

Db2 Performance

for

-  **System Programmers**
-  **Database Managers**
-  **Database Administrators**

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1 Objectives of the training module

The goal of the module is to give participants an understanding of performance aspects in a Db2 environment.

2 Boundary Conditions / Prerequisites

Basic knowledge of mainframe architecture is required. In addition, the handling of TSO / ISPF / JCL and SDSF.

Participants will be provided with access to the EMA's current z/OS system for the duration of the training. This access is also available after completion of the training. The EMA guarantees this access for at least three months after the end of the training.

Access is possible via **VIRTEL**, which means that no 3270 emulation needs to be installed to access the EMA system. Access is possible via any browser.

For the duration of the course, participants will have a course area set up on the EMA's learning platform, through which documents will be made available, and a forum will be set up so that questions can be asked and discussions can be held at any time.

Documents and slides from the EMA are used as accompanying material. In addition, other resources (e.g. references, Redbooks, etc.) are provided.

3 Db2 Performance

Content

Monitoring and simulation

- Overview of monitoring
- Bufferpool sizing
- RTS analyzer and optimizer feedback

Explain

- Explain statement
- Filter factor
- Index optimization

Stability techniques

- Access path stability
- Dynamic plan stability

Tracing

- Accounting
- Performance
- Profiling

Storage optimization

- DPSI (Data Partitions Secondary Index)
- Compression
- Partitioning
- Page size

Application optimization

- Access path
- Locking
- Runstats / rebind

SQL optimization

- Statement redesign
- MQT
- Trigger
- UDFs