

PRODUCT BROCHURE

nBDR

Next-Generation Backup & Recovery Integrated Platform

nBDR is a professional disaster recovery solution designed for data recovery in private, public, and hybrid cloud environments.

It supports various scenarios with a comprehensive, high-performance platform to protect data and ensure quick and easy recovery.

At a Glance

- Immutable backups on WORM object storage and offline tape
- Built-in DR lab for malware scanning and recovery verification
- Full and incremental VM backup with CDP, agentless and instant recovery
- Server CDP and replication with one-click failover and failback
- Intelligent job orchestration across backup, replication, archiving and migration

1. Platform Overview

nBDR combines secure, immutable backup with smart, complete recovery management in a single platform. The two pillars below summarize how it protects data and keeps recovery simple.

Pillar	Description
Secure Backup	WORM object storage and offline tape libraries make backups immutable, so backup data remains unchanged and protected from tampering by malware. The built-in DR lab performs malware scans of backup data and enables recovery verification.
Smart and Complete Management	Clean backups support various kinds of restores, including any-to-any restores, instant VM restore, granular VM- and OS-level restores, and automatic failover, covering diverse recovery scenarios.
Intelligent Job Orchestration	Backup, verification, replication, archiving, and migration tasks are arranged into automated workflows based on different scenarios, making disaster recovery management intelligent.

Key Points

- Designed for private, public, and hybrid cloud environments.
- Immutable backups (WORM and tape) defend against malware tampering.
- Any-to-any, instant, granular, and OS-level restore options.
- Automated workflows reduce manual disaster recovery effort.

2. Virtual Machine Backup

As an enterprise-level solution, nBDR combines high efficiency, reliability, and scalability with advanced features for data backup, recovery, migration, and ransomware protection.

Capability	Details
Backup Type	Full and incremental backups of VMs.
Backup Frequency	CDP, hourly, daily, weekly, monthly, and schedule-based.
Agentless Backup	Use the API to create image-based backups for every VM by simply adding their hosts.

Capability	Details
Recovery Verification	Verify whether a VM restored from backup can boot successfully in the built-in DR lab.
Instant VM Recovery	Boot critical virtual machines directly from backup images to reduce downtime.
Flexible V2V and P2V	Support V2V across different platforms and convert 10+ operating systems from physical to virtual.
Backup Repository	Cloud-based, S3 object storage, local/internal storage, tape library, SAN, and NAS.

Key Points

- Agentless, image-based protection by adding hosts through the API.
- Recovery is verified before it is needed, using the built-in DR lab.
- Supports a wide range of repositories, from S3 and cloud to tape, SAN, and NAS.

3. Virtual Machine Protection Solution

nBDR provides comprehensive data protection for virtual environments, offering high-speed backups, flexible restores, onsite and offsite copies, and long-term archiving.

Benefit	What it means
Rapid Deployment	Deploy rapidly with no complex configuration required.
Effortless Scalability	Scale effortlessly to support rapid business growth.
Performance at Low Cost	Experience top performance at a low cost.
Regulatory Compliance	Ensure data storage meets regulatory requirements easily.
Low RPO and RTO	Achieve low RPO and RTO for minimal downtime.

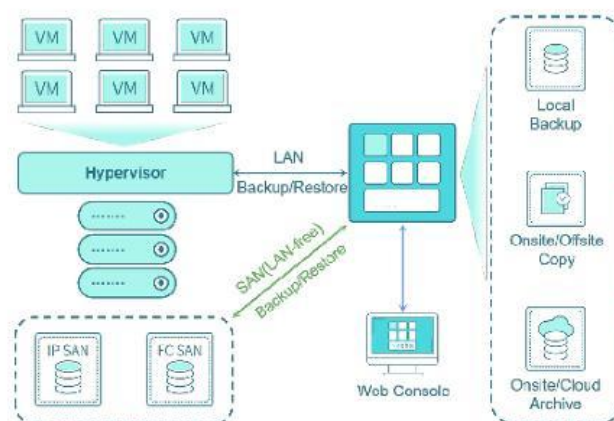


Figure 1: Virtual machine protection architecture

4. Continuous Protection and HA

For companies with high RTO/RPO requirements, nBDR provides Server CDP and Server Replication. With continuous data protection and real-time replication, critical workloads are better protected.

