Instant CloningExpert for DB2 z/OS

For Homogeneous System and Object Copies

TAKE CONTROL.

- Automate and speed up cloning
- Eliminate error-prone manual processes
- Create quality environments that replicate production
- Support 24 x 7 uninterrupted access to data
- Clone entire subsystems or just the data
- Refresh and merge clones

Instant CloningExpert (ICE) automates and controls the processes required to create a homogeneous system copy or to clone DB2 objects. It addresses and solves all common problems incurred when creating such copies. ICE allows you to fully exploit instant copies like ESS FlashCopy, Timefinder, and Snapshot.

Cloning is used for duplication of subsystems or duplication of parts of subsystems (data only or system only). A few of the top reasons for cloning are:

- Testing and quality assurance, or for backup.
- Subsystem creation, audit, reporting, and data mining.
- Subsystem migration and consolidation.

Homogeneous means that the operating system and the database of the source and target systems are identical. In other words, a cloned system is an exact replica of a source system. Often, such a cloned system is used as a so-called "sand box" in which applications can be tested.

There are many problems with cloning. And, with ICE, there are solutions:

- Data set name duplicates (if on the same system)
  → With ICE: Super fast low level renaming is made possible.
- Subsystem parameters, in built "names" VCAT, etc.
  → With ICE: XML user exits for all parameters.
- Manual interventions in a precise order.
  → With ICE: XML user exits for external event triggering.
- Complex technical processes and instructions.
  → With ICE: Automated step-by-step customizable system.
- Lots of time because cloning without a tool can take days.
  → With ICE: Its fast!

Cloning with **Instant CloningExpert** accomplishes in minutes what might otherwise take days to do.

FEATURES

Data sharing to data sharing
Non-data sharing to non-data sharing
Data sharing to non-data sharing, and vice versa
Between different DB2 versions, e.g., from V8 to V9 and from V9 to V8.
Fully customizable to fit any environment

Unlike other replication tools, ICE also supports internal volume names, volume internals, and different naming conventions for different systems. While some have built-in technology for this, many manual actions are still required without proper control and automation offered by ICE.

ICE supports two methods of cloning with:

Homogeneous System Copies (HSC) clones an entire DB2 subsystem with load libraries and supports extremely fast low level renaming and XML exits. HSC supports every way of cloning, both online or offline:

- Data sharing to data sharing
- Non-data sharing to non-data sharing
- Data sharing to non-data sharing, and vice versa
- Data sharing x members to data sharing y members.
- Cross version migration, if load libraries are copied.

Homogeneous Object Copies (HOC) clones just the data. HOC clones either single objects or groups of objects using one of the following methods:

- Object data extract from a source and generation of DDL to run on the target DB2 subsystem using a high speed DSNTIAD. The HOC component supports inclusions and exclusions, as well as renaming rules.
- Data copy using DSN1COPY based on DB2 SHRLVL Reference copies or DB2 clusters.

Instant CloningExpert for DB2 z/OS accomplishes in minutes what might otherwise take days to do. Therefore, the effort to create and maintain a cloned system that reflects a production system can be an automated process that can easily be done on a regular basis.

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