

Stock Code  
6 8 8 4 3 5



# Leading Data Replication Software Company

Information2 Software Inc.



PART

01

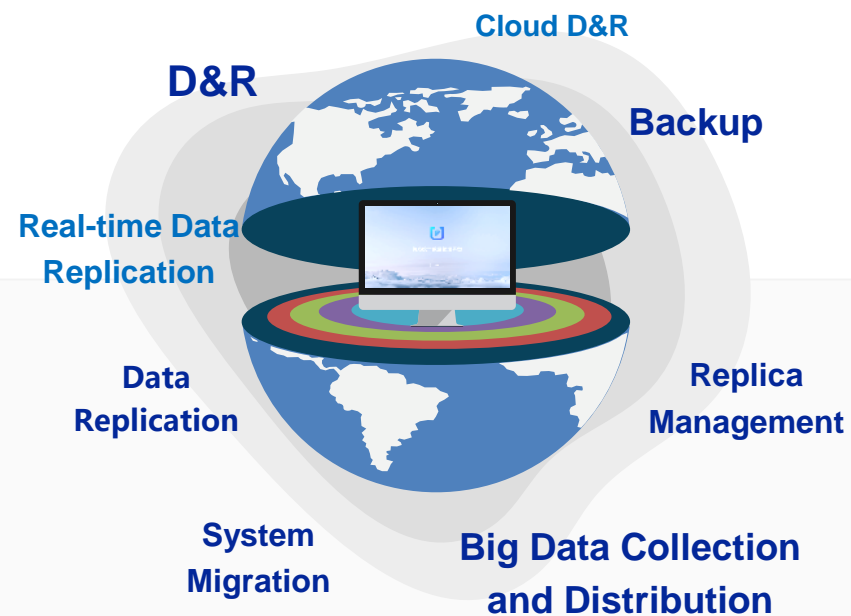
## Company Introduction



# ■ About Information2

**Information2** is a software company specialized in data replication (stock code: 688435). We are committed to the research and promotion of dynamic file **byte-level** replication, database **semantic-level** replication, volume layer **block-level** replication, and other information technology. Our products are widely used in disaster recovery, data protection, cloud data management, big data, and other fields, helping various users break data silos and achieve data interconnection. They provide robust support for the development of the digital economy. **In 2023, Information2 successfully got listed on the STAR Market of the Shanghai Stock Exchange.**

**(i2yun.com)** is a business continuity cloud service platform under the umbrella of Information2. Based on the internet, it provides **migration, disaster recovery, and high availability services** for enterprise users. It allows user data and business to flow freely, be protected, applied, and shared on private, public, or hybrid clouds.



# ■ Development History

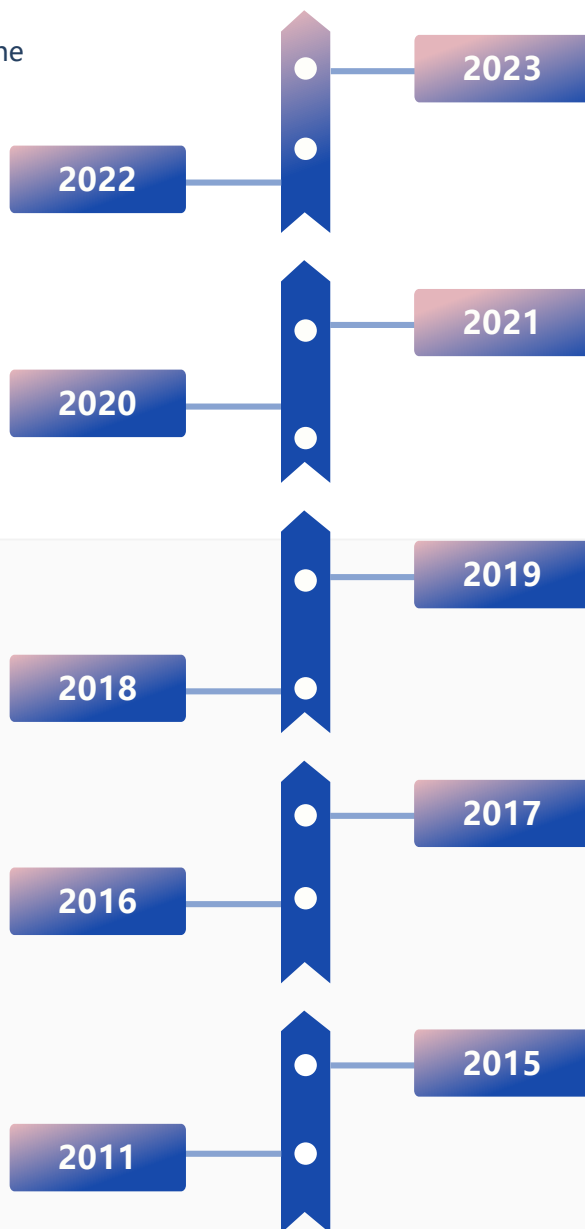
Recognized as the Shanghai Enterprise Technology Center, released the first **“White Paper on China Data Replication Industry”**, launched **the new D&R management platform i2DRM**, and jointly released solutions with Alibaba Cloud and Loogson. It won the bid for **CBC’s** two-site three-center cloud disaster recovery project, and provided heterogeneous library migration services for **CCB**.

Awarded the title of **Shanghai Science and Technology Little Giant Enterprise**, held Information2 City Tour online, released **the new version of i2UP V7.5**, launched the **“White Paper on China Data Replication Industry”**, and **won the bid for ICBC’s file replication project**.

Released the **i2UP unified data management platform**, the three major R&D centers in Beijing, Shanghai, and Hangzhou continue to grow and develop the organizational structure is continuously improved.

As **the first in the industry to promote the “D&R Full Ecosystem”**. Released the first **“White Paper on China Data Replication Industry”**, and was listed on the NEEQ (Stock Code: 837417)

Information2 was established, and in the same year, it launched the **first kernel-mode D&R+HA product i2Availability**.



Successfully listed on **the STAR Market of the Shanghai Stock Exchange(688435)**, the headquarter’s Building 16 was put into use, jointly launched a **citywide exhibition** with partners, and released joint solutions with Huawei and others. i2Stream, i2Box, and other products won honors such as **Shanghai High-tech Transfer and Innovative Products**.

Awarded titles such as **“Specialized, Unique, New, High-Tech Transfer Top 100”** in Shanghai, and **launched a D&R intelligent management platform**. IDC 2021 H1 DR&P SW ranked Information2 as the top professional D&R manufacturer in China. Won the bid for the benchmark project of mobile cloud migration, and landed projects such as **Guiyang Bank and Sichuan Medical Insurance**.

Formed four major product lines: **backup, D&R, big data and cloud D&R**, with **nearly 30 independent innovative products**, jointly creating innovative products like Cloud CDM with Huawei Cloud.

Completed a targeted issuance, put Building 15 at the Shanghai headquarters into use, **further expanded its overseas market layout**, and served users in countries and regions such as France, Saudi Arabia, South Africa, Mexico, and Southeast Asia, expanding the scale of **“industry direct sales + channel distribution”**.

Launched **the enterprise business continuity cloud service SaaS platform**, Information2 Cloud i2yun.com, and made a strong layout in the domestic D&R management market.



# ■ Global Layout Centered around China

## Headquarter

Shanghai (Global Operation Center)

## R&D Center

Shanghai, Beijing, Hangzhou, Xian (Test)

## Branches (Direct Sales+Distribution)

Beijing - North China   Guangzhou - South China   Shanghai-East China  
Jinan-Central China   Chengdu - Southwest   Nanjing - East China  
Shenyang - Northeast   Xian - Northwest   Wuhan - Northeast

## Overseas Market

Middle East, Asia-Pacific, India, Europe and America, Africa



● 研发中心  
R&D Center

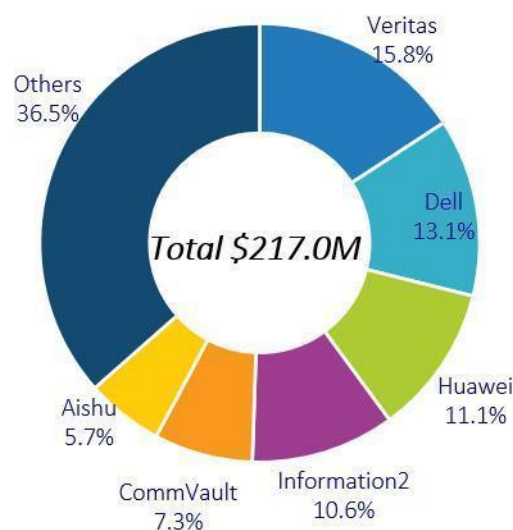
● 分支机构  
Branches

● 海外市场  
Overseas Market

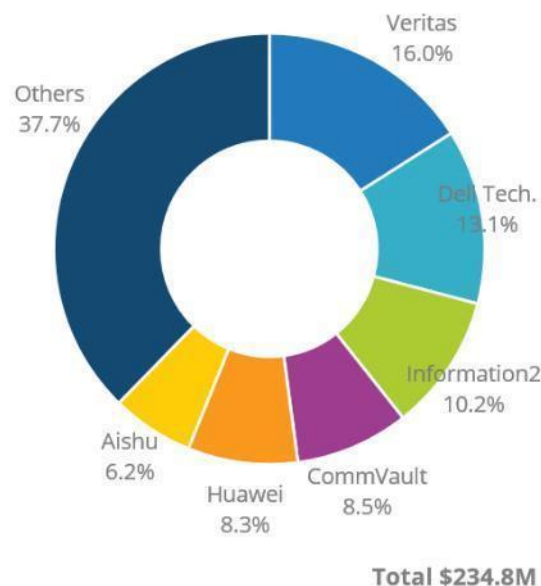
# ■ The IDC Report: Informaton2 maintains Leadership

In the IDC software market, Information2 has been ranked as the top professional D&R vendor in the country for **six consecutive times**.

