

DB2 – Ultimate Database for Cloud, Analytics and Mobile
Industry-leading performance, security, scale and reliability



Looking to upgrade to DB2 11? Get a head start and brush-up your skills, knowledge, experience and GET Certified for DB2 11:

Kurt Struyf
Lone-star Consulting



Introduction



Objective

This presentation will focus on the specifics of DB2 11 for z/OS and the skills needed to certify as DB2 professional .

Kurt Struyf
IBM Gold Consultant
Lone Star Owner

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Agenda

- **Why getting certified**
 - business reasons
 - personal reasons
- **How to get certified**
 - where can you take the exams
 - which exams exists
 - how to prepare
- **What to expect when taking a DB2 for z/OS exam**
 - how the different tests are made up
 - what type of questions (not) to expect
 - Sample questions
- **Questions**

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Why getting certified ?

- **Business reasons**

- Service companies sometimes need certifications to get the contract.
- Certification might be a KPI for your company
- Partnerships with IBM or other vendors.
- Consultants with certificate are more likely to get a job.

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Why Getting certified?

- **Personal reasons**
 - At the end of a training, check how well you understood everything
 - Without preparing to test your current skill level/find areas to improve
 - Receive a bonus/compensation/promotion
 - Looks good on a resume

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How to get certified

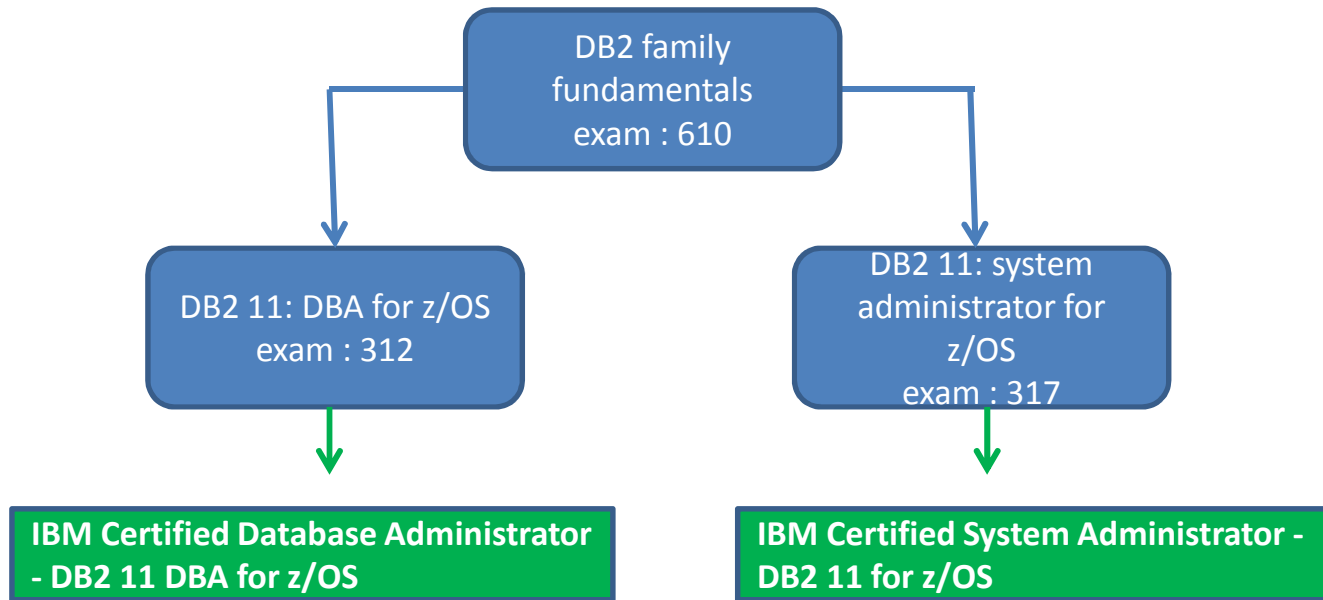
- **Where can I take the certification exams ?**
 - At any IDUG (North America, EMEA or Australasia) find out more about dates and venues www.idug.org
 - At Insight (previously IOD) in Las Vegas
<http://www-01.ibm.com/software/events/insight/>
 - On request, register and contact
<http://www.pearsonvue.com/ibm/>

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- Always need photo ID
- Same test can only be taken twice in 30 days

