



**Hewlett Packard
Enterprise**

HPE BACKBOX AND QORESTOR – ALL-IN-ONE BACKUP SOLUTION FOR THE NONSTOP

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NEWETHNET SOLUTIONS



C-DEEP TRANSACTION MONITORING

- Make decisions based on facts, not feelings
- Simplify administration
- Built on simple but effective principles
- Supports four core visuals that instantly differentiate your offer

HPE NONSTOP NOVA WORKLOAD AUTOMATION

- HPE NonStop NOVA Software is the only Workload Automation manager specifically designed for NonStop that is actively developed around Continuous Innovation principles
- It provides high-performance parallel processing combined with advanced operational control across your NonStop nodes from within a single interface
- NOVA delivers the enterprise-class capability for NonStop users with serious workload requirements
- Compared to NetBatch, NOVA is more customizable and has the benefit of continuous investment in development



MQGATE

- MQGate for HPE NonStop takes source IBM MQ Event Management System (EMS) events and converts them to new, easier-to-identify fully tokenized EMS events.
- MQGate acts as a translator, converting the source IBM MQ events into new, unique tokenized events, making it easier to identify exceptions within your EMS event and alert subsystems.”

HPNONSTOBACKBOX VTC

BackBox and data deduplication



WHY YOU SHOULD CONSIDER

DEDUP STORAGE

Deduplication **lowers storage costs** as fewer disks are needed. It **also improves replication** to disaster recovery site since there's far less data to transfer. Backup and archive data usually includes a lot of duplicate data.

The same data is stored over and over again, consuming unnecessary storage space on disk or tape, electricity to power and cool the disk or tape drives, and bandwidth for replication. This creates a chain of cost and resource inefficiencies within the organization.

Backup		Saving in X			Total GB	Disk	
Size in GB	Nb gen keep	Dedup	Compr.	Total	required	no-dedup	with dedup
5000	1	1.0	2.2	2.2	5,000.00	2,272.73	2,272.73
5000	2	1.8	2.2	3.9	10,000.00	4,545.45	2,597.40
5000	7	3.8	2.2	8.3	35,000.00	15,909.09	4,220.78
5000	52	6.2	2.2	12.8	250,000.00	118,181.82	18,821.17
5000	364	8.5	2.2	13.5	1,820,000.00	1,820,000.00	19,021.17

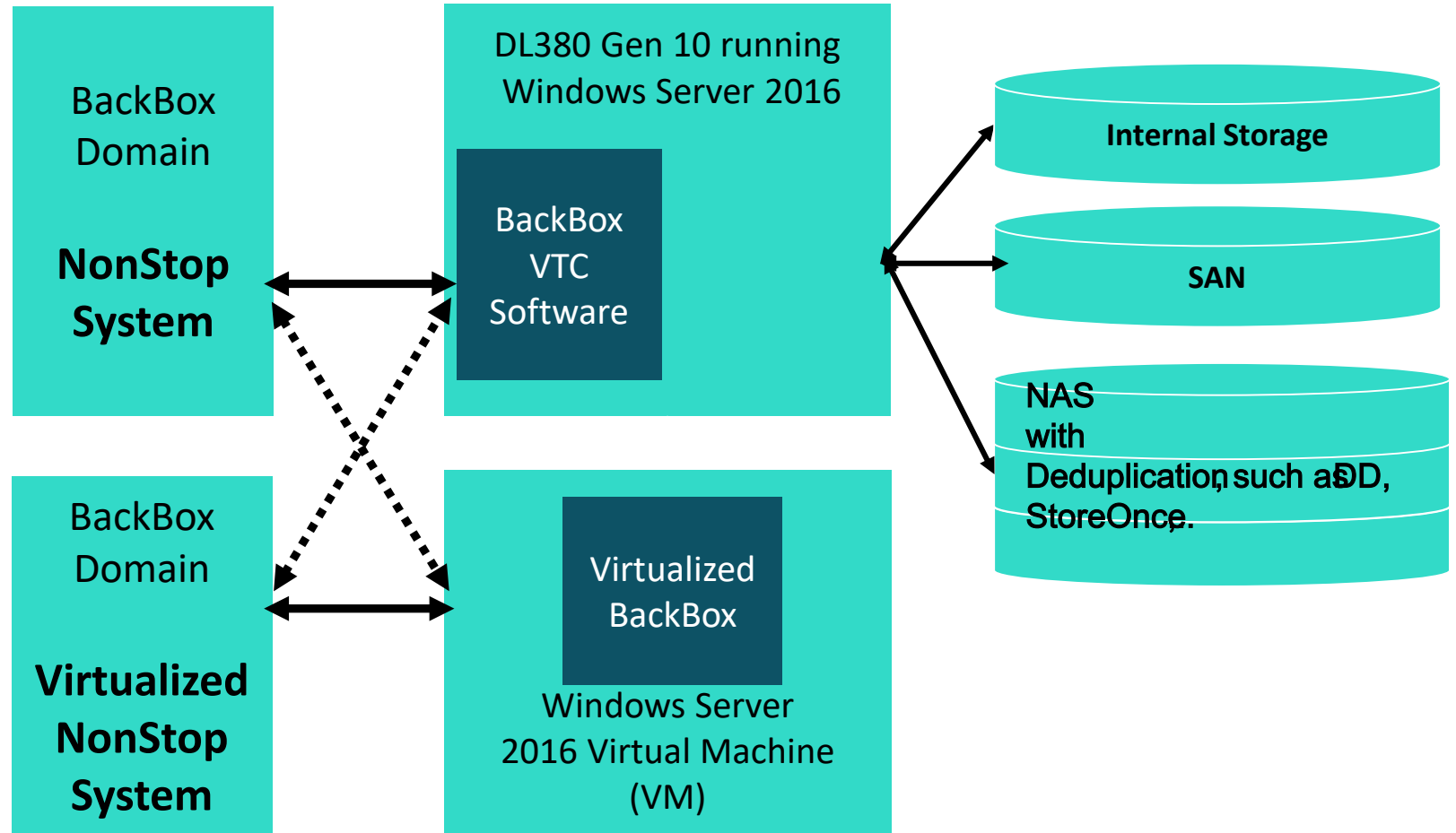
Backup		% Saving storage			Replication T4 link(275 Mbps)
Size in GB	Nb gen keep	Dedup	Compr.	Total	of latest Backup
5000	1	0.0%	54.5%	54.5%	23.3
5000	2	42.9%	54.5%	74.0%	3.3
5000	7	73.5%	54.5%	87.9%	3.3
5000	52	84.1%	54.5%	92.8%	3.3
5000	364	85.5%	54.5%	93.4%	3.3

