – Multi-Cloud Roadmap



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* approved for SAP on Db2 , otherwise requires approval ~~ imes

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Hybrid Data Management Strategy – Leverage IBM and RedHat

Hybrid		<i></i>		
Multi-cloud				\checkmark
Open	It's a hybrid world	Containers are strategic	Innovation is the path forward	Certified stacks are secure
Secure				
Data				
1	2	3	4	5
Hybrid	Multi-cloud	Open	Secure	Data
Enable enterprises across Traditional, Private, and Public environments	Manage other vendors' clouds, acknowledging the reality that client environments are heterogeneous	Build capabilities that are open by design, enabling client flexibility and reducing vendor "lock in"	Provide reliability and continuous security for the client's environment	Unlock the value of data in totally new ways and accelerate the journey to AI

on

Hybrid Data Management Strategy - Commitment to Open Source



cloudera



Hybrid Data Management Strategy - Open-Source Database Strategy



One-stop-shop experience



Integrate with HDM and ICPfD

...to unify the user experience and unlock the value of data





Offer consistent availability across private/public cloud ...enable hybrid data architectures and transition to public cloud ...unify user experience

Db2 Big SQL – Roadmap - Infuse the Power of Db2 in Hadoop









Accelerate time to market while modernizing your warehouse Empower SQL users to operationalize ML models

Augment disparate data for deep analytics and AI

Enable BI analytics with high performance and enterprise security

Above all, bring stability to your applications even when the platform goes through updates.....

New News !! Db2 Big SQL on HDP 3.0 will be available HDP 3.0 on Feb 28th, 2019 Has been announced and coming soon.... Introducing Db2 Big SQL support on Cloudera in 2Q 2019.

Make Db2 Big SQL the point of entry to Big Data irrespective of which platform has the data

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Db2 (Common SQL Engine): The end state: *A Hyperconverged AI database engine* for a Hybrid Cloud World

Cloud native, Truly elastic

Pay for what you use Highly resilient and infinite scalability

No more ETL

Minimize data movement Boost distributed result processing

Hybrid & Multi-Cloud

Runs where you want to be One view across your hybrid cloud environment



No lock-in

Open Parquet file format All major languages supported

Powerful & Simple

OLTP, OLAP, No SQL, Graph, Blockchain Automatic access optimization One copy of data

AI-powered

ML-based SQL optimizer ML-SQL Embedded model training

Build for Developers and Enterprise users alike



Db2 is the only database that offers exclusive features for maximum performance

Db2 is the only database that offers a shared disk and shared nothing architecture option for high-end optimization of all workloads





- Industry leading cost optimizer
- ML Optimizer (New)
- Adaptive Workload Management (New)

Db2 - Only database with ML Optimizer and Cost Optimizer

Machine Learning Optimizer that improves from experience to make query optimization simple, reliable and stable

New

- Number of rows flowing through the various operations impacts performance for most common issues and is calculated via cardinality estimates
- Basic tuning to improve cardinality estimation is high impact
- Phase 1 Cardinality Estimation
 - Initial phase Support equality & range local operators with no expressions
 - Future phases Cardinality support for expressions, predicates & BLU, support for join enumerations,

The Db2 11.1 lifecycle



Regular fix/mod pack deliveries (every 6-9 months)

- With overriding focus on stability for immediate deployment to production environments
- Modifications will contain select functional enhancements (often off by default)

Interim fix (aka "iFix") containing only critical fixes to last update released every 2-3 months until next update occurs

Db2 11.1.4.4 – New News Continuous Delivery – 4Q18 New Capabilities



Db2 11.1.4.4 - Extent reclaim support for pureScale



_	_	_

Internal table space metadata extents



Table 1







Extent that is allocated to a table space, but not to a table

Db2 11.1.4.4 - A brief history of JSON Support (Part 1)

Db2 10.5 introduced JSON NoSQL support

- Focused on allowing Db2 to participate in the NoSQL paradigm
- Customers asking for native SQL support of JSON
 - Legacy applications accessing new JSON data
 - New JSON applications wanting to access legacy data
- INDEX ON EXPRESSION allows for fast performing queries against JSON data



Db2 11.1.4.4 - A brief history of Db2 & JSON (Part 2)

Our customers also asked for native SQL support for JSON in Db2



As a tactical response, we revealed our proprietary "SYSTOOLS" JSON SQL functions in DB2 11.1