How to get certified

- DB2 for z/OS certificates



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How to get certified

- **How to prepare ?**
 - General DB2 education (IBM, education partners, independent trainers)
 - Information at IDUG/Insight and other conferences
 - Regional user groups
 - Hands on experience
 - Specific certification crammer courses at IDUG Conferences

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What to expect when taking a DB2 for z/OS certification exam

- <http://www-03.ibm.com/certify/certs/08002305.shtml>
- <http://www-03.ibm.com/certify/tests/objC2090-317.shtml>

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What to expect when taking a DB2 for z/OS certification exam

- General questions ,not exception on exception
- Use questions, not syntax questions
(note certain syntax knowledge will be required but won't be used to trip you up)
- Mostly positive phrased questions, but always read questions carefully
- Features of latest release get some extra attention
- When unsure mark question for review

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DB2 family fundamentals (exam 610)

- **Family fundamentals**
 - DB2 for LUW
 - DB2 for z/OS
 - General relational data base questions
- **Start to any DB2 certification**
 - Number of questions: 69
 - Devided in 6 sections
 - Time allowed in minutes: 90
 - Required passing score: 66% (46 questions)
 - Languages: English, Japanese

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DB2 family fundamentals (exam 610)

- Section 1 - Planning (10%)
- Section 2 - Security (15%)
- Section 3 - Working with Databases and Database Objects (20%)
- Section 4 - Working with DB2 Data using SQL (20%)
- Section 5 - Working with DB2 Tables, Views and Indexes (22%)
- Section 6 - Data Concurrency (13%)

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DB2 family fundamentals (exam 610)

- **Section 1 - Planning (10%)**
 - Knowledge of DB2 products (z/OS vs LUW vs pureScale - at a high-level; different products and what they do)
 - Knowledge of database workloads (appropriate DB2 product to use - OLTP vs warehousing)
 - Knowledge of non-relational data concepts (XML data, LOB data)
- **Section 2 - Security (15%)**
 - Knowledge of restricting data access
 - Knowledge of different privileges and authorities
 - Given a DCL SQL statement, knowledge to identify results (grant/revoke/connect statements)
 - Knowledge of Row and Column Access Control (RCAC)
 - Knowledge of Roles and Trusted Contexts

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DB2 family fundamentals (exam 610)

- **Section 3 - Working with Databases and Database Objects (20%)**
 - Ability to create and connect to DB2 servers and databases (requirements to give ability to connect)
 - Ability to identify DB2 objects
 - Knowledge of basic characteristics and properties of DB2 objects
 - Given a DDL SQL statement, knowledge to identify results (ability to create objects)
 - Knowledge of Temporal (Time Travel) Tables - System-period, Application-period, and Bi-temporal - ability to create (Greater precision time stamps)
- **Section 4 - Working with DB2 Data using SQL (20%)**
 - Ability to use SQL to SELECT data from tables
 - Ability to use SQL to SORT or GROUP data
 - Ability to use SQL to UPDATE, DELETE, or INSERT data
 - Knowledge of transactions (i.e., commit/rollback and transaction boundaries)
 - Ability to create and call an SQL supported procedure or a user defined function (understanding of passing parameters and results)
 - Given an XQuery statement, knowledge to identify results
 - Knowledge of Temporal (Time Travel) Tables - System-period, Application-period, and Bi-temporal - ability to query

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DB2 family fundamentals (exam 610)

- **Section 5 - Working with DB2 Tables, Views and Indexes (22%)**
 - Ability to demonstrate usage of DB2 data types (XML data types, Oracle compatibility data types)
 - Given a situation, ability to create a temporary table
 - Knowledge to identify when referential integrity should be used
 - Knowledge to identify methods of data constraint
 - Knowledge to identify characteristics of a table, view or index
 - Knowledge to identify when triggers should be used
 - Knowledge of schemas
- **Section 6 - Data Concurrency (13%)**
 - Knowledge to identify factors that influence locking
 - Ability to list objects on which locks can be obtained (lock table)
 - Knowledge to identify characteristics of DB2 locks (common locks shared across platforms)
 - Given a situation, knowledge to identify the isolation levels that should be used (currently committed)

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DB2 Family Fundamentals (exam 610)

- Sample questions

Which of the following is true about XML columns?