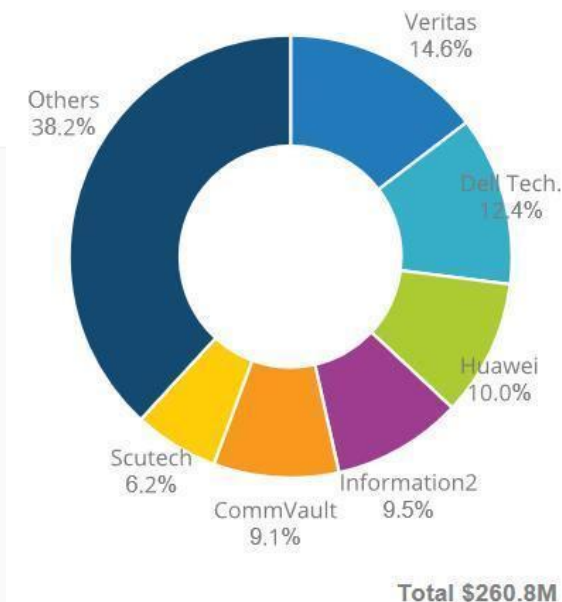
PRC DR&P Software Market  
Competitive Landscape, Vendor  
Revenue, 2020



PRC DR&P Software Market  
Competitive Landscape, Vendor  
Revenue, 2021



China DR&P Software Market  
Competitive Landscape, Vendor  
Revenue, 2022



# ■ Data+ Digital Transformation and the Ascending Phase of the digital economy

"The 14th 5-year Plan"  
Development Plan for  
the Digital Economy

"The 14th 5-year Plan"  
Development  
Plan  
for the  
Digital Economy

"The 14th 5-year Plan"  
Development Plan  
for the Software and Information  
Technology Service Industry

Concepts  
populares

Digital  
Economy

Big Data  
Application

Domestic  
Software

Data Security

Level  
Protection

Digital  
Transformation

Eastern # Western  
Calculations

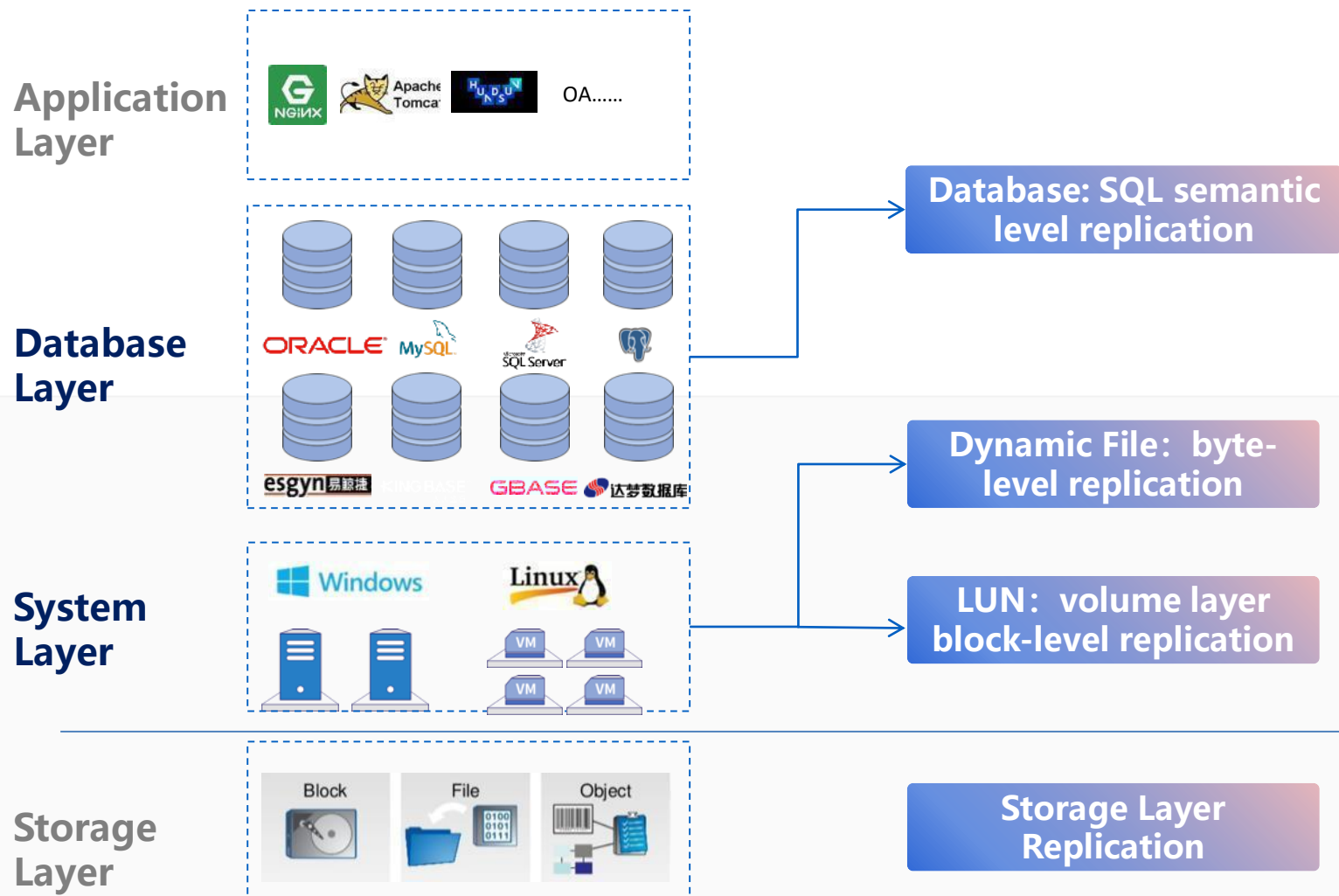
Data 20  
Articles

By 2025, the value-added of the core industries of the digital economy is expected to account for 10% of the GDP. The industries of **data security and domestic software** are ushering in a new stage of development.

Promoted the "timeliness" flow of data, enhance the capability of efficient data sharing, and **support efficient transmission and distribution of big data.**

Making breakthroughs in basic software, enriching services of data **backup**, disaster recovery, and critical system protection, and other security software products

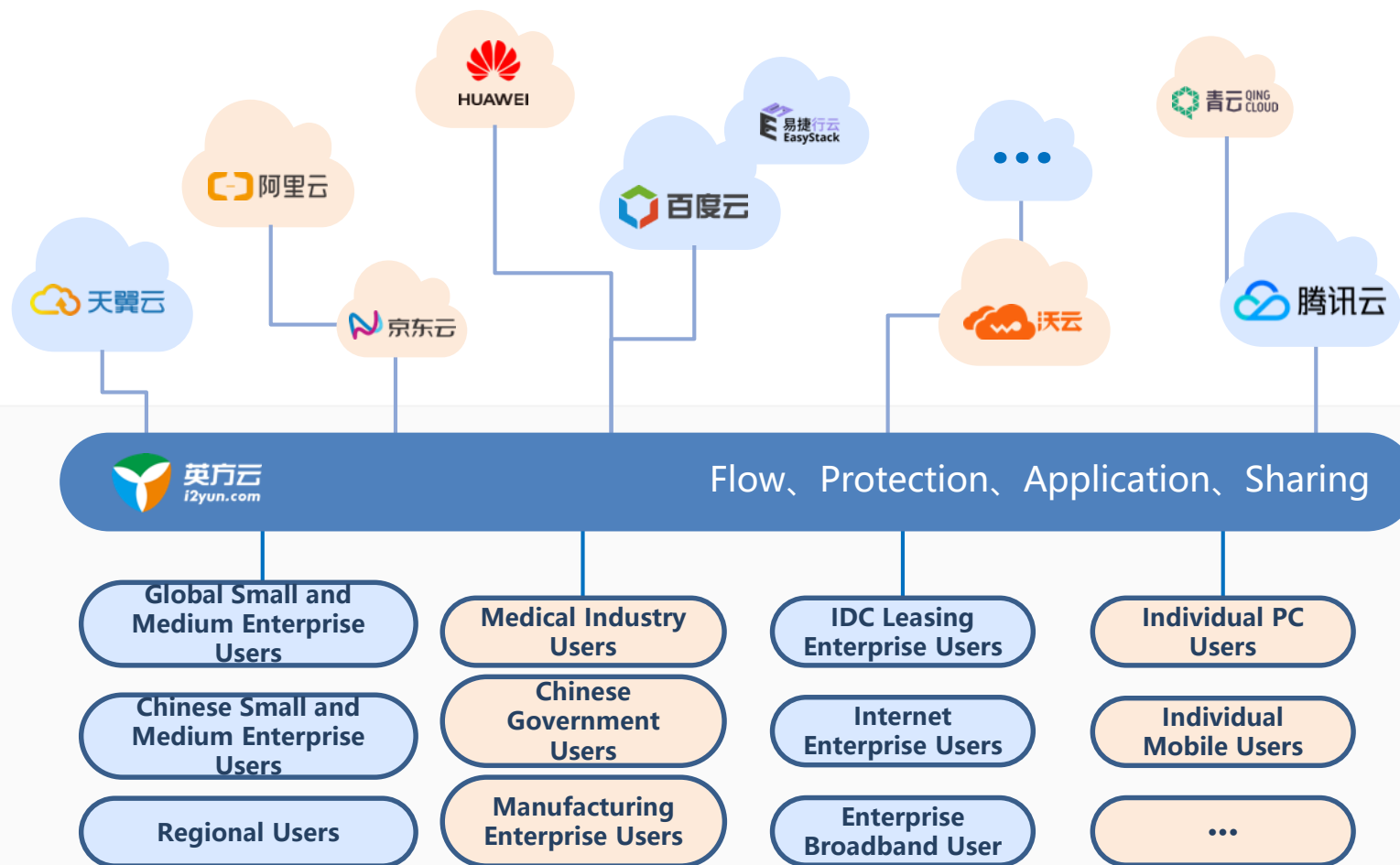
# Multi-level Kernel Replication Technology



- ① Self-developed, **host and database layer technology**
- ② The most comprehensive scenarios, **suitable for various** system databases
- ③ Suitable for long-distance, narrow bandwidth **complex environments.**
- ④ **High security**, suitable for large-scale **commercial deployment.**
- ⑤ Simple delivery, can be delivered via **CD/email.**



