

Ark CDC

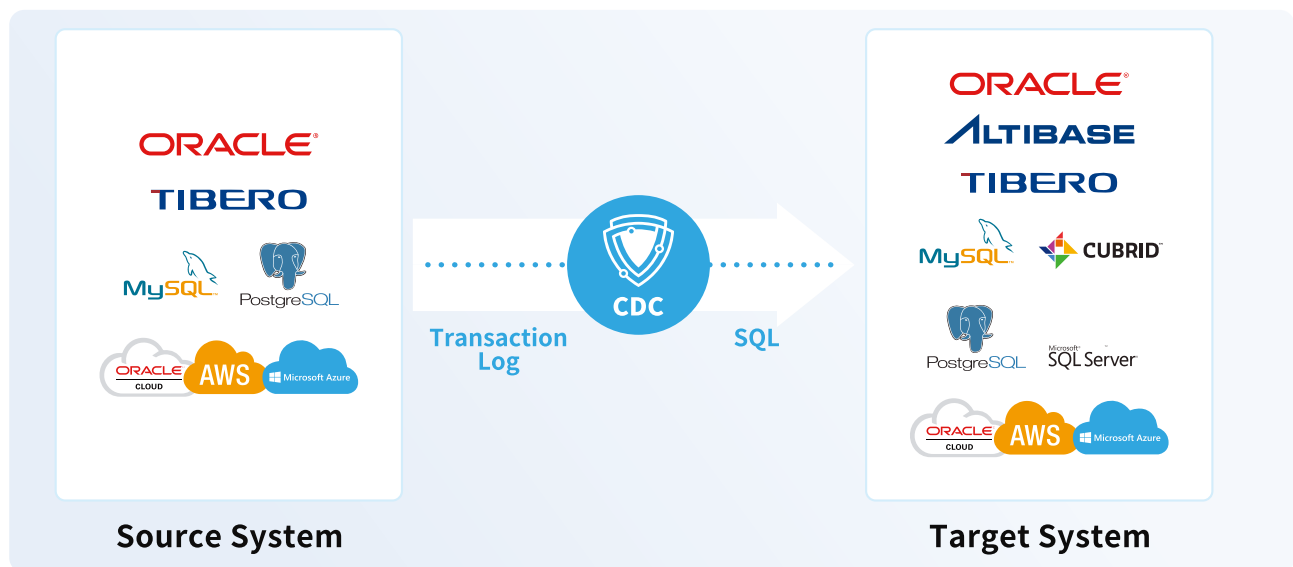
A real-time heterogeneous DB replication solution



