'cdr migrate server'

Informix 14.10xC1

Agenda

- Use cases
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- Prerequisites
- Supported phases
- Command syntax
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Use cases

- Setup disaster recovery server in the cloud
- Upgrade OS platform for Informix server with minimal downtime
- Upgrade Informix server from 32bit to 64bit platform
- Update Informix to new major version with minimal downtime
- Yet another command to setup Enterprise replication

How does it work?

- Based on Enterprise Replication
  - Implemented as a macro over other Informix server and replication commands
- Multi phase approach
  - Print or execute commands for each phase
- Restartable

Prerequisites

1. Storage pool is a requirement at source and target servers.

   - Needed to create required storage spaces

2. SQLHOSTS files at both source and target server must be configured with ER group information.

3. Trusted host configuration must be established between source and target servers.

4. Source server must be 11.70xC1 or higher version.

Supported phases

1. Define Enterprise Replication domain between the two servers
2. Add ERKEY columns for the tables that doesn't have primary key or unique index columns. Note that adding ERKEY is a slow alter may require downtime to applications.
3. Create required storage spaces for the databases
4. Apply database schema from source server to target server
5. Create replicate definitions.
6. Synchronize data between source and target server instances

Command syntax

usage: cdr migrate server -s source -t target -p phase [-d database] [--exec]

-s   --source Source server name

-t   --target Target server name

-p   --phase migration phase

    Supported phases:

      (1) define_er : Define ER

      (2) add_erkey : Add ERKEY to source schema

      (3) create_spaces : Create storage spaces using storagepool

      (4) create_schema : Create database schema

      (5) create_replicates : Create replicate, replicateset and

              grid definitions

      (6) sync_data : Synchronize data

      all : Execute all phases

-e   --exec Execute commands. Default: print only.

-d   --database Database to replicate

-T   --receiveonly Setup oneway replication from source to target

         ('create_replicates' phase)

-r   --checkrepair Synchronize data using 'cdr check'

       instead of 'cdr sync'('sync_data' phase)

-g   --grid Y/N Enable/Disable grid. Default:Y('create_replicates' phase)

-A   --atsdir ATS files directory path('define_er' phase)

-R   --risdir ATS files directory path('define_er' phase)

-P   --parallelsync Number of table sync jobs to run

        in parallel('sync_data' phase)

-f   --outfile <file path> Output file for commands

Examples

- To print commands to stdout:

  cdr migrate server -s server1 -t server2   --phase all

- To execute commands:

  cdr migrate server -s server1 -t server2   --phase all --exec

- To run 'define_er' phase:

  cdr migrate server -s server1 -t server2   --phase define_er --atsdir=/work --risdir=/work

Demo