- a. XML columns are used to store XML documents as a hierarchical set of entities.
- b. Only Xquery can be used to retrieve an XML document from an XML column.
- c. XML columns must be altered to accommodate additional parent/child relationships if they are used in referential constraints.
- d. In order to access any portion of an XML document stored in an XML column, the entire document must be retrieved

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DB2 Family Fundamentals (exam 610)

- Sample questions

Which product must be installed on z/OS to allow a COBOL program running on that machine to access data on a remote DB2 for z/OS server?

- a. DB2 for z/OS
- b. DB2 Run-Time Client for z/OS.
- c. DB2 Connect Enterprise Edition for z/OS.
- d. z/OS Application Connectivity to DB2 for z/OS

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DB2 Family Fundamentals (exam 610)

- Sample questions

Which of the following tools can be used to schedule a backup operation that is to run every Sunday night?

- a. Journal
- b. Task Center
- c. Activity Monitor
- d. Command Line Processor

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DB2 Family Fundamentals (exam 610)

- Sample questions

Which of the following will DELETE all the rows from table T03?

- a. DELETE * FROM TABLE T03
- b. DELETE ALL FROM T03
- c. DELETE * FROM T03
- d. DELETE FROM T03

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DB2 Family Fundamentals (exam 610)

- Sample questions

When does a view get populated ?

- a. When it is created
- b. When it is referenced in an INSERT statement
- c. The first time any executable SQL statement references it
- d. Any time an executable SQL statement references it

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DB2 family fundamentals (exam 610)

- Find all the official information on <http://www-03.ibm.com/certify/tests/ovrC2090-610.shtml>

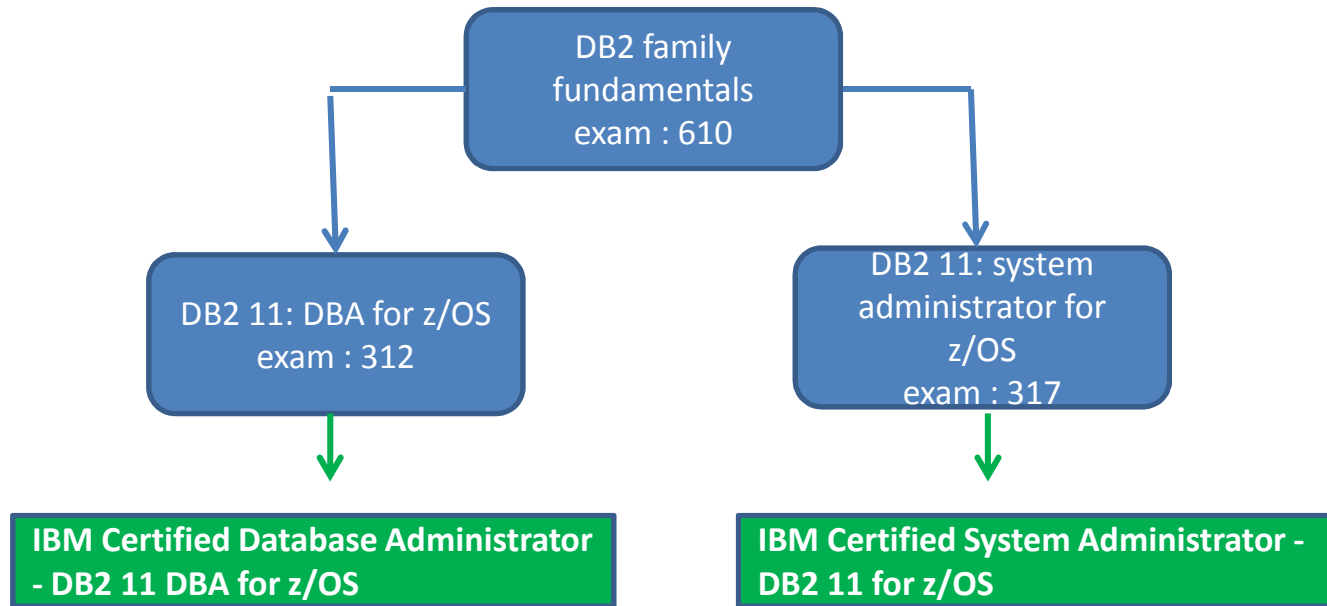
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How to get certified

- DB2 for z/OS certificates



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DB2 11: DBA for z/OS (exam 312)