Ark for CDC

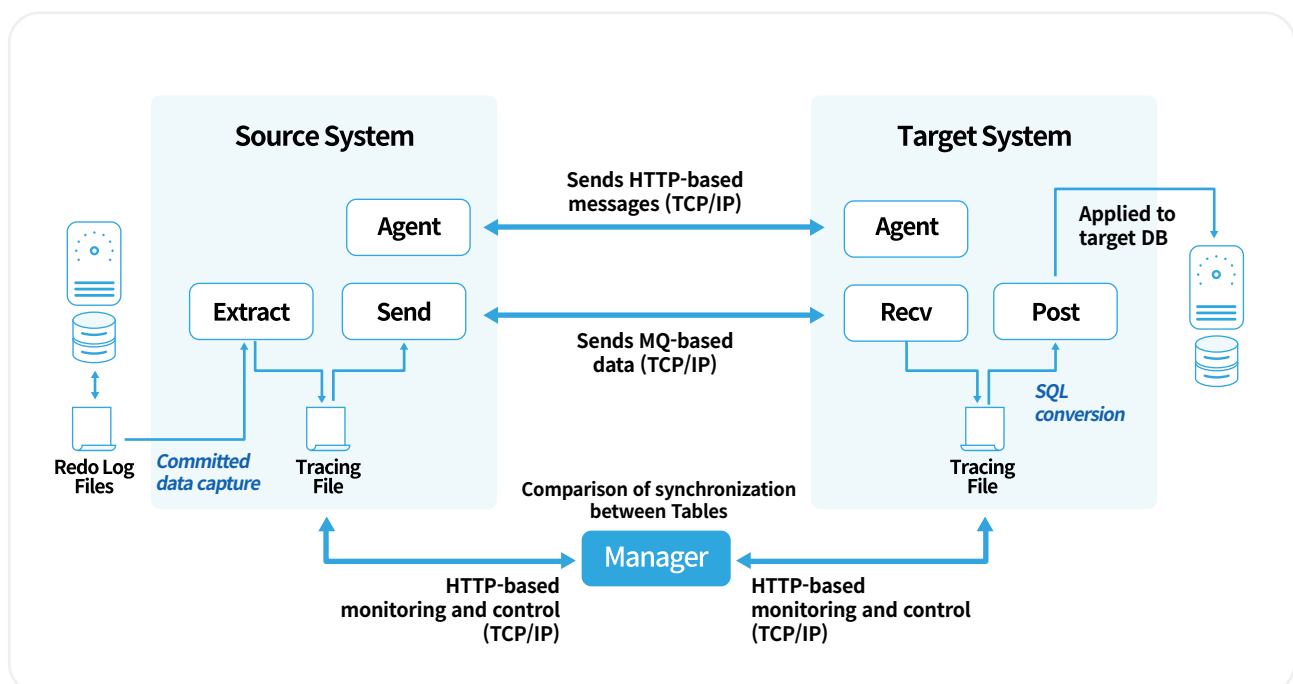
- Real-time data replication solution between heterogeneous DBMS

Ark for CDC is a real-time, heterogeneous database replication solution that safely and easily replicates data in different operating systems and database environments. It employs the direct log access method, which directly accesses transaction log files and extracts only the changed data without exerting any load on the performance of the operating server. Data extracted in real-time is converted into SQL and applied to a target DBMS to enable the replication of heterogeneous database regardless of the platform environment.



Architecture

Ark for CDC consists of a server agent and a web-based manager.



Key features

Direct Log Access

3rd in the world and 1st in Korea to apply the Direct Log Access method

Heterogeneous support

Supports data replication between heterogeneous databases, OS, storages, and platforms

Multi-Thread

The load on the operating system is minimized through the middleware architecture and Multi Extract / Multi Post

Integrity

Offers data integrity checks and recovery features through the 'Data Verifier'.

Stability

Supports data transmission encryption (SSL, HTTPS, etc.) and a compressed file transfer.

Expandability

1:N, N:1 and N:N data replication is possible in real-time to a heterogeneous environment

High performance

Supports diverse database environments including RAC, ASM, EXA, Multitenant environment, etc.

Manager

Provides Web Manager based on GUI

All in One

All features, including Web Manager and Data Verifier, provided in a single license without any additional purchase cost

Differences from Competitor Products

Check Point 1

“Data Verifier” for Data Integrity Checks

For data integrity checks, we provide the Data Verifier within the GUI manager.

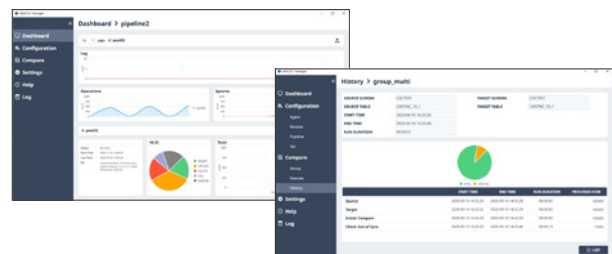
With its data compare & repair functionality, you can easily perform data integrity checks and recoveries.