Db2 11.1.4.4 - Proprietary JSON SQL functions

- To help simplify our customer's experience with the proprietary JSON SQL functions, we have now officially support them Db2 11.1.2.2
- The functions are automatically created in SYSTOOLS schema for a new database
- The functions are now documented in the knowledge center under a section called "SQL access to JSON documents"

Insert, Retrieve, and Document Validation

- BSON2JSON Convert BSON into JSON
- JSON2BSON Convert JSON into BSON
- BSON_VALIDATE Ensure LOB is valid BSON

Field Retrieval

- JSON_VAL Extract data from JSON into SQL data types
- JSON_TYPE Returns data type of a JSON field

Array Retrieval

- JSON_TABLE Returns a table of values from a JSON array
- JSON_LEN Returns #elements in a JSON array
- JSON_GET_POS_ARR_INDEX Find a value within an array

Document Update

 JSON_UPDATE – Update a field or document using set syntax

Db2 11.1.4.4 - Enhancements to JSON NoSQL support in Db2 11.1.4.4

- Db2 NoSQL JSON wire listener is enhanced to support latest mongo db client (3.6.3)
- Added support for Kerberos
 Authentication to wire listener
- Enhanced wire listener script to enable jcc and nosql trace using command line options.



Db2 11.1.4.4 - Enhancements to JSON SQL support in Db2 11.1.4.4

- First wave implementation of new built-in JSON SQL functions based on ISO technical report for SQL support for JavaScript Object Notation (JSON)
 - These JSON SQL functions follow a public "standard"
 - The (proprietary) SYSTOOLS JSON SQL functions will be de-emphasized but will continue to be supported

Schema	Name	Comments
SYSIBM	BSON_TO_JSON	Convert BSON formatted document into JSON strings
SYSIBM	JSON_TO_BSON	Convert JSON strings into a BSON document format
SYSIBM	JSON_ARRAY	Creates JSON array from input key value pairs
SYSIBM	JSON_OBJECT	Creates JSON object from input key value pairs
SYSIBM	JSON_VALUE	Extract an SQL scalar value from a JSON object
SYSIBM	JSON_QUERY	Extract a JSON object from a JSON object
SYSIBM	JSON_TABLE	Creates relational output from a JSON object
SYSIBM	JSON_EXISTS	Determine whether a JSON object contains the desired JSON value

Db2 11.1.4.4 - What makes these JSON SQL functions different/better?

Easier to use

- No need to qualify call to function or add SYSTOOLS to function path

- No need to grant EXECUTE privilege

Simpler and more flexible storage options

- You choose the stored format: JSON or BSON
- You choose the table organization: row or column
- You choose the column data type: BLOB, CHAR, CLOB, VARBINARY, VARCHAR

BSON/JSON conversion functions are now optional not mandatory


TRM

37

Db2 11.1.4.4 - HADR Read on Standby (RoS) – New in Db2 11.1.4.4



*Not supported on pureScale at this time

Db2 11.1.4.4 - Support for storage devices using 4K sector size

- Hard disk drive manufacturers have been moving the technology to a larger, more efficient sector size of 4096 bytes (4K sector)
 - Legacy sector size (512 bytes) was supported through emulation and transition was transparent to disk users
 - Recent products now only offer 4K sector size support
- This support can be enabled in Db2 by setting the DB2_4K_DEVICE_SUPPORT registry variable to ON
 - Try it out and let us know!

Current limitations:

- This feature is not supported for production use at this time
- This is a technology preview
- Not available on pureScale
- The use of DMS Raw containers is not supported
- There may be a performance penalty accessing:
 - LOB data stored on 512-byte sector storage
 - Backup or load copy files created prior to the enablement of 4K device support

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NEW!

Db2 11.1.4.4 - Follow "Code Patterns" to Build Cognitive Applications

CODE PATTERN | OCT 19, 2018

Train a cloudbased machine learning model using on-premise data

Get the Code » (Analytics) (Artificial Intelligence) + CODE PATTERN | OCT 22, 2018 Continuous learning with Watson Machine Learning and IBM Db2 Warehouse on Cloud

Get the Code » (Apache Spark) (Artificial Intelligence) + Train a cloud-based machine learning model from an onpremise database

build failing

Many companies and individuals struggle to use their on-premises data — the kind of data that lives on a local machine, within your data center, behind your firewall — for machine learning in the cloud. It can be challenging to find a quick, easy, and secure solution for connecting resources in a protected environment to resources in the cloud.