4.1 Server CDP

Server CDP continuously saves machine data to the backup repository and allows any-point-in-time recovery later. Scripts can be set up in the job, and the machine is monitored so that nBDR can automatically take it over in the built-in DR lab if it goes down for any reason.

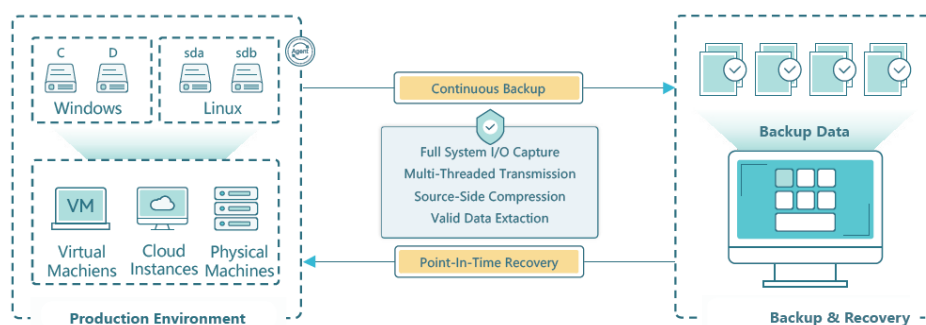


Figure 2: Server CDP workflow

4.2 Server Replication

Server Replication continuously replicates data to a standby machine. It supports script configuration and machine status monitoring for automatic failover and later manual failback. Data protection such as encryption and WORM ensures secure replication. With a single click, VMs can be failed over to the secondary site, and failed back to the primary site. Only incremental data is resynced when failing back from the secondary to the primary site.

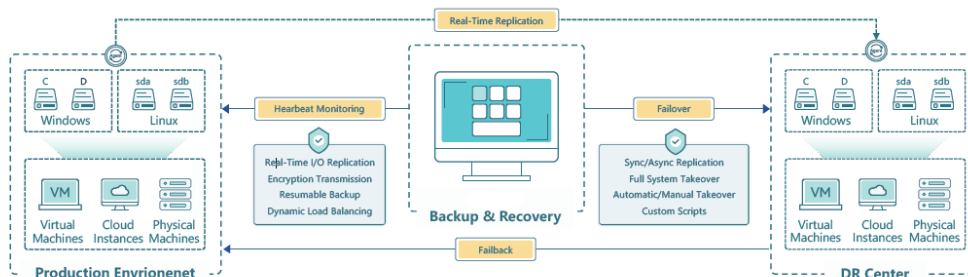


Figure 3: Server Replication and failover workflow

4.3 Compressed Replication

Replication of data between sites is compressed to ensure the least bandwidth consumption on the link between multiple sites.

4.4 CDP vs. Replication at a Glance

	Server CDP	Server Replication
Core function	Continuously saves machine data to the backup repository	Continuously replicates data to a standby machine
Recovery	Any-point-in-time recovery	One-click failover to secondary site; failback to primary
Automation	Scripts and machine monitoring; automatic takeover in the built-in DR lab	Scripts and status monitoring for automatic failover; manual failback
Security	Backup repository protection	Encryption and WORM for secure replication
Efficiency	Source-side compression, multi-threaded transmission	Compressed replication; incremental-only resync on failback

Key Points

- CDP enables any-point-in-time recovery; replication enables fast site failover.
- Failback resyncs only incremental data, saving time and bandwidth.
- Compression keeps inter-site link usage to a minimum.

5. Summary of Key Capabilities

Area	Key Capabilities
Security	WORM object storage, offline tape, malware scanning in the DR lab, encrypted replication
Backup	Full and incremental, CDP to monthly schedules, agentless image-based backup
Recovery	Any-to-any, instant VM, granular VM- and OS-level restore, recovery verification
Migration	V2V across platforms, P2V for 10+ operating systems
High Availability	Server CDP, Server Replication, automatic failover, one-click failback
Storage Targets	Cloud, S3, local, tape library, SAN, NAS
Management	Intelligent job orchestration and automated workflows; web console