Check Point 2

Web Manager for monitoring

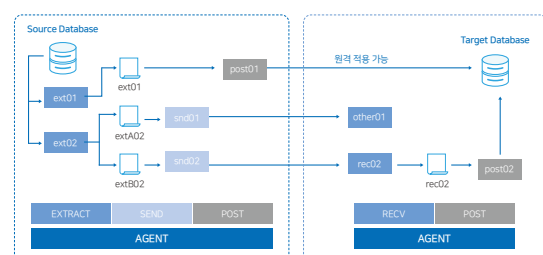
Through a web-based manager, you can monitor replication statistics information (Lag, Transactions, SQL Type). The manager enables real-time checks for replication and fault conditions.



Check Point 3

High performance using multi-thread

Supports 1:N data replication to a standardized, efficient heterogeneous environment in real time. Minimizes the load on the source system by transmitting single data to multiple targets with one extract.



Use Case

Use Case 1

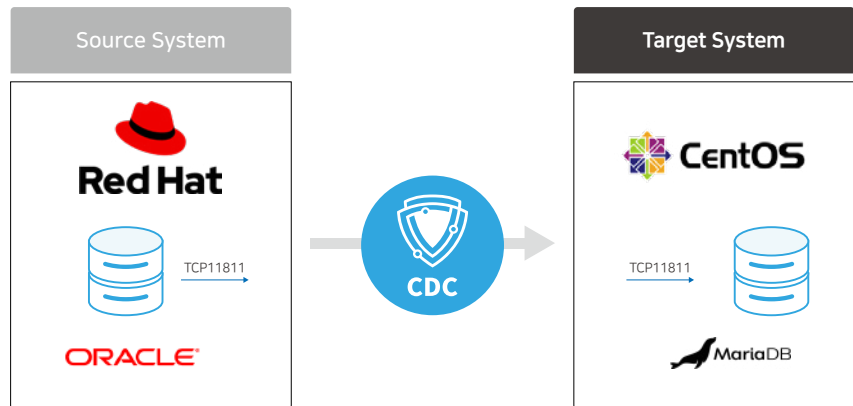
Heterogeneous DB replication

Client's situation

The Data Warehouse required real-time configuration using an open-source database for the purpose of data collection and analysis.

Outcome

Reduced the significant cost through the migration of our Oracle to the MariaDB. Furthermore, enhancements in work efficiency were realized by the real-time DW configuration.



Use Case 2

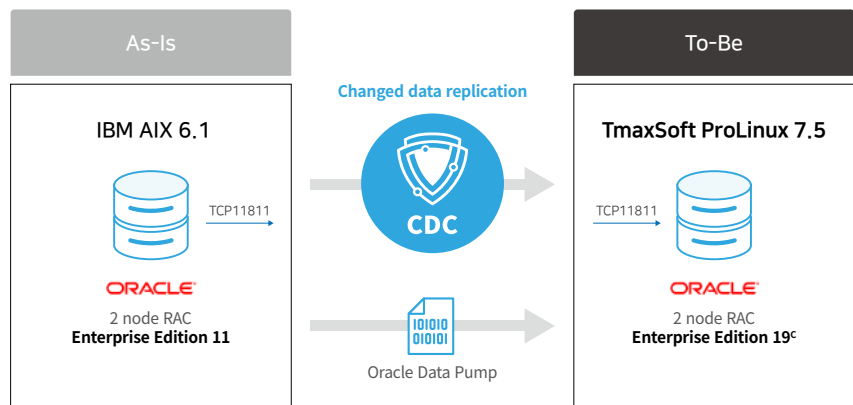
Zero downtime migration

Client's situation

Zero downtime migration was necessary to transfer mail/authentication database to new servers.

Outcome

Implemented Ark for CDC during the Unix to Linux (U2L) and database upgrade migration process, ensuring continuous service.