- Together with family fundamentals will earn you the certificate of
IBM Certified Database Administrator
- DB2 11 DBA for z/OS
- **Only on DB2 for z/OS**
 - Number of questions: 67
 - Divided in 7 sections
 - Time allowed in minutes: 90
 - Required passing score: 59%
 - Test languages: English

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DB2 11: DBA for z/OS (exam 312)

- Section 1 - Database Design and Implementation (24%)
- Section 2 - Operation and Recovery (22%)
- Section 3 - Security and Auditing (6%)
- Section 4 - Performance (22%)
- Section 6 - Additional Database Functionality (10%)
- Section 7 - Distributed Access (7%)

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DB2 11: DBA for z/OS (exam 312)

- **Section 1 - Database Design and Implementation (24%)**
 - Design tables and views
 - Explain the different performance implications of identity column, row ID, and sequence column definitions (applications, utilities), hash access
 - Design indexes
 - Design table spaces
 - Perform partitioning
 - Normalize data (E-R model, process model) and translate data model into physical model (denormalize tables)
 - Implement user-defined integrity rules
 - Use the appropriate method to alter DB2 objects
 - Understand impacts of different encoding schemes

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DB2 11: DBA for z/OS (exam 312)

- **Section 2 - Operation and Recovery (22%)**

- Knowledge of commands for normal operational conditions (START, STOP, DISPLAY)
- Knowledge of commands and utility control statements for use in abnormal conditions (RECOVER, RESTART)
- Load and unload data into and from the created tables
- Reorganize objects when necessary
- Monitor the object by collecting statistics
- Monitor and manage threads and utilities (distributed, local, MODIFY DDF)
- Identify and respond to advisory/restrictive statuses on objects
- Identify and perform problem determination (traces and other utilities, plans and packages)
- Perform health checks (check utilities, offline utilities, catalog queries)
- Identify and perform actions that are needed to protect databases from planned and unplanned outages
- recovery scenarios

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DB2 11: DBA for z/OS (exam 312)

- **Section 3 - Security and Auditing (6%)**
 - Understanding privileges and authorities
 - Protect access to DB2 and its objects
 - Audit DB2 activity and resources and identify primary audit techniques
 - Identify and respond appropriately to symptoms from trace output or error messages that signify security problems

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DB2 11: DBA for z/OS (exam 312)

- **Section 4 - Performance (22%)**

- Plan for performance monitoring by setting up and running monitoring procedures (continuous, detailed, periodic, exception)
- Analyze performance (manage and tune CPU requirements, memory, I/O, locks, response time, index and table compression)
- Analyze and respond to RUNSTATS statistics analysis (real-time, batch, catalog queries, reports, histograms)
- Determine when and how to perform REBIND (APCOMPARE and APREUSE)
- Describe DB2 interaction with WLM (distributed, stored procedures, user-defined functions, RRS)
- Interpret traces (statistics, accounting, performance) & explain the performance impact of different DB2 traces
- Identify and respond to critical performance metrics (excessive I/O wait times, lock-latch waits and CPU waits; deadlocks, timeouts, RID failures)
- Review and tune SQL (access paths, EXPLAIN tables, awareness of query transformation and predicate processing, use of Virtual Indexes)
- Dynamic SQL Performance (DSN_STATEMENT_CACHE_TABLE, parameter markers, literal replacement, REOPT)
- Design features for performance (hash row access, inline LOBs)
- Knowledge of controlling access paths (SYSSTATSFEEDBACK table, SYSQUERY)

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- **Section 5 - Installation and Migration / Upgrade (7%)**
 - Knowledge and understanding of the critical ZPARMs (database-, object- and application-oriented, application compatibility - no DDF)
 - Identify and explain Datasharing components and commands
 - Knowledge of pre-migration checklists
 - Knowledge of catalog and directory (new tables, change tables, new objects)
- **Section 6 - Additional Database Functionality (10%)**
 - Knowledge of SQL constructs (temporal, archive, table functions, built-in scalar functions, recursive, common table expressions)
 - Knowledge of SQL/PL (Array data type, new array data type functions, functions and procedures)
 - Knowledge of SQL/XML (results database, XML functions, cross loader with XML, xpath expressions, FLWOR, pattern matching and regular expressions)
 - Knowledge of Stored Procedures (native, external, autonomous, zipl considerations)
 - Knowledge of User-defined functions (scalar functions, table functions, SQL/external functions)
 - Knowledge of global variables (in stored procedures, in SQL/PL, distributed considerations)