# ■ Cloud D&R Based on Three Major Technical Principles



i2CloudDR  
Cloud D&R

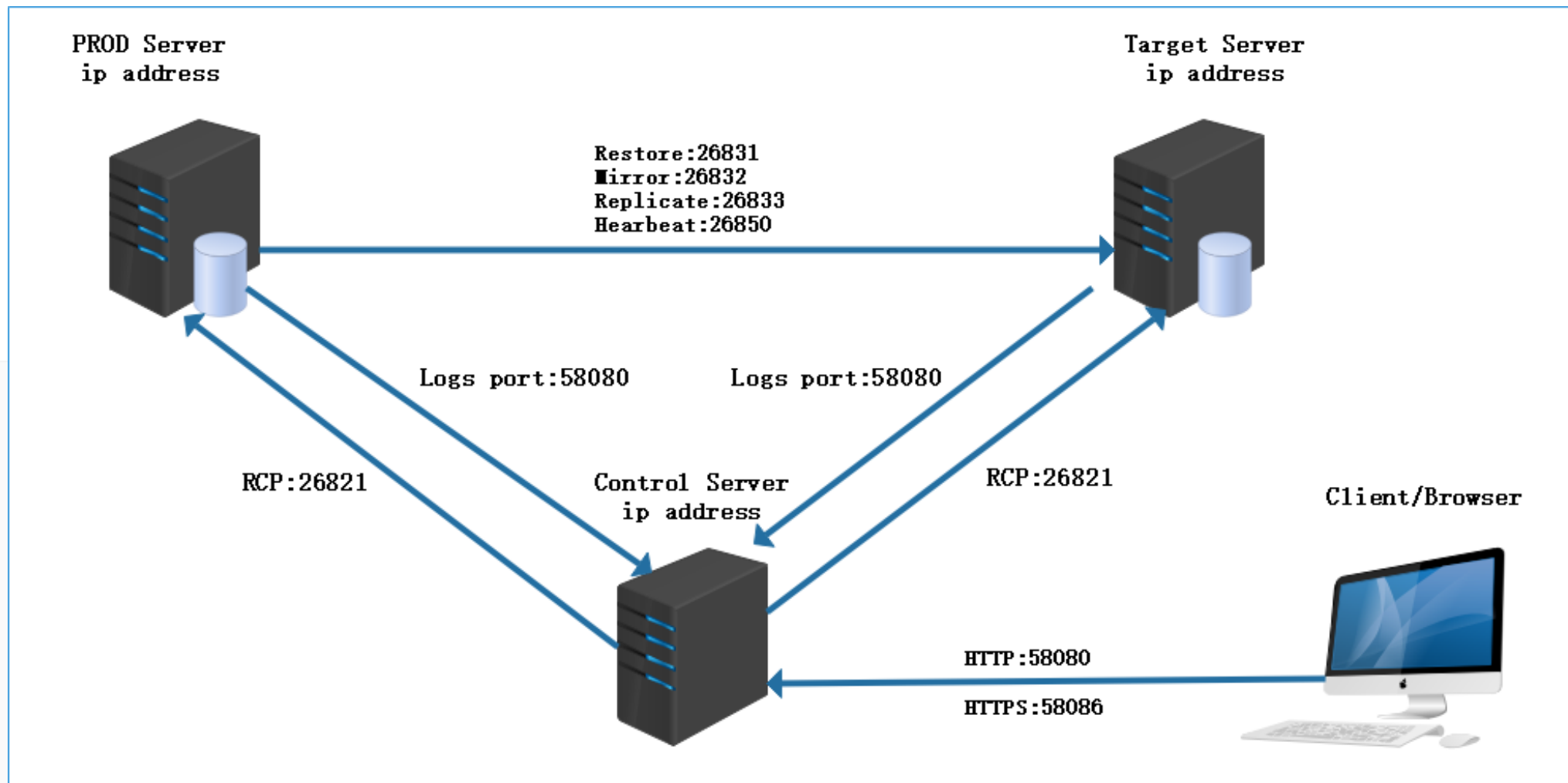
i2BakShare Cloud  
Sharing

i2Migration Cloud  
Migration

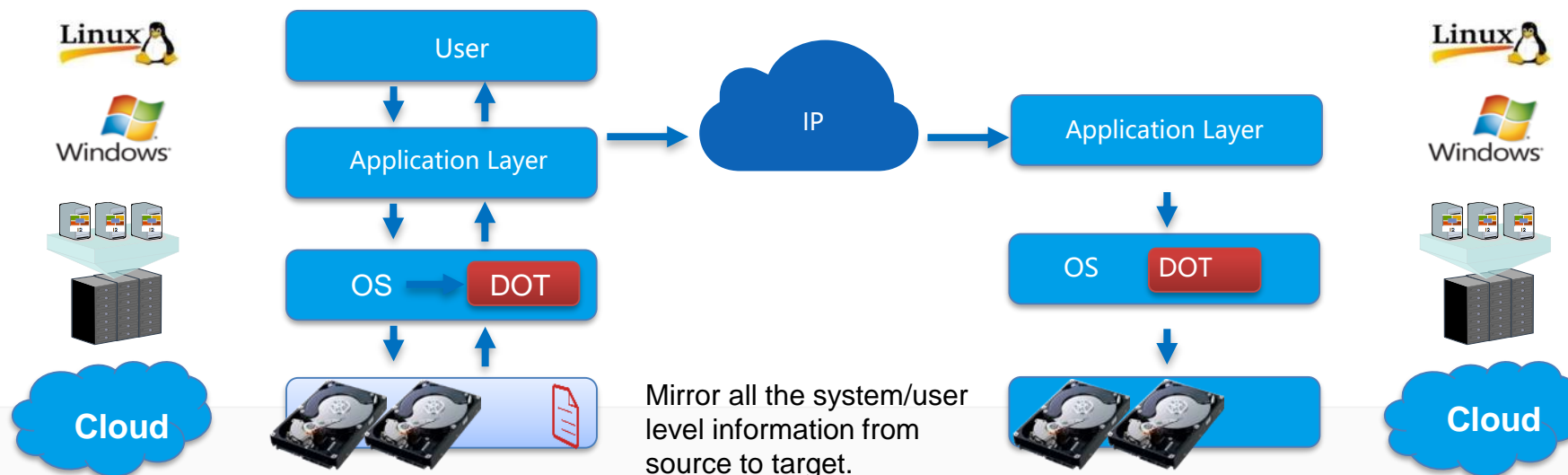
i2CloudCDP Cloud  
Backup

i2CloudBox  
Cloud Appliance

# Software Architecture



# OS layer -- Byte-Level Replication



Byte-level real-time asynchronous replication

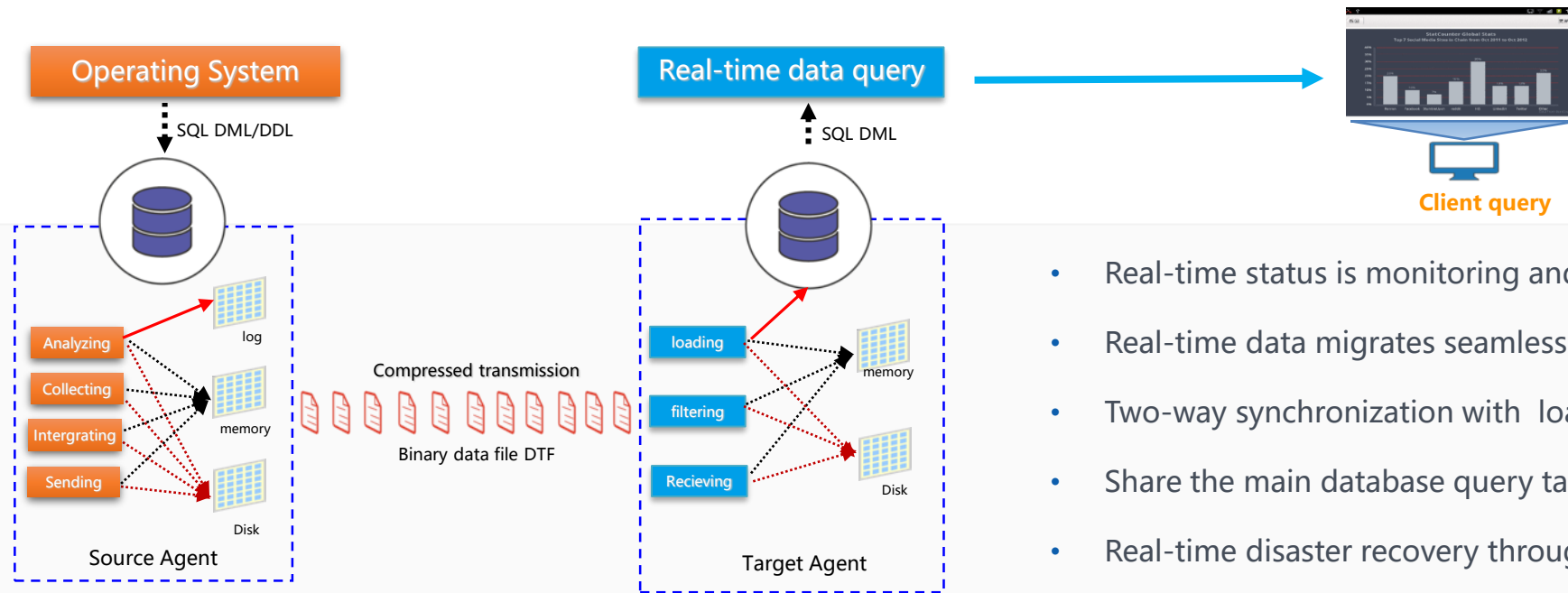
At the same time of incremental data transmission, difference check and comparison

Serialized transmission to ensure data consistency

Continuous data protection; Historical data restore as need

# Database layer -- SQL statement level synchronization

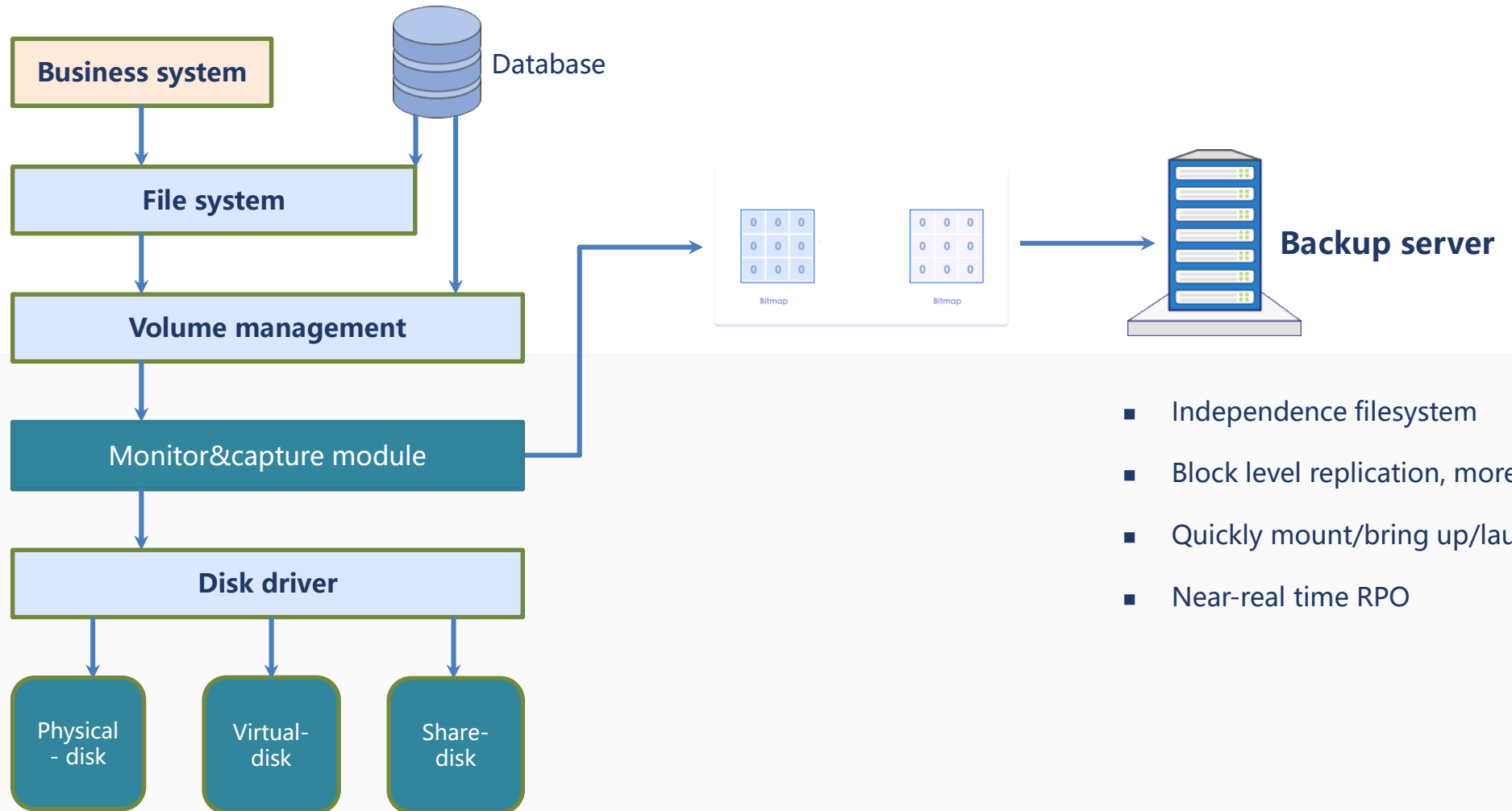
Data synchronization and disaster recovery protection by analyzing database logs.