Use Case 3

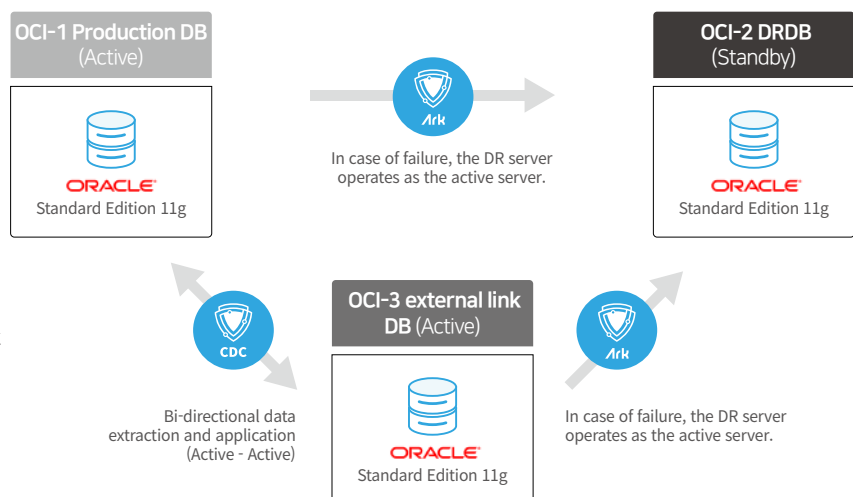
Cloud system implementation

Client's situation

The deployment of operational system and DR (Disaster Recovery) systems on the cloud is required.

Outcome

Service stability was improved by configuring triple synchronization between Active, Standby, and external link server databases in real-time using OCI.



Use Case 4

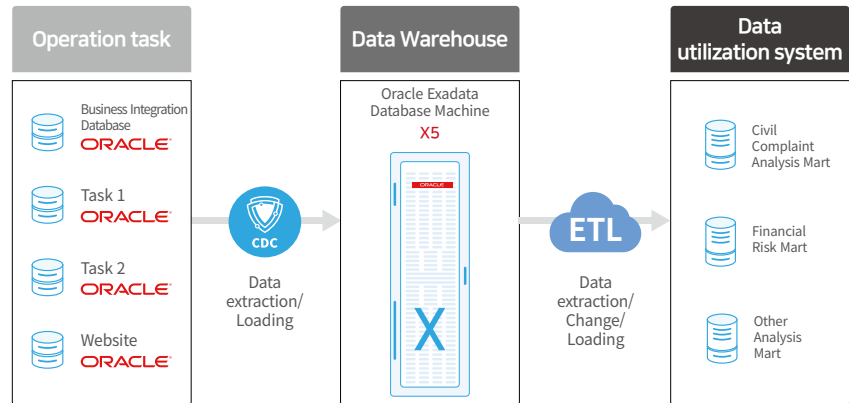
Real-time DW configuration

Client's situation

Real-time configuration of data warehousing was required for data collection and analysis.

Outcome

Significantly reduced replication time and overall workload by implementing Ark for CDC to exclusively replicate the modified data.



Use Case 5

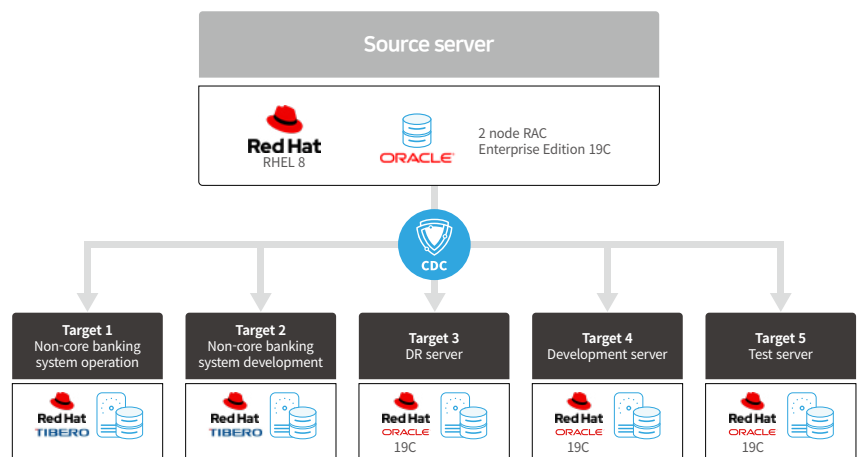
1:N real-time data replication

Client's situation

High-performance new system environment was required to respond to the acceleration of electronic financial operations.

