IBM <mark>Information Management</mark> **software**

IBM DB2 Cloning Tool for z/OS, Version 1.1

Highlights

- ■ *Reduce time needed to create usable DB2® subsystem clones*

- ■ *Automate DB2 cloning processes using any storage- or software-based copy technology*

- ■ *Improve performance by offloading read-only access users to a DB2 clone*

- ■ *Meet 24x7 data access demands by using a cloned environment equivalent to production quality*

- ■ *Simulate desired results without spending time to run costly updates*

Automate the cloning process

For those who work with databases, clones are an increasingly used convenience. The growing demand for clones is due to the need for up-to-date test environments for improved quality assurance. IBM DB2 Cloning Tool for z/OS® can automate the cloning process to provide usable DB2 clones within minutes, thus freeing database administrators (DBAs) from performing a time-consuming multistep process.

Business demands make frequent application updates a necessity for DBAs today. Testing against old data can lead to problems once updates are rolled out into production.

Using clones with up-to-date data can provide faster problem resolution if problems with production data are encountered. DB2 Cloning Tool can reduce the time required to create a clone from hours or even days to minutes.

Upgrade to new DB2 versions with confidence

It's easier to upgrade to new versions of DB2 when you can test the upgrade and applications on a clone before

moving the production system to the new DB2 version. Clones are complete subsystems, and you can query a clone even when the online system is down. This provides you with greater availability and helps you be more productive.

Flexible software solution

DB2 Cloning Tool can be installed on any mainframe running z/OS. As a result, any software-based or storage-based volume-level copy technology such as IBM FlashCopy® can be used with the DB2 Cloning Tool.

After you have selected the copy technology for creating the clone, DB2 Cloning Tool automates the actual process that results in a clone of the DB2 subsystem.

Making copy problems go away

Copy tools have inherent problems, even though some can create copies very quickly. DB2 Cloning Tool handles all of the following problems:

- • *If the source volume label is retained on the target and the target volume is varied offline by the system, DB2 Cloning Tool renames the volume and data sets, and brings the target volume back online on the same image*

- *If the target volume label is retained and the target volume stays online, DB2 Cloning Tool renames the data sets, allowing the target volume to be used on the same image*
- *DB2 Cloning Tool resolves all internal data conflicts —VTOC, VTOCIX and VVDS —that are a replica of the source volume names.*

Gain performance improvements

When read-only users work with clones instead of production data, much-needed performance improvements result. If it takes weeks to create the clones, the read-only users will not be able to rely on the validity of the data. This will force the users back to the production data, negating the performance improvements gained.

DB2 Cloning Tool can automate the cloning of DB2 subsystems in either an offline or online environment, giving you both flexibility and increased availability.

The tool updates the DB2 internal control information in the Bootstrap Data Set (BSDS), as well as in the directory and the DB2 catalog to reflect the target DB2 subsystem names quickly and efficiently. The speed with which DB2 Cloning Tool handles the cloning process is the key to saving time and reducing costs.

DB2 Cloning Tool supports the cloning of multiple DB2 data-sharing groups and non-data-sharing DB2 subsystems. Additionally, with a few simple commands, the number of DB2 data-sharing members can be reduced, or data sharing groups can be changed to non-data sharing groups.

Increase availability

In a 24x7 environment, bringing an online system down for maintenance negatively impacts business. DB2 Cloning Tool helps make it possible for end users and customers to have virtually unlimited access to their data by using a DB2 clone to test data or create data warehousing systems.

Validate cloning results

The ability of DB2 Cloning Tool to simulate a cloning activity without initiating the copy gives you an easy way to find out exactly what would be modified if the update actually ran.

This feature also lets you:

- *Verify syntax, match source to target volumes and display DSS COPY FULL commands, without initiating the copy operations.*
- *Perform masking comparisons to both catalog and volume records to detect a wide range of problems such as incomplete renaming of VSAM spheres and multivolume data sets not wholly contained in the volume list.*

DB2 Cloning Tool for z/OS helps DBAs save time and improve performance by making it easy and fast to create DB2 clones. DB2 Cloning Tool for z/OS, Version 1.1, supports DB2 for z/OS, Version 7 and later.

For more information

Please contact your IBM representative or IBM Business Partner or visit:

ibm.com/software/data/db2imstools

When ordering DB2 Cloning Tool for z/OS, Version 1.1, please refer to the following program number: 5655-N10