With Watson Studio & Machine Learning, Db2, and Secure Gateway, it is possible to establish a secure, persistent connection between your on-premises data and the cloud to train machine learning models leveraging cloud computing resources like Spark, elastic environments, and GPUs.

In this guide, we will create an on-premises Db2 database on our local computer, populate it, and then connect it to Watson Studio via Secure Gateway. Then, we'll read Buildings Violations data from this database and build a model to predict the likelihood that a particular building will FAIL an inspection based on historical data from the City of Chicago. After we build the model, we will deploy it as an API endpoint with Watson Machine Learning that only authorized users can access.





NEW!

Db2 11.1.4.4 - But wait, there's more!

Learn more about Db2 11.1.4.4 in the "Mod Pack and Fix Pack Updates" section

<u>https://www.ibm.com/support/knowledgecenter/en/SSEPGG_11.1.0/com.ibm.db2.luw.wn.doc/doc/c0061179.html</u>



Db2 11.5

•We plan to release a new version of Db2 in 2019

- Db2 11.1 will be 3 years old in 2019
- Db2 10.5 is EOS as of April 30, 2020

We will continue to follow the "continuous delivery" paradigm started with Db2 11.1

- Steady release of function through GA and subsequent modification updates

It will be still be version 11 – with a new release number – Db2 11.5

The Db2 11.5 - Lifecycle



Regular fix/mod pack deliveries (every 6-9 months)

- With overriding focus on stability for immediate deployment to production environments
- Modifications will contain select functional enhancements (often off by default)

Interim fix (aka "iFix") containing only critical fixes to last update released every 2-3 months until next update occurs

Db2 11.5 GA – Key Objective

With the introduction of Db2 VNext in 2019, all Db2 products will be based on the same level of the Db2 common SQL engine



Benefits for Db2 customers:

- Existing enhancements in Db2 Warehouse branch will become available to them
- Reduced latency between feature appearance in different Db2 products as development will all be on same level
 - Any enhancement that is "ready to go" for Db2 environments will appear in next Db2 update

Db2 11.5.0.0 GA - Summary

Planned content:

- Functionality available in the Db2 Warehouse family today:
 - External tables
 - Grooming for columnar tables
 - Reduced logging for columnar tables
 - Additional enhancements of interest
- New functionality
 - Simplified log management
 - Enhanced support for Currently Committed (CC) isolation on pureScale
 - Support for LOBs in columnar tables

Db2 11.5.0.0 GA - External Tables

A simple mechanism that lets you access external "files" within an SQL statement just like a table

- Can also be used to load from or unload to external files

- Can be used to define a permanent external table or directly within a SQL statement

Currently supports CSV/delimited files and local/remote sources

Example:

insert into orders (select * from ext_orders);

Example:

```
insert into orders (select * from external `/tmp/orders.txt' using(REMOUTESOURCE GZIP
delimiter `,'));
```

Db2 11.5.0.0 GA - Grooming for Columnar Tables

- When Automatic Dictionary Creation (ADC) is used, some portion of the data will be inserted before the dictionary is created
 - Grooming is focused on these uncompressed first portions of the data
- Grooming simply applies the compression dictionary to the first portion of the data that was uncompressed initially



Db2 11.5.0.0 GA - Reduced logging for columnar tables

- An enhanced solution to the same problem addressed by "Not Logged Initially" (NLI) tables
 - Inserting large amounts of data into a table without swamping the transaction logs
 - Table contents are preserved during rollback, crash recovery, and roll-forward recovery to END of online backup

• Unlike NLI, reduced logging is not implemented as a table property

- It is associated with any operation driving a large amount of insert work against a table and kicks in automatically after a certain amount of insert work has already occurred
 - Relevant operations include: INSERT, INGEST, MERGE, and UPDATE statements as well as CREATE TABLE AS DDL, etc.
- With this behaviour active, very large INSERTs are possible without running out of log space
 - Up to 95% less data logged!