Outcome

1:5 replication was configured between heterogeneous databases, with a real-time database replication environment configured between core banking systems using Ark for CDC.



Use Case 6

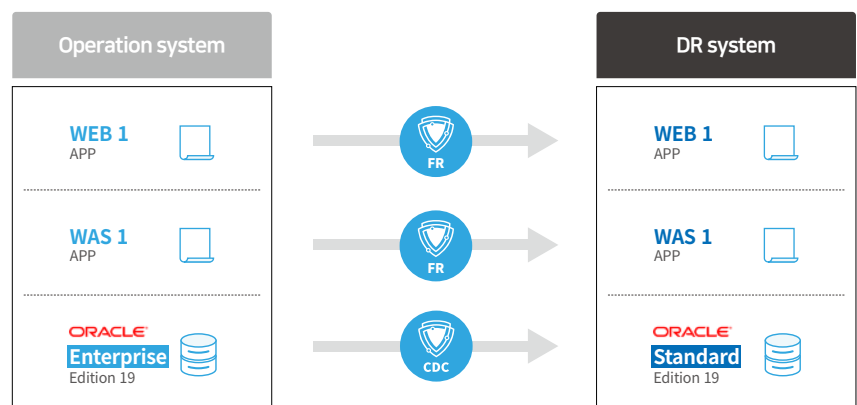
DR implementation

Client's situation

The imperative was to design and create a state-of-the-art next-generation Disaster Recovery (DR) system.

Outcome

By using Ark for CDC, a 1:5 replication was configured between heterogeneous databases, enhancing core banking systems dramatically.



Solution Reference

Public

Buk-gu Office, Daegu
Cargo Truck Driver Welfare Foundation
Construction Industry Information Center
Daegu Metropolitan City Hall
Daejeon Government Integrated Information Center
Dalseo-gu Office, Daegu
Defense Media Agency
Financial Inclusion Promotion Agency
Geoje-si Facility Management Corporation
Gimhae City Hall
Gwanak Library, Seoul

Gyeongbuk Provincial Government
Gyeongju City Hall
Gyeongsan City Hall
Gyeongsangbuk-do Agricultural Research & Extension Services
Gyeongsangbuk-do Office of Education
Human Resources Development Service of Korea
Korea Customs and Trade Development Institute
Korea Environmental Corporation
Korea Ginseng Corporation and many others
Korea Housing and Urban Guarantee Corporation
Korea Housing Guarantee

Korea International Cooperation Agency (KOICA)
Korea Land and Housing Corporation
Korea Maritime and Fisheries Training Institute
Korea Railroad Research Institute
Korea Scholars Pension Foundation
Korea Specialty Contractors Association
Korea Trucking Association
Korea Water Resources Corporation
Ministry of National Defense
Ministry of Oceans and Fisheries
Mokpo City Hall
Namhae-gun Office

National Intelligence Service
Presidential Archives of the Ministry of the Interior and Safety
Seodaemun Lee JinAh Memorial Library
The Export-Import Bank of Korea
Ulsan Port Authority
Yeosu Gwangyang Port Authority

Education

Buk-gu Office, Daegu
Cargo Truck Driver Welfare Foundation
Construction Industry Information Center
Daegu Metropolitan City Hall
Daejeon Government Integrated Information Center
Dalseo-gu Office, Daegu
Defense Media Agency
Financial Inclusion Promotion Agency
Geoje-si Facility Management Corporation
Gimhae City Hall
Gwanak Library, Seoul

Gyeongbuk Provincial Government
Gyeongju City Hall
Gyeongsan City Hall
Gyeongsangbuk-do Agricultural Research & Extension Services
Gyeongsangbuk-do Office of Education
Human Resources Development Service of Korea
Korea Customs and Trade Development Institute
Korea Environmental Corporation
Korea Ginseng Corporation and many others
Korea Housing and Urban Guarantee Corporation