- Real-time status is monitoring and controllable
- Real-time data migrates seamlessly
- Two-way synchronization with load balancing
- Share the main database query task
- Real-time disaster recovery through SQL statements
- Support non-archive mode
- Support DML/DDDL



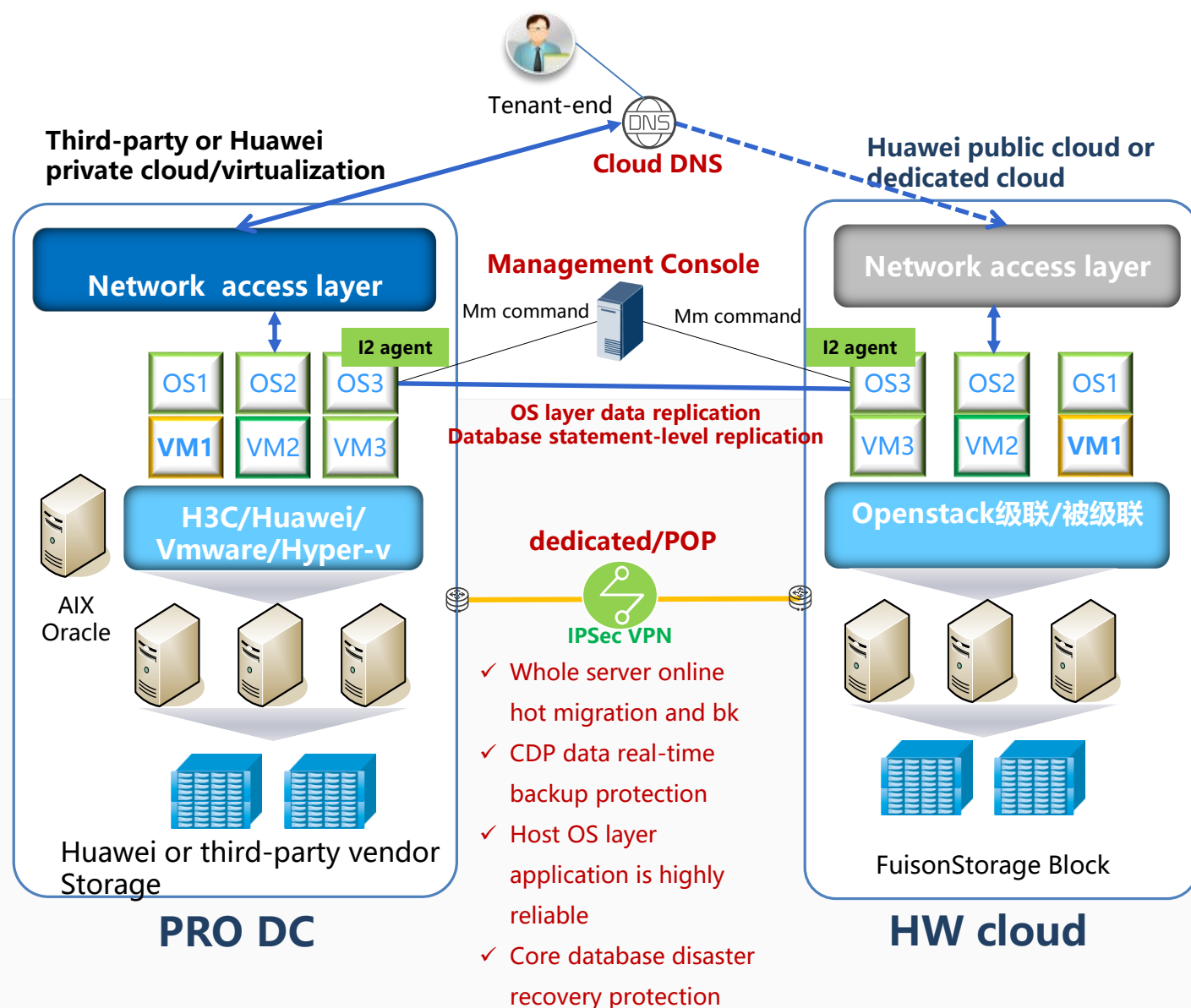
# Block layer -- Snapshot replication and CBT



- Independence filesystem
- Block level replication, more efficient
- Quickly mount/bring up/launch
- Near-real time RPO

## 02.Solution introduction

# Based on HUAWEI Cloud i2 DR Solution Panorama



## Cross-cloud solutions

- First migration: depends on Huawei SMS, Rainbow or **i2Move**;
- Real-time replication: **i2COOPY**;
- App HA: **i2Availability**;
- DB DR: **i2Active&i2stream**;
- Continuous data protection : **i2CDP**;
- Full Server hot backup: **i2FFO**;
- Heterogeneous storage: Object bucket replication/backup by **i2DTO**、NAS synchronized by **i2NAS**;
- Cloud DR: **i2CloudCDM**
- United Console: responsible for DR management app pull up、backup、restore etc.
- Business access : GSLB or DNS、ELB business flow switching achieve HA and DR of APP.

## Solution features

- Cross-platform DR, supporting DR scenarios from physical machines/virtual machines to ECS/BMS ,
- Real-time, lightweight replication: Near-real-time replication, RPO can be second-level; only the change IO is replicated, and the bandwidth requirement is small, which is good for hybrid cloud scenarios ,
- Visual management: graphical DR management, fault monitoring, business switching, simplified DR management .

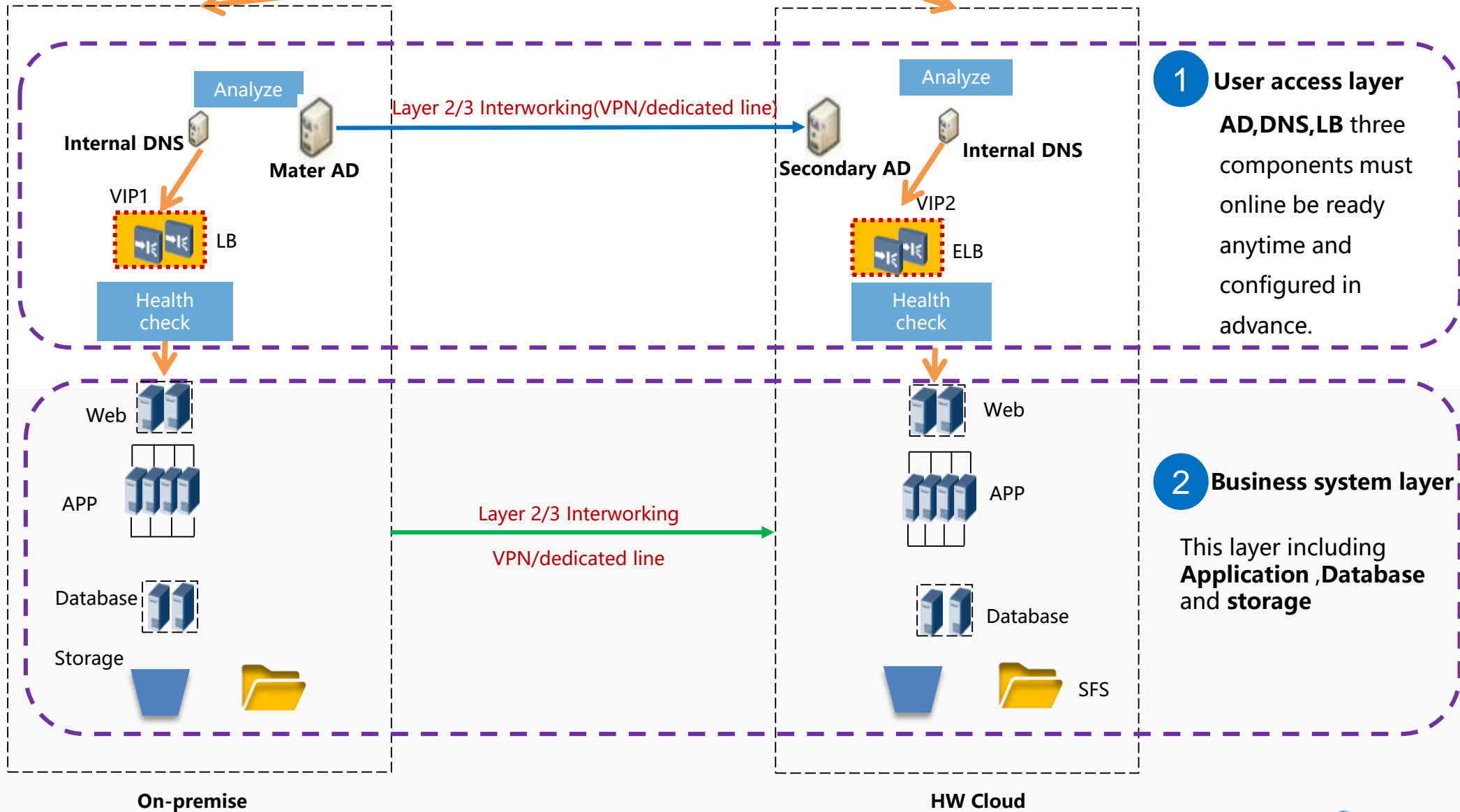
**Recommend service:** ECS、BMS、DNS、ELB、EVS

# Products function classification

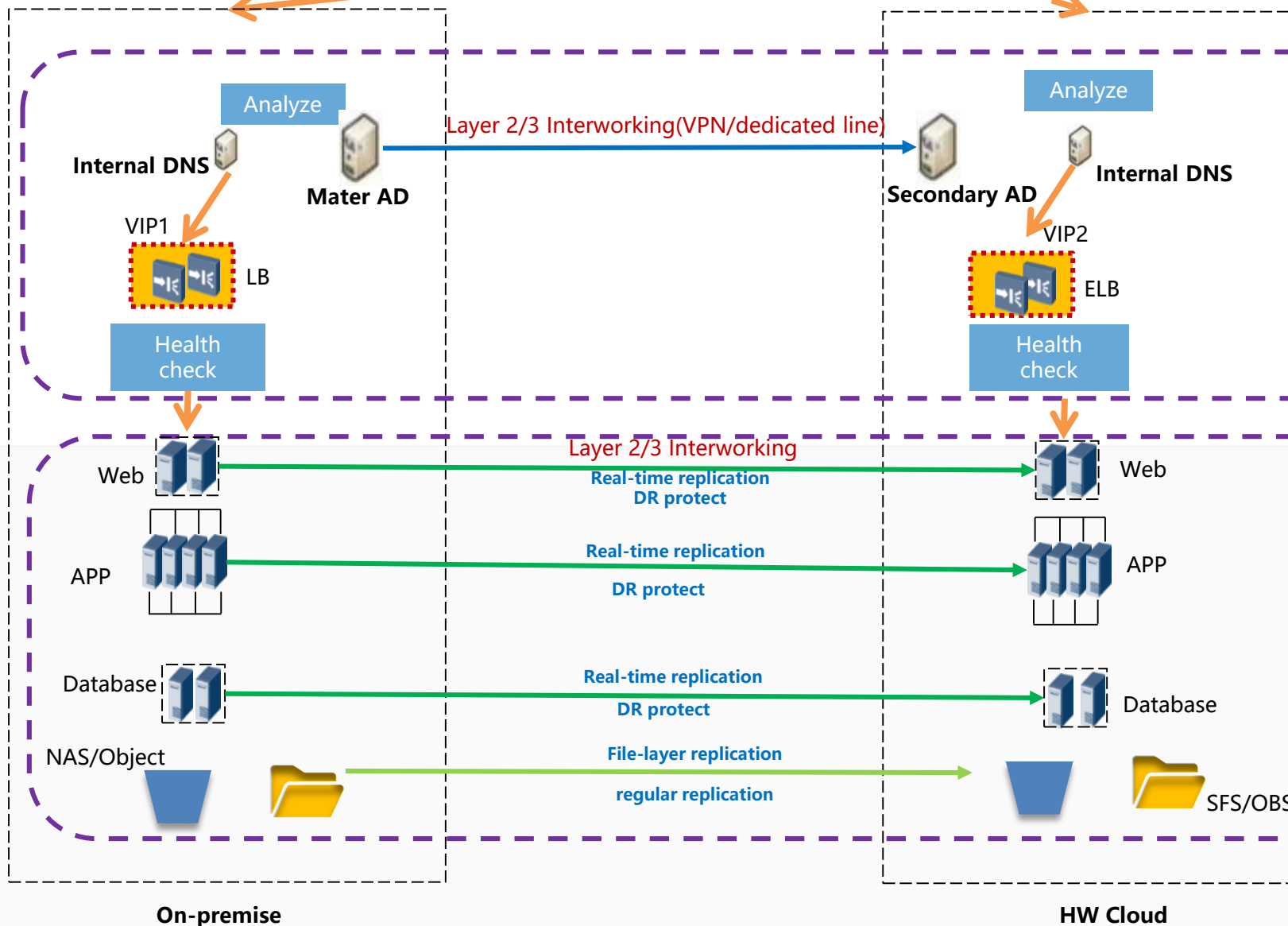
Name	filed	Function classification	Bottom layer Technology	Meet solution
i2Move	migration	migration	Byte-level replication	
i2Coopy	file-layer DR	online DR	Byte-level replication	HOT DR & Warm DR Active-Active
i2Availability	APP-layer DR		Byte-level replication	
i2Active	Database-layer DR		SQL-level replication	
i2DTO	DR&Backup		regular replication	
i2NAS	DR&Backup		regular replication	
i2CDP	Backup	offline DR	Byte-level replication	Cold DR Active-Standby
i2Backup	Backup		File-level replication	
i2FFO	Backup		file/block-level replicaition	
i2CloudCDM	Between DR&Backup		block-level replication	



