

# Instant CloningExpert for Db2 z/OS

Fast, Flexible, and Efficient

Automate and speed up cloning

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Eliminate error-prone manual processes

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Increase cloning speed by 20 times

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Create quality environments that replicate production

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Support 24x7 uninterrupted access to data

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Clone entire subsystems or just the data

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Refresh and merge clones

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Instant Cloning as option to manage Continuous Delivery Deployment with **CDDC for Db2 z/OS**

- allows clone based code level checks for the most comprehensive scope

- covers testing for:

- Code level
  - Catalog Level
  - Function Level
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**Instant CloningExpert** (ICE) automates and controls the processes required to create a homogeneous system copy or to clone Db2 objects. It addresses and solves most common problems incurred when cloning. 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, quality assurance, or backup purposes.
- Subsystem creation, audit, reporting, and data mining.
- Data warehousing.
- Subsystem migration and consolidation.

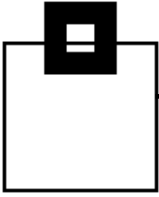
Homogeneous means that the operating system and the database of the source and target systems are identical. In other words, a cloned system is an exact replica of a source system. Often, such a cloned system is used as a so-called "sand box" in which applications can be tested.

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

- Data set name duplicates (if on the same system).  
→ With ICE: Super fast, low-level renaming is made possible (FAST RENAME).
- Subsystem parameters, built-in "names" VCAT, etc.  
→ With ICE: XML controlled processing flow with user exits for all parameters (XML-Commander).
- Manual interventions in a precise order.  
→ With ICE: XML controlled processing flow with 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: It is fast!

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 the proper control and automation offered by ICE.

Cloning with **Instant CloningExpert** accomplishes in minutes what might otherwise take days to do. *20 times faster!*



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## Data sharing to data sharing

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## Non-data sharing to non-data sharing

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## Data sharing to non-data sharing, and vice versa

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## Between different Db2 versions, e.g., from V12 to V13.

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## Cross object cloning verification of RBA format

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## Extended RBA/LRSN support

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## Dynamic Location Alias support

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## Fully customizable to fit any environment

ICE supports two methods of cloning:

*Homogeneous System Copies (HSC)* clones an entire Db2 subsystem with load libraries (optional) and supports extremely fast low level renaming and XML controlled processing flow with user 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 cloning if load libraries are copied.

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

- Generation of DDL to execute on the target system:
  - Available through a flexible Db2 catalog browsing facility
  - Dependent Object detection
  - Powerful renaming and wildcard support
  - High-speed DSNTIAD
- Data cloning from source to target:
  - Flashcopy-based, or can use DSN1COPY if no instant copy technology is available.
  - Data set level management feature for user-defined objects, multi-linear data set adjustments, etc.

**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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