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- **Section 7 - Distributed Access (7%)**
 - Implementing distributed data access (communications database)
 - Knowledge of ZPARMs (for DDF)
 - Knowledge of DDF setup (DB2 Connect, Client, Drivers, profile tables, RLMT)
 - Understanding and implementing distributed data access (performance settings for DDF access)

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DB2 11: DBA for z/OS (exam 312)

- **Sample questions**

What is the least disruptive way of externalizing real time statistics for table space DB1.TS1?

- a. -SET LOG LOGLOAD(0)
- b. -DISPLAY DB(DB1) SPACENAM(TS1)
- c. RUNSTATS TABLESPACE DB1.TS1
- d. -ACCESS DB(DB1) SPACENAM(TS1) MODE(STATS)



DB2 11: DBA for z/OS (exam 312)

Given these statements:

```
RUNSTATS TABLESPACE DB1.TS1 RESET ACCESSPATH  
HISTORY ACCESSPATH
```

Which statement is FALSE ?

- a. It resets all real-time statistics (RTS) for DB1.TS1
- b. It resets all access path statistics for DB1.TS1 in catalog.
- c. It invalidates the dynamic statement cache for table space DB1.TS1
- d. It externalizes current access paths statistics for DB1.TS1 to HIST catalog tables

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DB2 11: DBA for z/OS (exam 312)

Which SQL statement would create a valid INCLUDE index ?

- a. CREATE UNIQUE INDEX IXA
ON TESTTAB(COL1)
INCLUDE(COL5)
- b. CREATE INDEX IXB
ON TESTTAB(COL3+COL4)
INCLUDE(COL5)
- c. CREATE INDEX IXC
ON TESTTAB(COL6) CLUSTER
INCLUDE(COL5)

d. CREATE INDEX IXD

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DB2 11: DBA for z/OS (exam 312)

- Find all the official information on <http://www-03.ibm.com/certify/tests/ovrC2090-312.shtml>

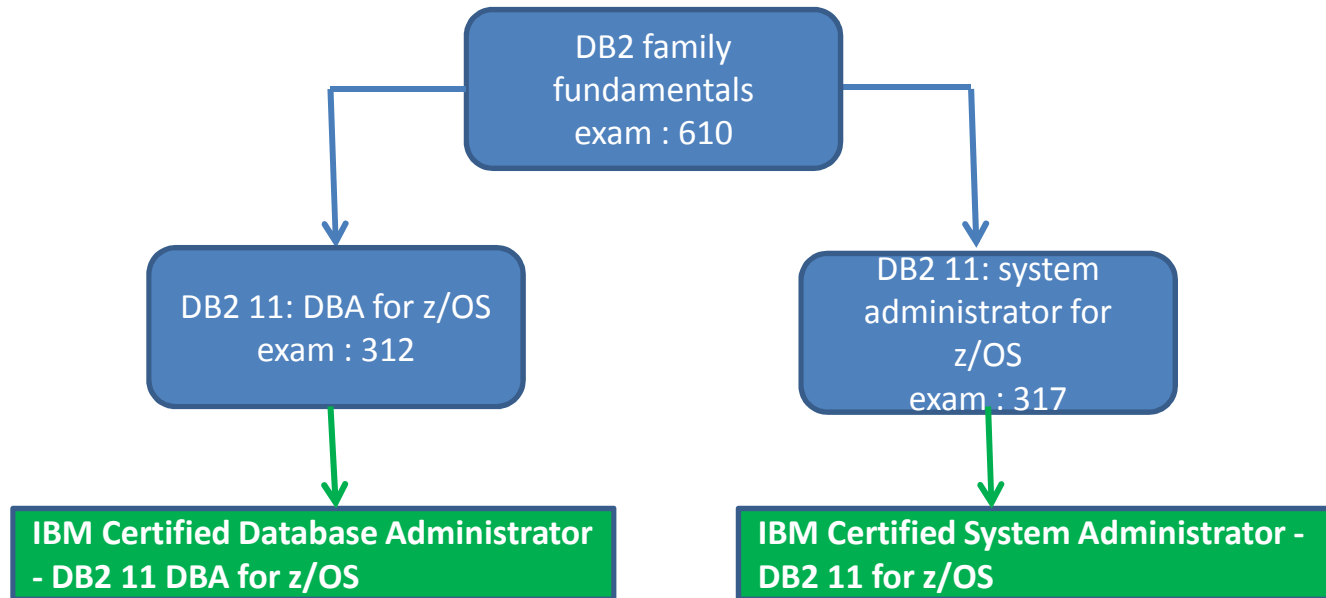
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How to get certified