# DR Overall understanding



# Solution01: Hot&Warm DR



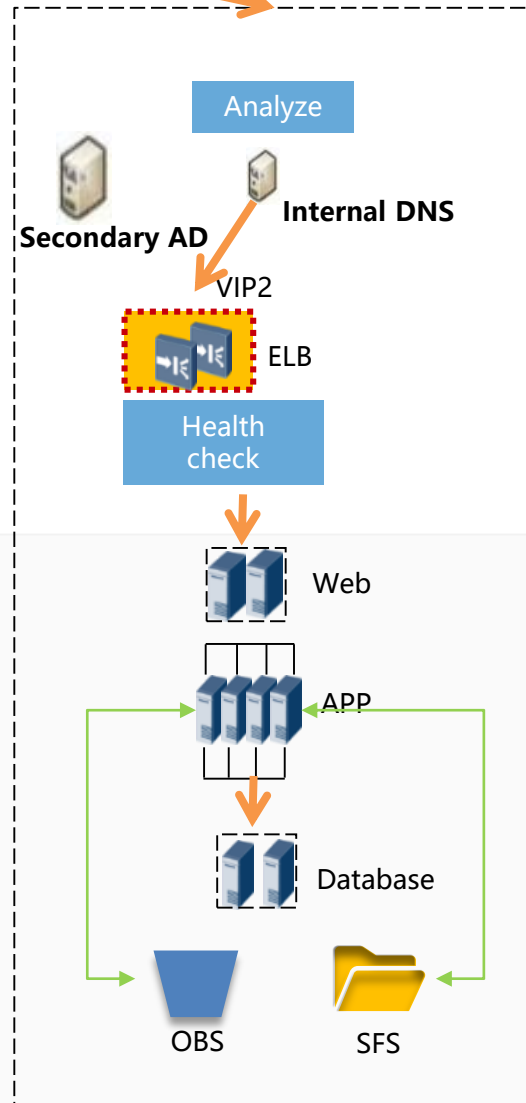
## 1 User access layer

**AD,DNS,LB** three components must online be ready anytime and configured in advance.

## 2 Business system layer

1. Prepare **Web ,APP , Database** on HW cloud ECS
2. Data real time replication, high availability protect
3. Replicate unstructured file to HW Cloud OBS/SFS

# A1.Takeover planning

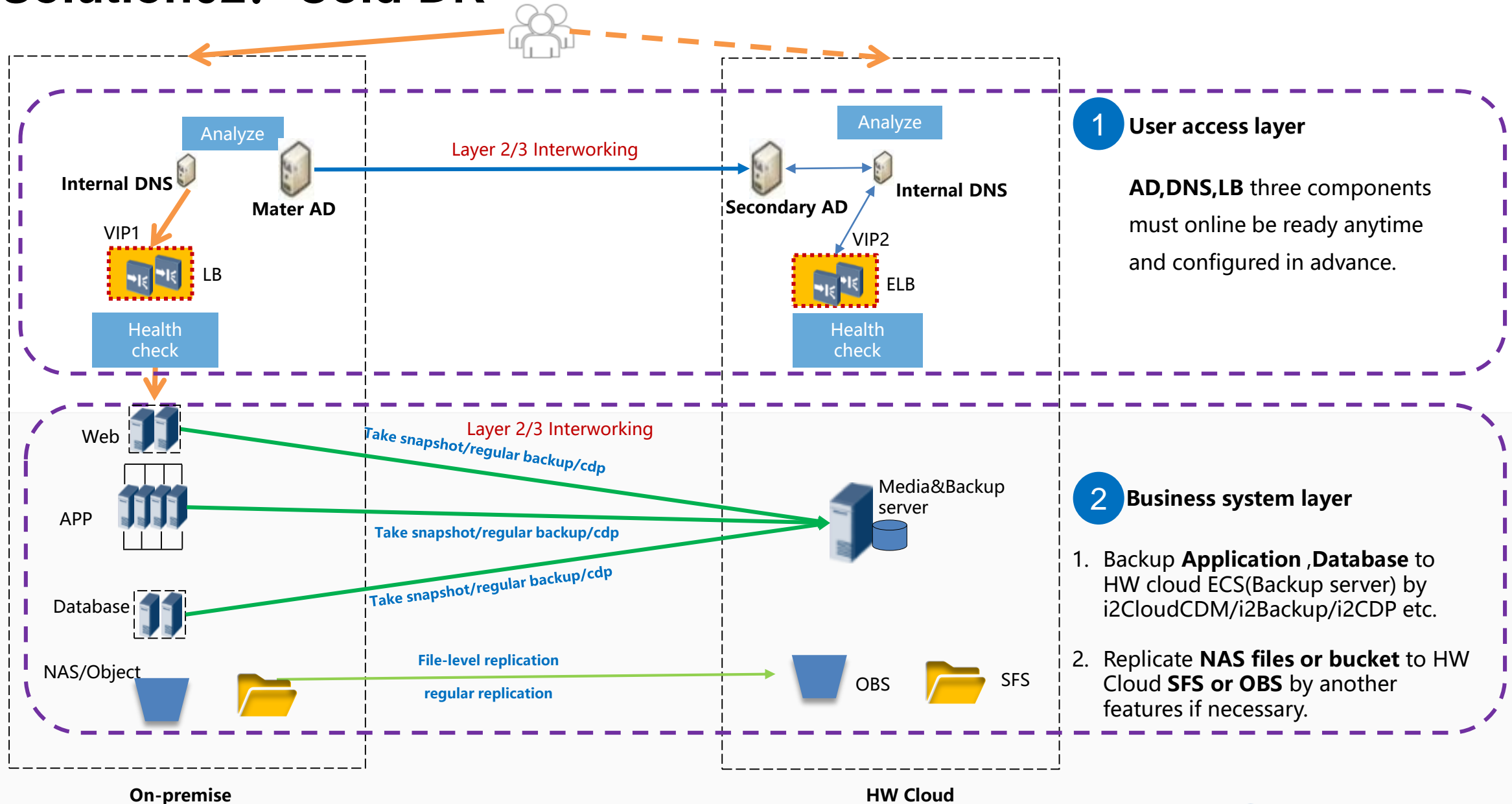


HW Cloud

## Three main parts

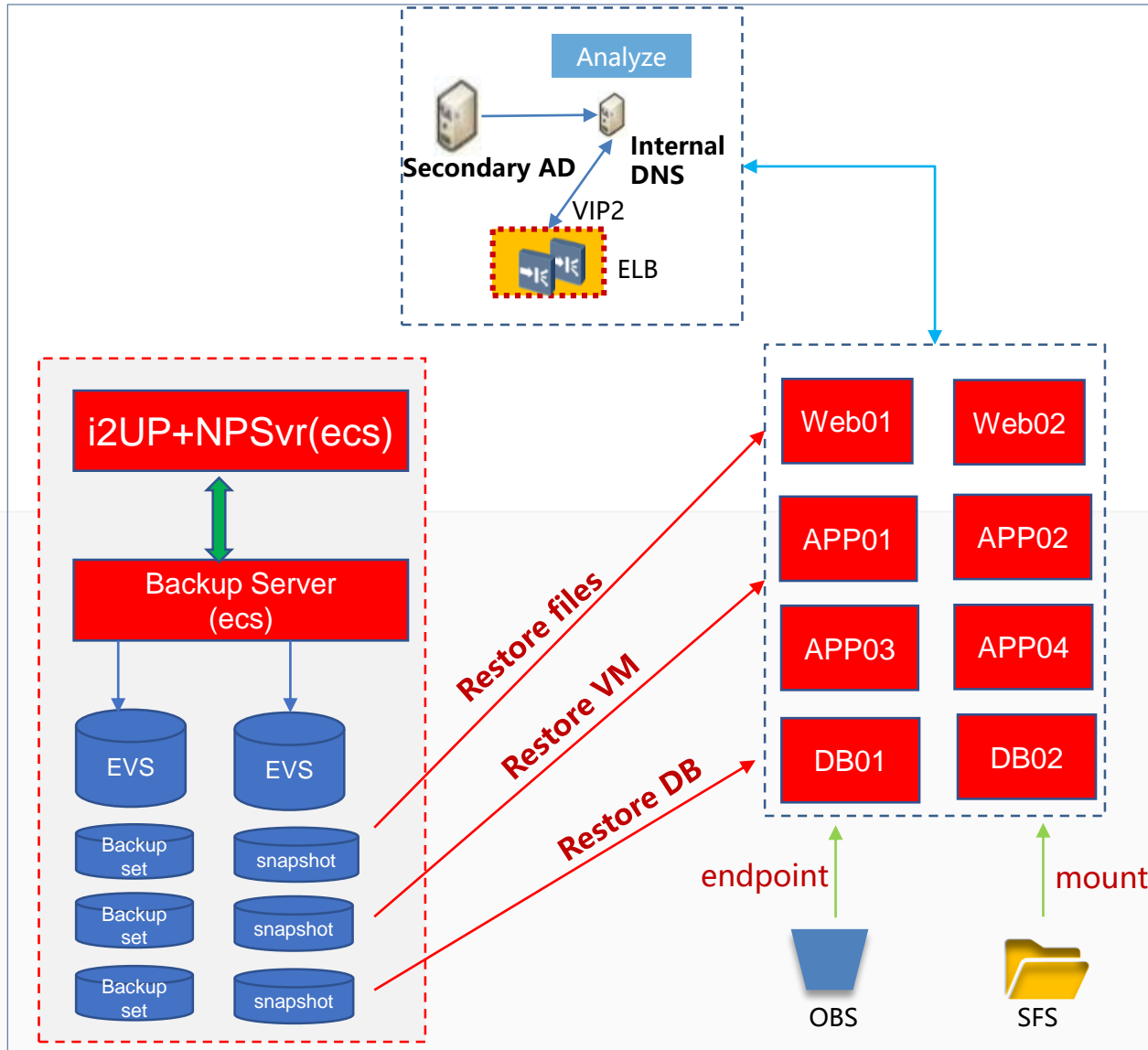
- (1) **Access switch:** Combine with ELB,DNS,AD switch access I/O to HW cloud.
- (2) **Application and DB takeover :**  
Web , App , Database startup automatically in seconds/minutes.
- (3) **Storage takeover :** SFS already mount to ECS in advance nothing need to do; OBS can be access directly on HW Cloud.