Korea Housing Guarantee
Korea International Cooperation Agency (KOICA)
Korea Land and Housing Corporation
Korea Maritime and Fisheries Training Institute
Korea Railroad Research Institute
Korea Scholars Pension Foundation
Korea Specialty Contractors Association
Korea Trucking Association
Korea Water Resources Corporation
Ministry of National Defense
Ministry of Oceans and Fisheries

Mokpo City Hall
Namhae-gun Office
National Intelligence Service
Presidential Archives of the Ministry of the Interior and Safety
Seodaemun Lee JinAh Memorial Library
The Export-Import Bank of Korea
Ulsan Port Authority
Yeosu Gwangyang Port Authority

Finance

Acuon Savings Bank
BS Savings Bank
Daishin Savings Bank
DGB Capital
DGB U-Pay
KB Asset Management
KB Capital

KB Investment & Securities
Lotto Cashback
MG Community Credit Cooperatives
Mirae Mutual Savings Bank
National Federation of Fisheries Cooperatives
NICE Information Service
Teen Cash

The Export-Import Bank of Korea
U-Payment
KB Savings Bank
Financial Security Institute (FSI)
Daegu Bank
Viva Republica
Shinan Savings Bank

Shinhan Financial Plus
OKE Bank Indonesia
Woori Comprehensive Financial
Eugene Investment & Securities
Toss Securities
Hana Alternative Asset Management
Happy Money INC

Medical

Andong Hospital
Andong Medical Center
Bogang Hospital
ceonjungsam Hospital
Changwon Fatima Hospital

Chilgok Catholic Hospital
Chosun University Hospital
Daegu Catholic University Medical Center
Daegu Fatima Hospital
Gumi Cha Medical Center

Jeonju Presbyterian Medical Center
Kwak Hospital
Kyungpook National University Dental Hospital
Kyungpook National University Hospital
Open Big Hospital

Pohang St. Mary's Hospital
Soon Chun Hyang University Hospital
St. Mary's Will Hospital

Corporation

365 Home Care
AhnLab Inc.
CJ Logistics
Coocon
Daekyo
Daesang Group
Daiso
DecoView
DGB Data System
Donga Department Store
Dong-a Ilbo
Dongkuk Industries
FnGuide
Gioyoung
Hankyung Media Group
Heesung Electronics Ltd
Hung-A Tire
Hyundai Engineering
Hyundai Home Shopping
Hyundai Mobis

Hyundai Steel
Hyundai WIA
i&Play Corporation
IHQ
Inje Speedium
Inseong Data
IntechPlus
J Park
J.Theme
Jihyung Casting
JSN Co., Ltd.
Kakao Entertainment
KC Co., Ltd.
KC Corporation
Kinko's Korea
Korea Ratings
KoreaTravels
LG U+
Market Kurly
MoonGang

Motras
Nice D&R Co., Ltd.
NPC
Nuri Flex
Oriental Brewery (OB)
P&C Solution
Pinotech
PNDT
POSCO
Realtime Travel Solution
Roca Mobility
Safe Zone Corporation
Samhwa Paint
Samick THK
SAMT
SBS Plus
Shinpoong Pharmaceutical Co., Ltd.
Shinsegae I&C
Shinwha Food Co., Ltd.
Shinwon

SKON
SL China Alliance Factory
SL Jinryang Factory
SL MIRATECH
SL Yantai
SparkL
Ssangyong C&E
StarVision
Stewart Information - International
Taerim Paper, Taerim Packaging
The Skin Factory
THN Co., Ltd.
Toray Advanced Materials
Unitos
Vision Semicon
YTN



ArkData

ArkData

Tel : +84-2-1644-1946

E-mail : sales@iarkdata.com

Web : www.iarkdata.com



BCP Solutions (ARK product group)
Acquired software quality certification
(GS certification)



BCP Solutions (ARK product group)
Selected as an administration
business software



BCP Solutions (ARK product group)
Patent No. 10-0891036