- DB2 for z/OS certificates



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DB2 11: system administrator for z/OS (exam 317)

- Together with family fundamentals will earn you the certificate of **IBM Certified System Administrator - DB2 11 for z/OS**
- Only on DB2 for z/OS
 - Number of questions: 58
 - Divided into 6 sections
 - Time allowed in minutes: 90
 - Required passing score: 65%
 - Languages: English

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DB2 11: system administrator for z/OS (exam 317)

- Section 1 - Installation and Migration (20%)
- Section 2 - Security and Auditing (12%)
- Section 3 - System Operation and Maintenance (17%)
- Section 4 - Backup and Recovery (17%)
- Section 5 - Performance and Tuning (21%)
- Section 6 - Troubleshooting (13%)

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DB2 11: system administrator for z/OS (exam 317)

- **Section 1 - Installation and Migration (20%)**
 - Given a scenario, demonstrate knowledge of the installation/migration plan process
 - Ability to identify additional environments necessary (WLM, Unix system services, XML schema support, RACF or equivalent, SMS)
 - Given a scenario, describe how to execute the installation/migration plan
 - Evaluate appropriate subsystem parameter (DSNZPARM) settings
 - Evaluate appropriate migration to extended RBA/LRSN tasks

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DB2 11: system administrator for z/OS (exam 317)

- **Section 2 - Security and Auditing (12%)**

- Given a scenario, demonstrate knowledge of how to protect DB2 subsystem and resources
 - Knowledge of various System authorities
 - Support for distributed identities, connection level security enforcement
 - Program authorization and masking including enhancements
- Describe auditing techniques (policies)
- Describe role-based security and the advantage of deploying it (trusted context)

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DB2 11: system administrator for z/OS (exam 317)

- **Section 3 - System Operation and Maintenance (17%)**
 - Describe how to use and manage DB2 components and processes (administrative task scheduler) (REPAIR, STOSPACE, DSNJU003, DSN1COMP)
 - Demonstrate knowledge of DB2 commands
 - Given a scenario, describe how to monitor and control DB2 threads
 - Knowledge of DB2 data sharing system operation and maintenance
 - Knowledge of distributed functionality

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DB2 11: system administrator for z/OS (exam 317)

- **Section 4 - Backup and Recovery (17%)**

- Demonstrate knowledge of advanced backup and recovery (system level, data set level, undo, redo, backup, flash copy, DSS, HSM, DSNJU004, DSN1COPY, DSN1LOGP, DSN1PRNT, Extended RBA, etc.)
- Given a scenario, describe how to recover from system failures (restart, conditional restart)
- Describe the process for disaster recovery
- Describe DB2 data sharing recovery scenarios
- Knowledge of consideration/impact of extended and non-extended RBA/LRSN tasks

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DB2 11: system administrator for z/OS (exam 317)

- **Section 5 - Performance and Tuning (22%)**

- Given a scenario, analyse performance
- Demonstrate knowledge of how buffer pools and system parameters (DSNZPARMs) can affect performance - concurrency
- Demonstrate knowledge of persistence threads (bind parameters, reallocate, protected threads)
- Demonstrate knowledge of statistics, tools, and traces used for monitoring (trace definitions)
- Given a scenario, describe techniques to achieve efficient use of memory (flash memory, large buffer pools) Statement Cache (Dynamic, Static, EDM Pool)
- Demonstrate knowledge of workload manager (WLM) settings for DB2
- Knowledge of RUNSTATS (autonomic, manual, RTS, and feedback)
- Knowledge of Reorg in the context of system tuning and performance (system level settings, subsystem parameters, reduction of indirect references)
- Knowledge of specialty engines and how they affect performance (ziips)

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DB2 11: system administrator for z/OS (exam 317)

- **Section 6 - Troubleshooting (13%)**

- Given a scenario, describe which documentation can be used to solve a problem
- Demonstrate knowledge of DB2 commands and traces for troubleshooting
- Describe how to identify distributed threads
- Demonstrate knowledge of diagnostic utilities (REPAIR, DSNJU003, DSN1CHKR)
- Given a scenario, identify and resolve DB2 data sharing problems

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DB2 11: system administrator for z/OS (exam 317)

- Sample questions

Which statement regarding migration from DB2 10 for z/OS to DB2 11 for z/OS is true?