# Solution02: Cold DR





# B1.Takeover planning



## Three main parts

**(1) Access switch:** Combine with ELB,DNS,AD switch access I/O to HW cloud.

### (2) Application and DB

**takeover :** quickly restore Web, APP , Database files/VM/DB from Backup-server in hours or minutes.

**(3) SFS/OBS takeover :** Once Application ECS startup and mount SFS to ECS manually or directly access OBS.

# B2.Resource and requirements

- We must prepare enough space to backup-server, basically is two or three times space than storage usage of the source.
- Based on our best practices , we provide a basic combination quantity recommendation is about 20 source machines to back up to 1 ECS(Backup-server).

Layer	DR Components	Tools	Resource	quantity	DR Function license
User access layer	LB	ELB	ELB	1	Huawei
	DNS	Internal DNS	ECS install DNS(Specification similar to PRO)	1	Microsoft
	AD	Native secondary AD	ECS install AD(Specification similar to PRO)	1	Microsoft
Business system	Web Applications Database	① Backup files real-time by i2CDP; ② Backup database regularly by i2Backup; ③ Take snapshot for whole server by i2CloudCDM	ECS for control server(2vCPUs   8 GiB   200GB SSD system disk)	1	21software feature license (20source server plus 1 destination server)
			ECS for backup server(4vCPUs   16 GiB   500GB SSD system disk)	1	
			EVS assign to backup server   high IO	2~3 times source storage usage	
			EIP or VPN or dedicated line	1	
	NAS/Object	i2NAS or i2DTO Regular replication	SFS/OBS	quantity and size similar to on-premise	Estimate 2 software feature license (1 source plus 1 destination)

# 4. Comparison

Items	DR Components	Solution	Function license	Takeover overview	RTO	RPO
User access layer	LB	ELB	Huawei	Always online	0	/
	DNS	Internal DNS	Microsoft	Always online	0	/
				Configuration in advance		
	AD	Native secondary AD	Microsoft	Always online	0	/
				Configuration in advance		
Business system	Applications	i2CloudCDM <b>backup</b>	10 software feature license(10 source server plus 1 destination server)	DR server offline	<30 minutes	Minutes Or hours
				One VM Restore in minutes		
				Parallel restore VM		
	Database	i2Availability/i2Active <b>real-time replication</b>	20 software feature license(10 source server plus 10 destination server)	Destination server always online	<5 minutes	seconds
			SQL license by Microsoft	Bring up application automatically in seconds		
	NAS/OBS	i2NAS regular replication	2 software feature license(1 source plus 1 destination)	File remains in source format no need to restore	<5 minutes	hours
				Mount to APP server		

### 3、Products Introduction



# HUAWEI CLOUD Marketplace - International



i2Availability



i2CDP



i2COOPY



i2Move



i2Active



i2Backup








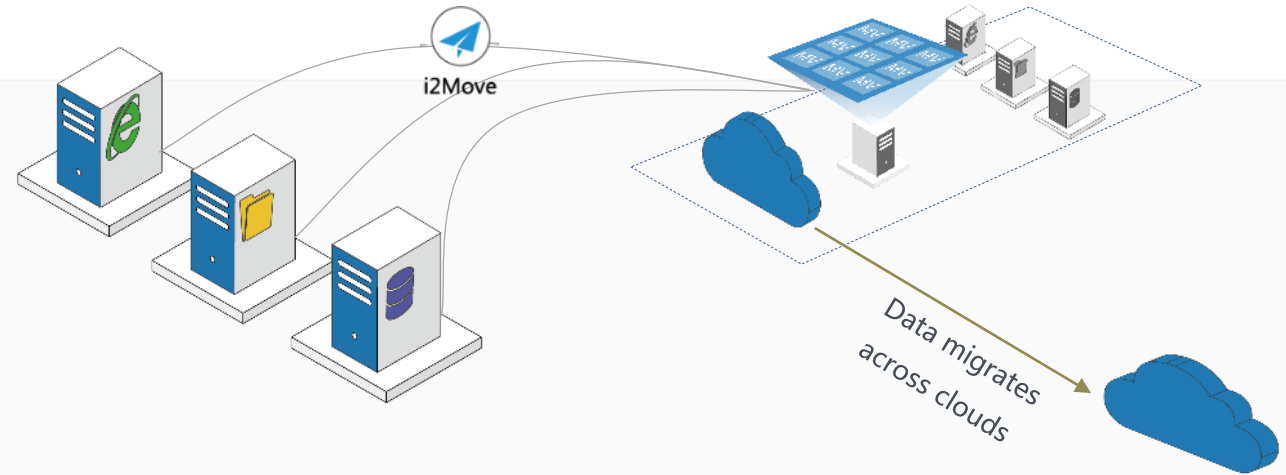
i2FFO

# i2Move

Completes online migration. One-click migration operation without downtime. System, application, user data are all migrated.  
Predictable process, and seamless switching.

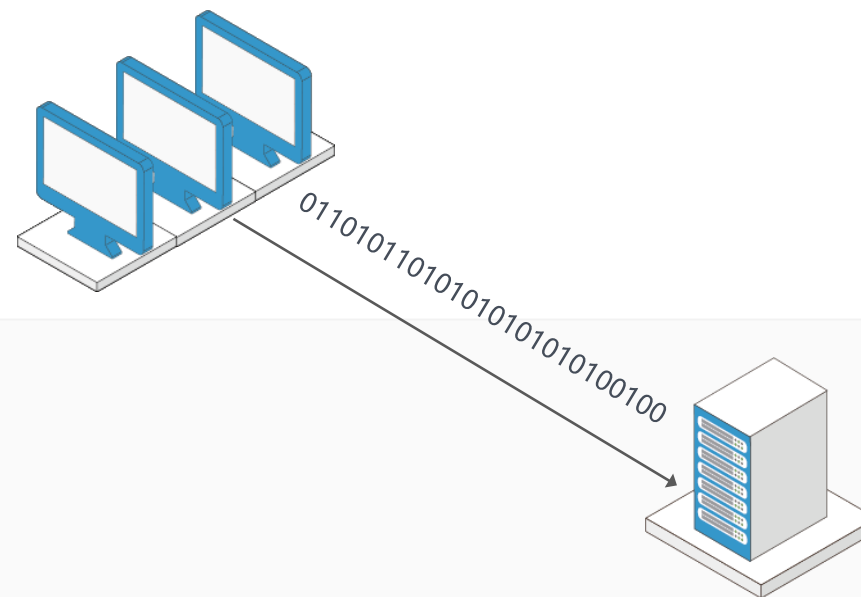
## Key

-  Hardware-independent migration
-  Applications and user data ready to use
-  Migration w/o service impact
-  Support P2V, P2P, V2V, V2P, Cloud to cloud migration
-  One Click Migration



# i2COOPY

Provides customers with continuous data backup and on-demand recovery services. Easily back up data from each server to a local or remote disaster recovery center, quickly restore the data as required. The data consistency and integrity of the production server and the disaster recovery center are strictly guaranteed. Widely used for real-time protection of common file systems, database systems, and E-mail systems, etc.



## Key



Compatible with various Apps.



Byte-level incremental data capture



No backup time window



Efficient data transmission algorithm



Serialized data transmission



Simple & Flat Mgmt Structure



Unified Web interface



Flexible deployment

# i2Availability

Provides high-availability services at any distance for a variety of applications. When an application exception occur (such as process stop, network outage, hardware failure, system downtime) causing service interrupt, i2Availability detects and immediately switch the application to the standby server.

## Key



Compatible with various Apps



Seamless failover and failback



Graphical monitoring & management



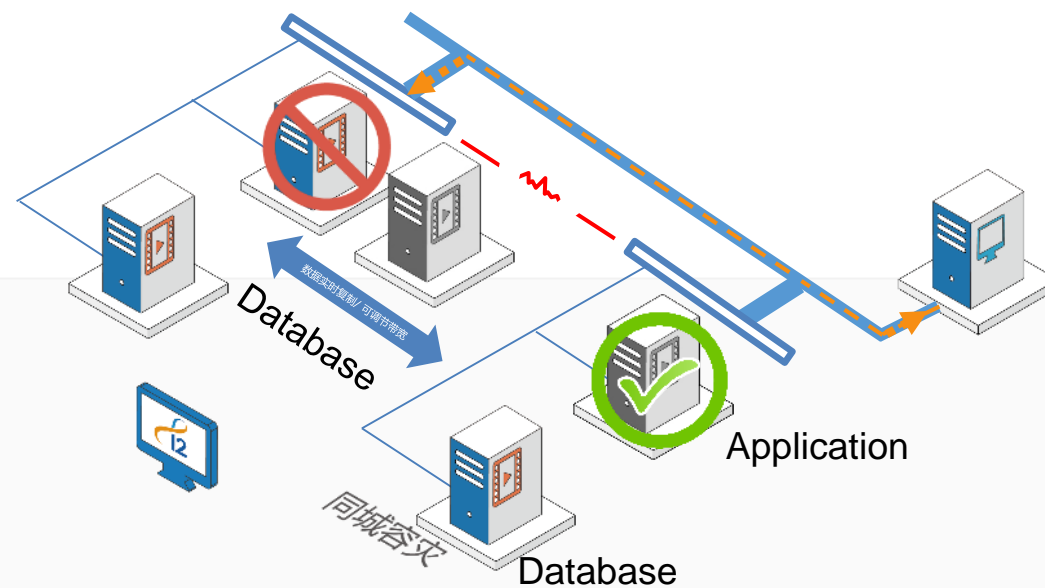
Independent of hardware & Apps.



Flexible deployment



Virtual IP supported



# i2Active

i2Active is a database transaction-level real-time synchronization software. In the high concurrency transaction scenario of database, it realizes full volume and incremental synchronization of database, and ensures the transaction-level ultimate consistency at the source and target of database by strict validation during synchronization process.

Meanwhile, It provides advanced functions such as secondary database takeover, incremental back cut, and helps user realize data integration.

## Key



The setting of multiple rules improves the overall usability of the system.