Db2 11.5.0.0 GA - Additional Db2 Warehouse Enhancements

- Numerous performance and footprint enhancements for columnar table queries
 - The result of many Db2 Warehouse and IIAS customer engagements

Increased SQL compatibility for Netezza applications

– The result of building the IIAS appliance

Built-in database support for spatial analytics

- Better performance from built-in spatial procedures, functions, and views

Db2 11.5.0.0 GA - Simplified Log Management

- As part of a focus on simplifying log management, the first delivery will result from a focus on avoiding "log full" scenarios caused by long running, low volume transactions hold up log space
 - E.g. transactions that span multiple log files with little content in the intermediate files



Db2 11.5.0.0 GA - Simplified Log Management

 Solution is to extract log records for long running active transactions to a separate file and allow intermediate log files to be closed, archived, and reused



Db2 11.5.0.0 GA - Additional New Function of Interest

Support for LOB data type in columnar tables

– Will probably be exposed in Db2 Warehouse first prior to Db2 VNext GA

Enhanced support for Currently Committed (CC) isolation on pureScale

- No lock wait when log record on different member



Db2 11.5.1.1 - Modification 1 - Summary

Planned content:

- Functionality available in the Db2 Warehouse family today:
 - Schema level authorization
 - Adaptive WLM

Plus a number of proposed items...

Db2 11.5.1.1 - Modification 1 - Schema Level Authorization



Db2 11.5.1.1 - Modification 1 - Adaptive workload management (WLM)

- The "next generation" of Db2 workload management (WLM) whose objective is to deliver automatic workload management within Db2 that ensures system stability and responsiveness with zero tuning
 - Make sure that the system is well-utilized but don't let it become overcommitted
 - Schedule jobs appropriately to ensure fairness and appropriate responsiveness
- Adaptive WLM is currently being used as the default system behaviour within the entire Db2 Warehouse family including IIAS
 - The ability to customize with user definitions to be introduced to Db2 Warehouse in 2019



Db2 11.5.1.1 - Modification 1 - Adaptive WLM Performance Numbers

 Analytical workloads (BLU) performed at par or better with Adaptive WLM compared to default WLM configuration

- Since work is admitted into the system based on matching of CPU and memory needs versus current usage, processing of work is generally more efficient due to smoother, steadier consumption patterns
- System stability is maintained throughout





- Multiple stand-bys
- **R/W Active-Active**
- **Bi-directional R/W Active-Active**
- **Time Delay**
- Sub-setting
- Automatic Client Reroute
- Support for columnar
- **Reduced logging is automatically handled**

Note: Removal of bundled restricted licenses of IIDR occurs in "VNext"



Db2 11.5.1.1 - Modification 1 – Additional Content

- Completion of JSON ISO SQL function enhancements
- Support for triggers on columnar tables
- Support for system maintained temporal columnar tables
- And more being considered

Db2 11.5.x.x – Other Contributions

Adaptation and Integration of new technologies into the Db2 common SQL engine:

- Leveraging Machine Learning (ML) as part of Db2 optimization
- Exploring Natural Language Query (NLQ) within Db2

Focus on making life better for application developers work with Db2

- Introduction of support for new languages
- Introduction of server side REST API support
- Better integration with common developer environments



Db2 11.5.x.x - Db2 Graph Capability

Real time visualizations and modelling

Coming

Support graph queries and SQL on the same data

- A graph layer between graph applications and Db2
- No change to Db2 runtime for relational data
- Support open-source graph with Gremlin language & Tinkerpop framework
- Store graph data in tables, so that SQL engine can query them
- ACID transactions update the graph real-time without disturbing (huge number of) existing relational applications
 - Ability to view the graph real-time (as and when transactions happen)
- Also provide a graph view of data with Gremlin API
- Run SQL analytics on graph data, as SQL is fully operational on graph data

Db2 11.5.x.x - Natural Language Query (NLQ) Support New tool add on for data analysis

Eliminate the need to know ANSI SQL syntax

New!

- Conversational analytics is the future...
 - Alexa, Google Home, etc. prove trend
 - Natural extension of conversation to data
 - It is fast, accommodative, and can work with any schema / table
 - Covers most use cases for business users
- Free tool available to download from Developer Works
 - Currently in Beta
 - Seamlessly plugs and plays with Db2

Db2 11.5.x.x - Augmented Data Exploration Support New tool for rich and deeper insights

New!