- a. The DB2 catalog and directory must be changed to reside on SMS managed DASD
- b. All packages must be rebound with application compatibility set to V10R1
- c. All packages last bound in DB2 9 for z/OS or earlier must be rebound in DB2 10 or DB2 11
- d. The size of the DB2 bootstrap datasets must be increased to accommodate a larger LRSN and RBA length

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DB2 11: system administrator for z/OS (exam 317)

- Sample questions

Which statement is true regarding DB2 definitions for SMF collection ?

- a. SMF collection is not required for DB2
- b. At the minimum a DB2 statistics class 1 trace is required.
- c. By default, DB2 is set to record accounting classes 1,2,3 to SMF
- d. The SMF subsystem does not have to be active for DB2 to write SMF trace records.

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DB2 11: system administrator for z/OS (exam 317)

- Sample questions

Which two features are the motivation behind the conversion to be extended RBA/LRSN format? (Choose two)

- a. Greater RECOVER utility concurrency.
- b. Reduction of the potential for an RBA rollover.
- c. More precise PIT recovery of the DB2 system catalog and directory.
- d. Potentially faster UPDATE performance due to greater LRSN granularity
- e. Reduced p-lock contention in the coupling facility due to greater LRSN granularity

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Summary

- Certification can be important for you and your organization
- Certification exists both for DB2 on LUW and DB2 for z/OS
- Get training at IDUG, Insight, education centers, specialized certification classes.

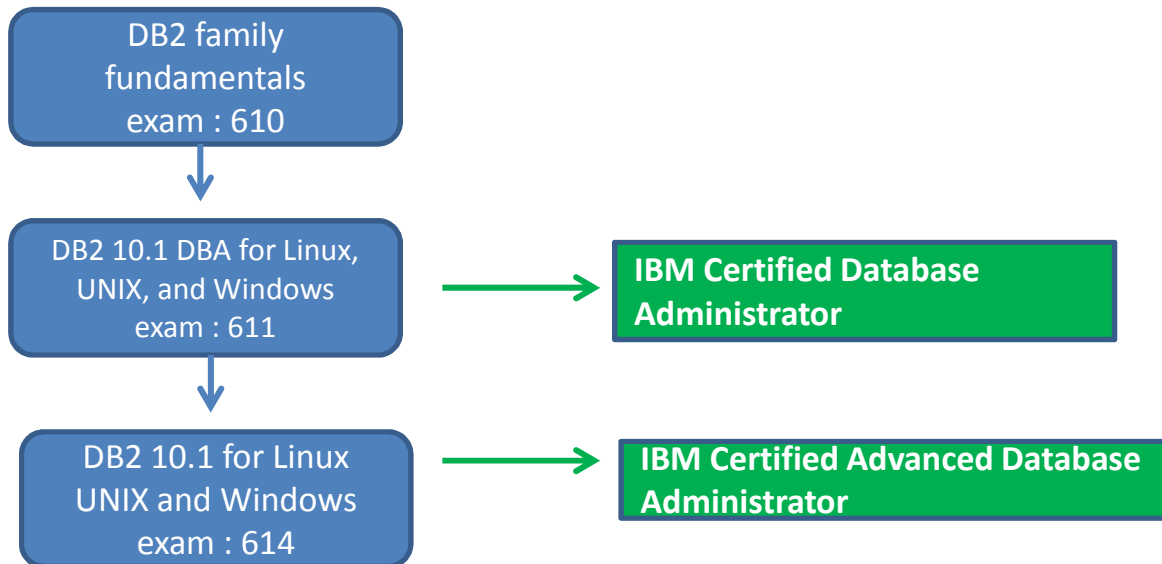
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How to get certified

- DB2 for LUW certificates



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Questions ?

- Should you be interested in DB2 education in general or certification training in specific.
Send a mail to :

Kurt.Struyf@lone-star.be

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