DDL/DML can achieve all-in-one real-time synchronization



High Redundancy



Support multiple mapping methods



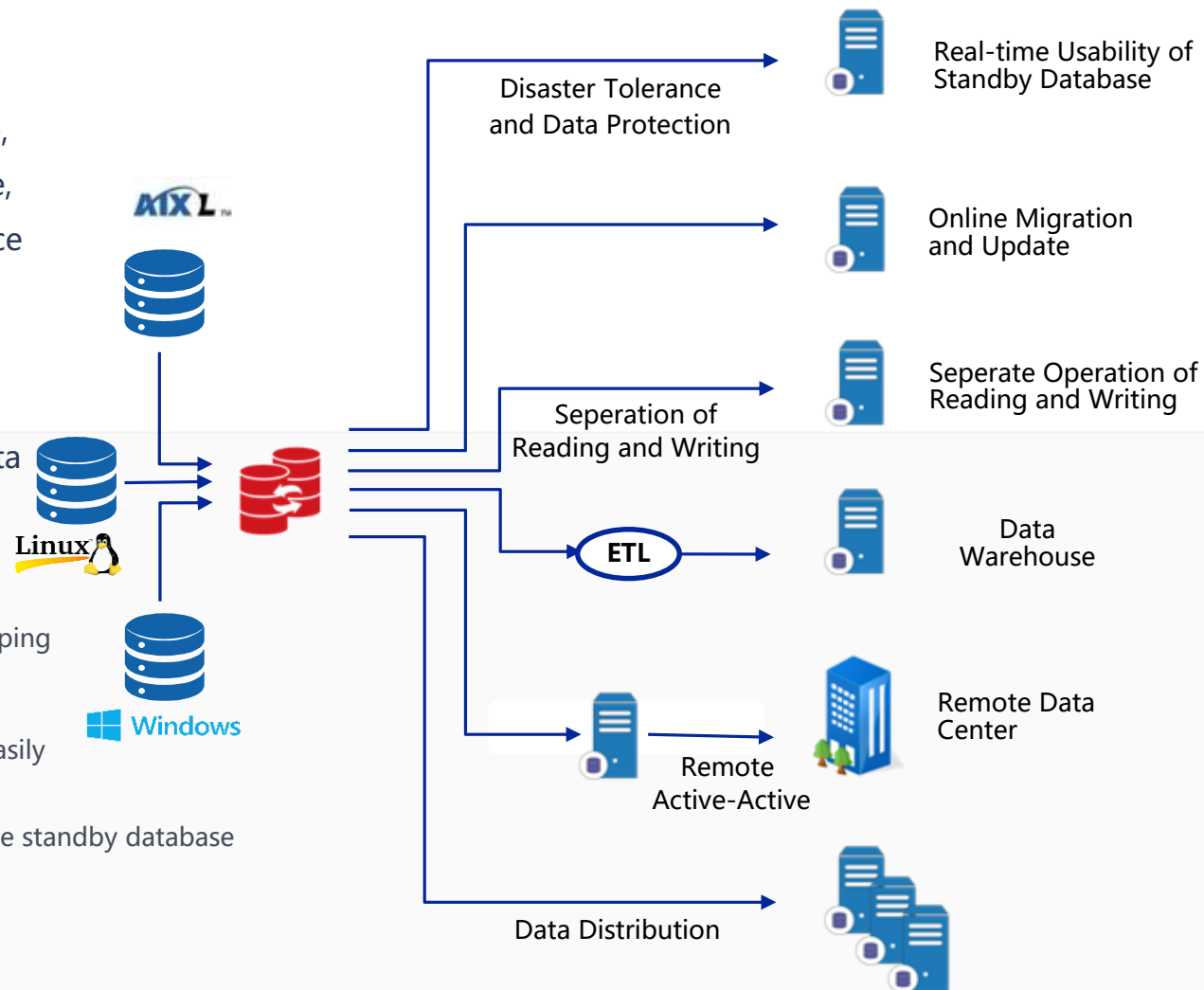
Failover quickly and easily



Dynamic loading of the standby database



Operating easily



# i2CDP

CDP (Continuous Data Protection) records & archives the data change in log manner simultaneously while replicating data to the disaster recovery center. When the system exception occurs, the time stamp to recover data back can be quickly identified and user can restore data to the last known good state right before exception.

## Key



Flexible protection strategy



Byte-level replication & efficient algorithm



True CDP, recover data back to anytime



Cross-platform, independent of hardware & Apps.



Graphical monitoring & management

Production



IP Network



DR Site

I/O Events

.....

Wed 8:36am create

Wed 9:13am write

Wed 2:49pm write

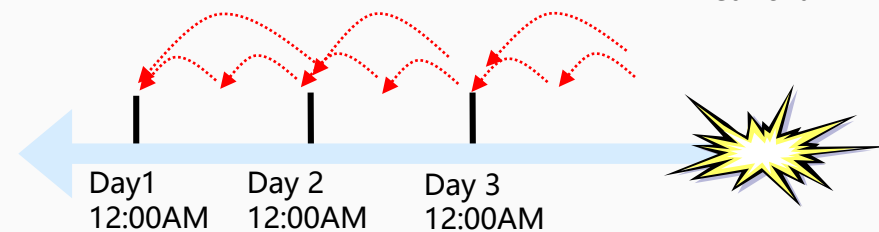
Thu 11:21am unlink



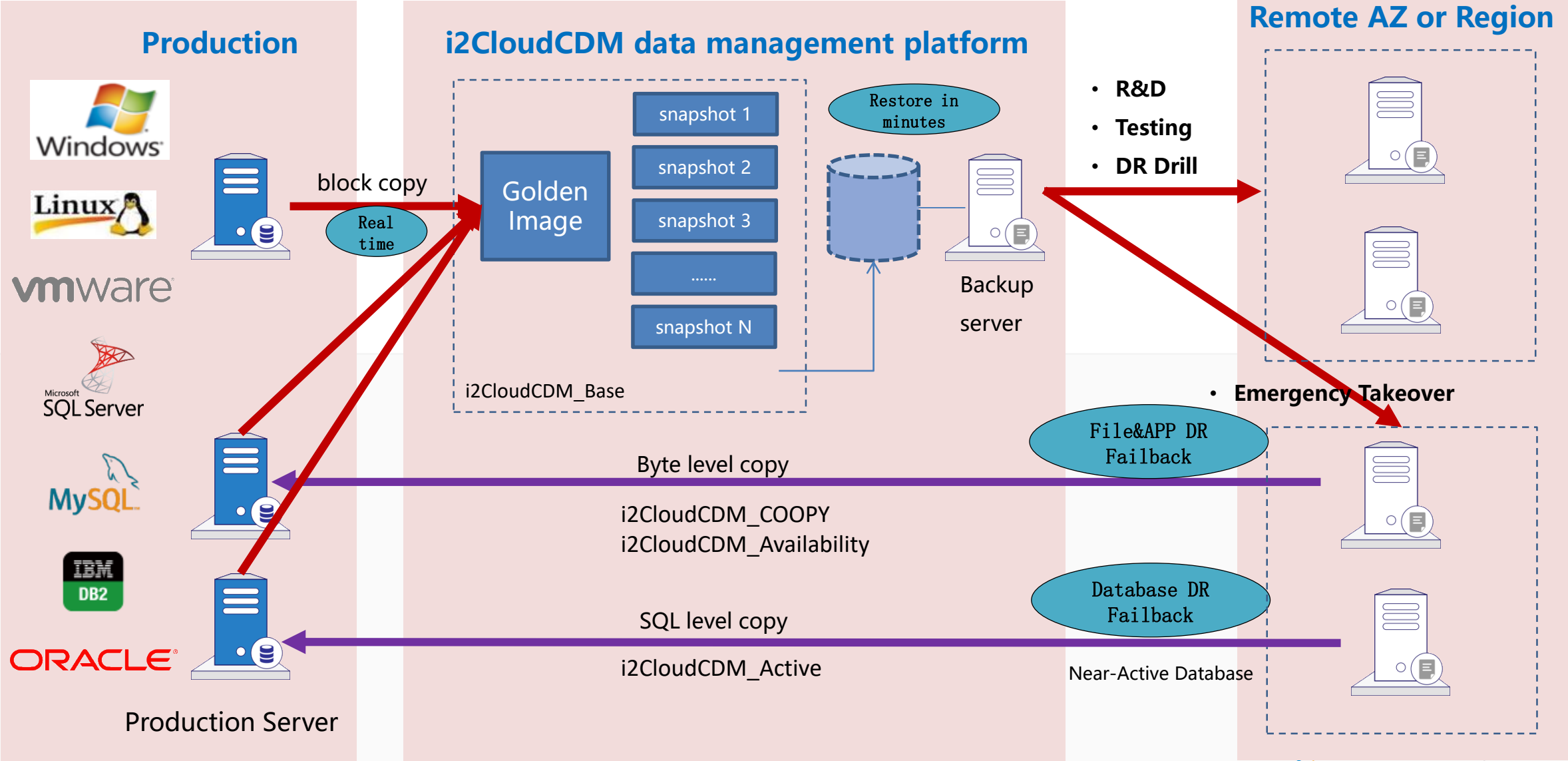
Previous



Current



# i2CloudCDM



i2CloudCDM, Regularly and incrementally back up local virtual machines, physical machines, and public cloud servers to Huawei Cloud. Achieve N to 1 centralized backup. On-demand pull up the cloud server based on snapshot to take over or DR drill.



# i2Backup

i2Backup, a powerful enterprise-level data backup management software, provides a complete data protection mechanism for the mixed environment of Windows and Linux, and protects data backup from work groups to servers. Administrators can manage all of operations for backup and recovery via graphical interface, and formulate a unified backup strategy for enterprises. It can also be applied as backup and recovery solutions for Oracle, SQL Server database, etc.