Get to the insights faster – explore unfamiliar data sets

- Data scientists often face the challenge of exploring data sets that are not familiar to them
 - Time consuming
 - Not sure what to look for
 - Need some knowledge transfer or understanding of what is in the data set
- Need an intuitive data exploration tool
 - Provide multiple views of the data with minimal touch
- Free tool available to download from Developer Works
 - Currently in Beta
 - Seamlessly plugs and plays with Db2

Beta - Try out the new Db2 Augmented Data Explorer

https://www.ibm.com/us-en/marketplace/db2-augmented-data-explorer

IBM Augme	ented Data Discovery	
Q Discover data and	d insights	×
Steps to get started		
0)	Set up your database	Tell us where to find the data that you want to discover.
1010001101011 10101101000 101000 101000 101000 11 101000	Ask questions to your data	Using the search bar, start asking questions containing column names or field values " Average Sales by Region" " Average Profit for Northwest region where Sales > 10,000 " " Max Profit for all region and department "
	Discover and Refine	Discover through Visualization and Natural language insights $ \underbrace{\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$

Create

BR

Beta – Try out the new Db2 Augmented Data Explorer

https://www.ibm.com/us-en/marketplace/db2-augmented-data-explorer

Table : Monthly Sales 2018 - Last Cached : 2 days ago O



Avg Sales of my Products by customer age and customer satisfaction No match found

Answer known and unknown questions

No single data set can answer your question. Create one now?

Sales Contribution by Product		Avg Sales by Product
9,204 Junior	• 52.4%	

Quick View				
You might be interested in this ?				
Average Sales by Product by Region				
Average Sales by Product by Gender				
Average Sales by Product by Year				

More Information - Follow our plans using Aha http://ibm.biz/AnalyticsRoadmaps

- We revisit development priorities frequently (e.g. every quarter) in response to customer and market demand/feedback
 - As a result: some items move up, some down, some in, and some out.
- We have committed to keeping our core roadmaps visible to the public eye using Aha

Doz Houdinap

Distributed Platforms



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More Information - Try out the new capabilities before they GA! <u>http://ibm.biz/DB2-EAP</u>

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Search Q 8 =

IBM Analytics > Technology > Data and content management > Db2 > Early Access Program >

Db2 Early Access Program

👃 Download Now

The Early Access Program offers a sneak peek at next generation IBM Db2 technology. Take this opportunity to shape the future of Db2, test integration with your existing infrastructure, and be part of the community that makes Db2 great.



Shape the future of Db2

Provide feedback and shape the world's most advanced database software. We are constantly improving and innovating

Be Part of a Community

Join our community of business leaders, developers, and enthusiasts that is the Db2 Early Access Program community.

Gain Early Access

Be one of the first customers to use next generation Db2 software. Whether you are upgrading from Db2 10.x or 9.x, or

More Information - IBM Db2 Developer Community Edition http://lbm.biz/Db2devc

Docker-based offering for small PoCs and "trial" production systems

- Also offered as a traditional Db2 installation: Db2 Developer-C Community Edition

Highlights:

- Free, fully-functional version of Db2
- Includes all Db2 features such as compression, BLU Acceleration
- Supports all Db2 configurations including pureScale and DPF
- You can use it for development, test, or production !

Primary restrictions:

- No support/warranty
- Environment limited to:
 - 4 cores with 16GB of memory
 - 100GB per database



More Information - Stay current with Db2 updates

Passive

- Browse the list of available fix packs
 - <u>http://www-01.ibm.com/support/docview.wss?rs=71&uid=swg27007053</u>
- Security Vulnerabilities, HIPER and Special Attention APARs fixed in DB2 for Linux, UNIX, and Windows Version 11.1
 - <u>https://www-01.ibm.com/support/docview.wss?uid=swg21994955</u>

Proactive

- Go to the IBM Support page and sign up for "My notifications"
 - <u>http://www-01.ibm.com/software/support/einfo.html</u>

Sign up to stay informed of critical IBM software support updates with My notifications.

- Take a proactive approach to problem prevention.
- Receive support content tailored to your needs, delivered directly to you!
- Receive immediate notifications of Security Bulletins and Flashes.
- Receive daily or weekly notifications of technical support information such as downloads, tips, technical notes, and publications.

IDUG Europe 2019

- Location: Rotterdam, The Netherlands
- Date: Sunday, October 20 Thursday, October 24
- You can now use your IBM services & education funding budget to attend IDUG



Questions?

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IBM. 🎸

Les King Director, Hybrid Data Management Solutions <u>lking@ca.ibm.com</u> ca.linkedin.com/pub/les-king/10/a68/426 May, 2019

The AI Ready Platform for Managing all your Data