## Key



Support Multiple Recovery Modes



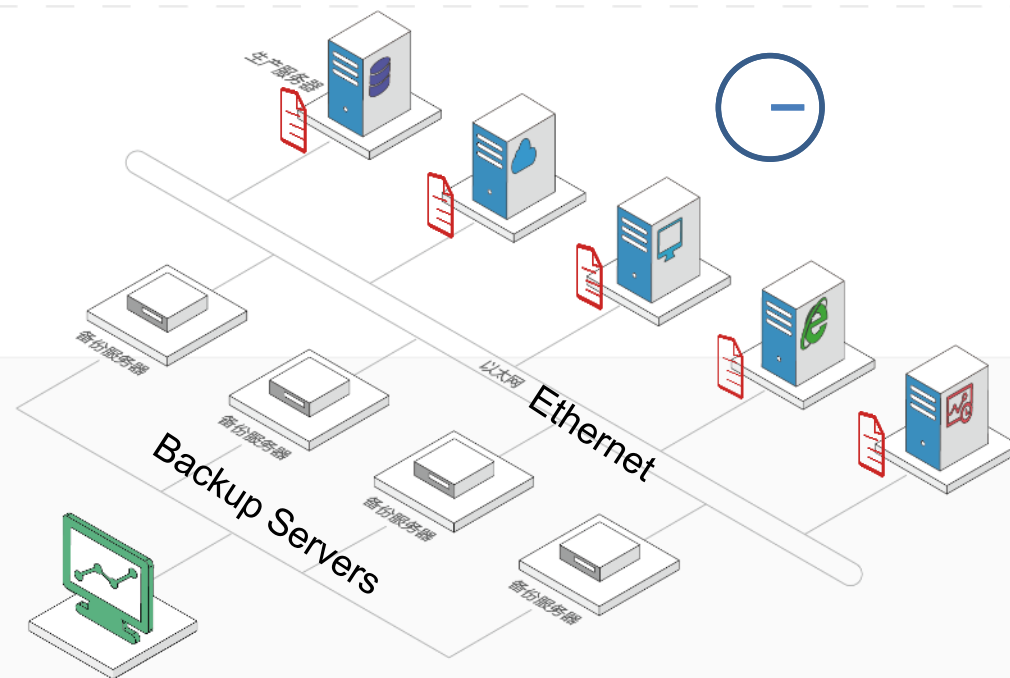
Restoring in multiple ways



extended structure

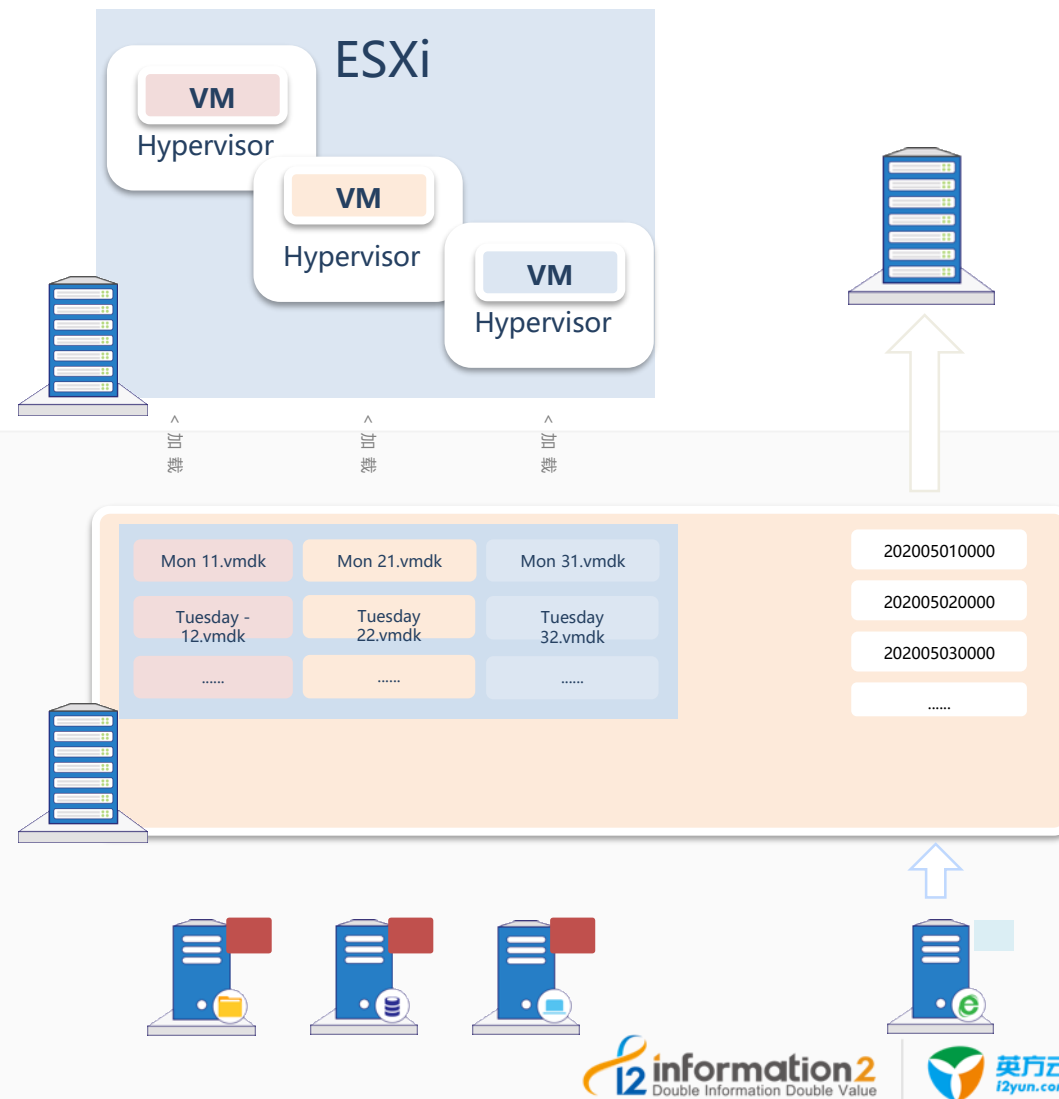


operating easily



# FFO i2FFO

i2FFO Full server backup software, supports Windows/Linux full server backup protection. Either to back up the entire OS to a target directory or save as a vmdk file. Support regular backup with retention policy, to define the number of backup copy. User can restore the full server backup to the original or different machine, or directly load the VMDK file to run as virtual machine..



## Key



Simple and efficient, no backup time window



Good platform compatibility



No downtime and no impact on business operation



Less bandwidth occupation and high data security



i2NAS implements near-real-time I/O event notification for distributed shared directories of NAS. Data synchronization and backup enable customers to backup terabyte data across different NAS platforms w/o limitation.

## Key



More efficient replication w/  
massive data



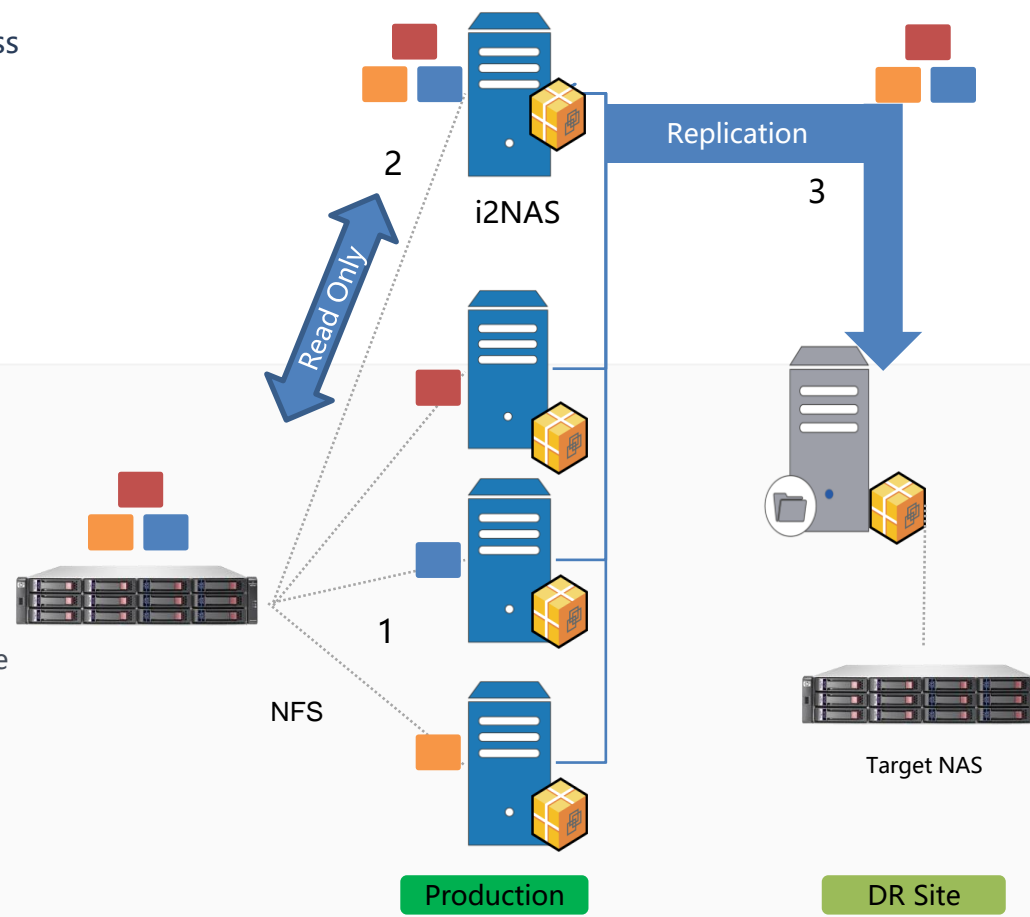
Support remote data replication



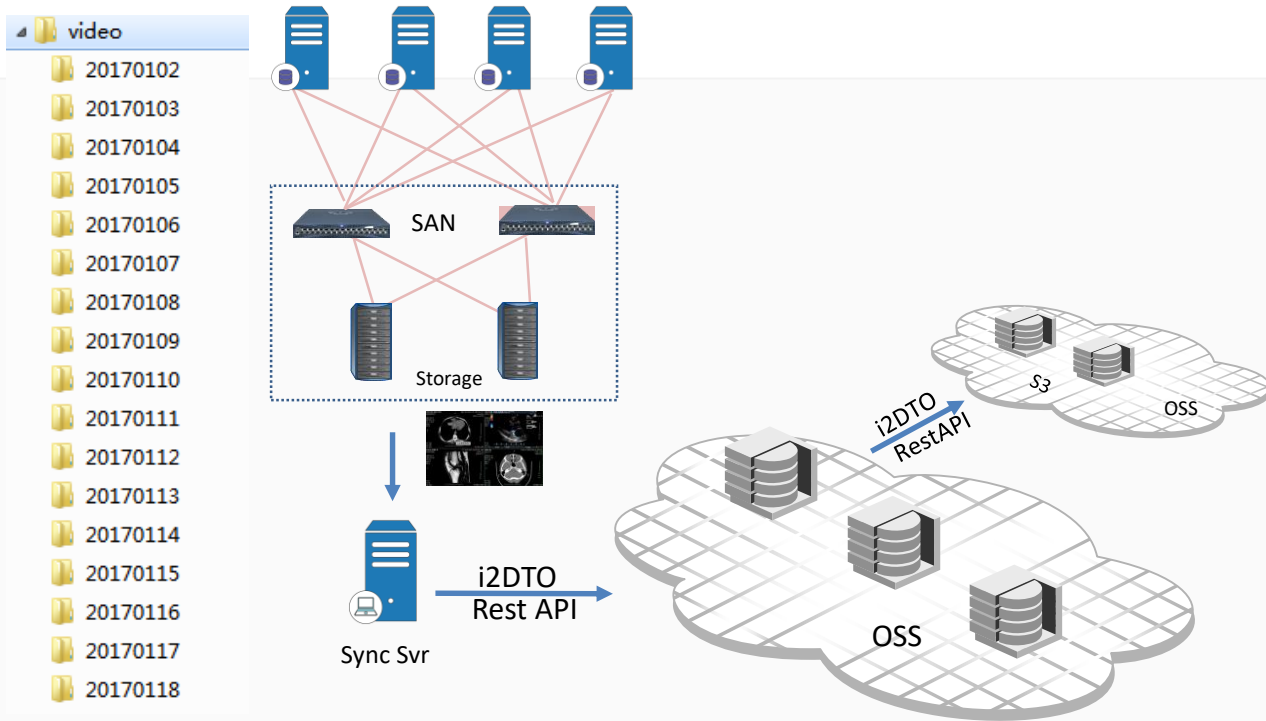
Data backup ready to use anytime






Flexible deployment w/ no interference



i2DTO (Data to Object), Massive data migration software for object-oriented storage scenarios, backup data from traditional NAS to OSS or local, and vice versa. i2DTO supports data comparison between source & target side to assure data consistency, and offer the mapping URL to access the data on OSS afterward.



## Key

-  Compatible with AWS S3, EMC S3, Aliyun OSS, Baidu BOS, ctyun OOS, MS Azure File, MS Azure Blob, Huawei Cloud OBS
-  Support to backup data from OSS 1 to OSS2
-  Data synchronization with 1 minute interval

## 4、Cases study

Stock code:  
6 8 8 4 3 5



# Thanks for Watching



Address: Building 15 Vanke VMO Garden Square, NO.2049 Pujin Road, Shanghai China.

Advice Hotline: 400 - 0078 - 655; Contact: [marketing@info2soft.com](mailto:marketing@info2soft.com)

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