HPE NONSTOP BACKBOX EMBEDDED QORESTOR™



BACKBOX SECONDARY STORAGE

What BackBox is offering Today

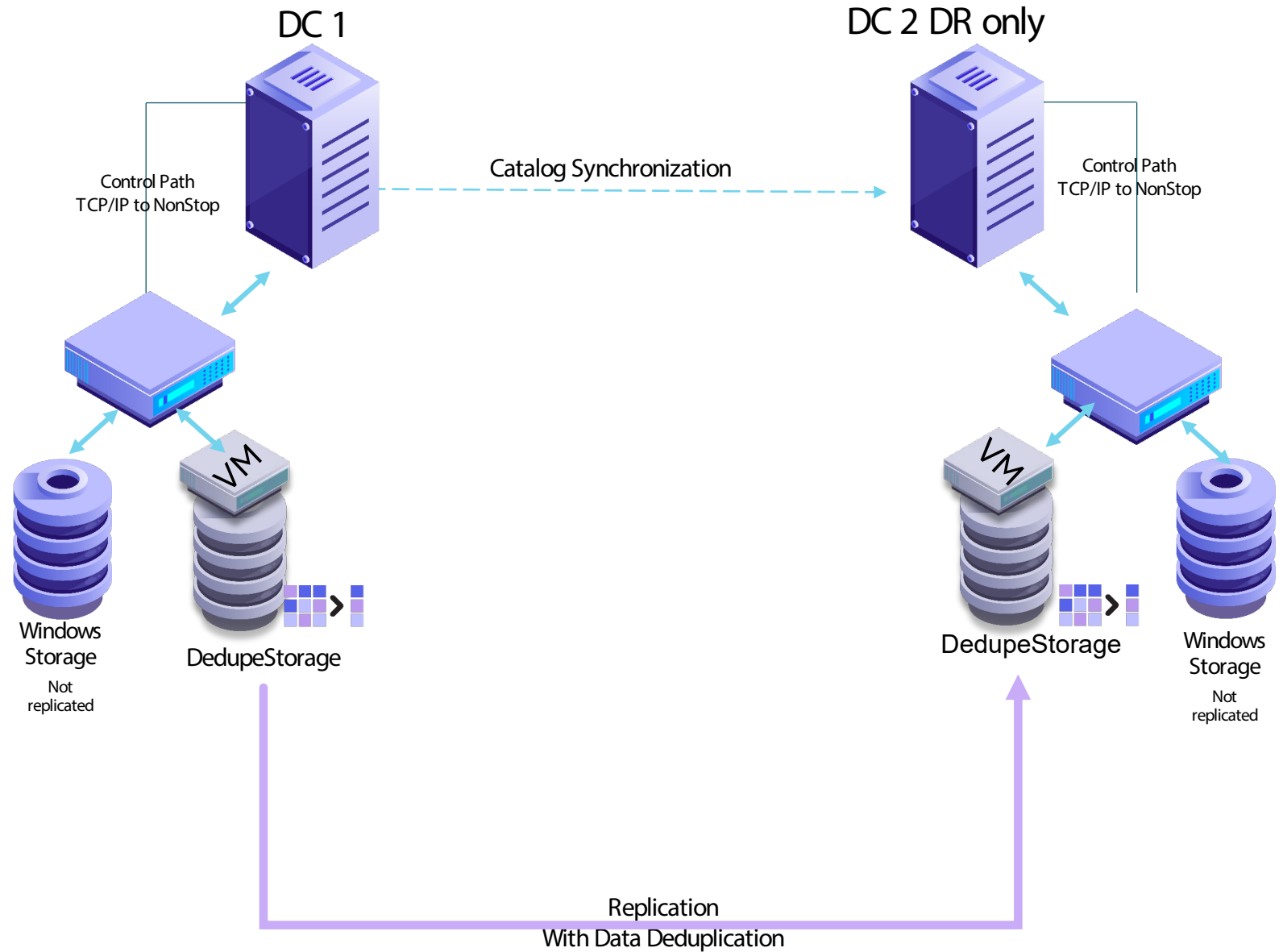


SINGLE VTC WITH HYBRID STORAGE WITH AN EMBEDDED QORESTOR™

A Single server on each site is merging VTC and dedupe storage functionalities

Hybrid storage for more flexibility:

- **deduped** storage for data good deduplication ratio or data having to be replicated
- **un-deduped** storage for other data or simply for expansion

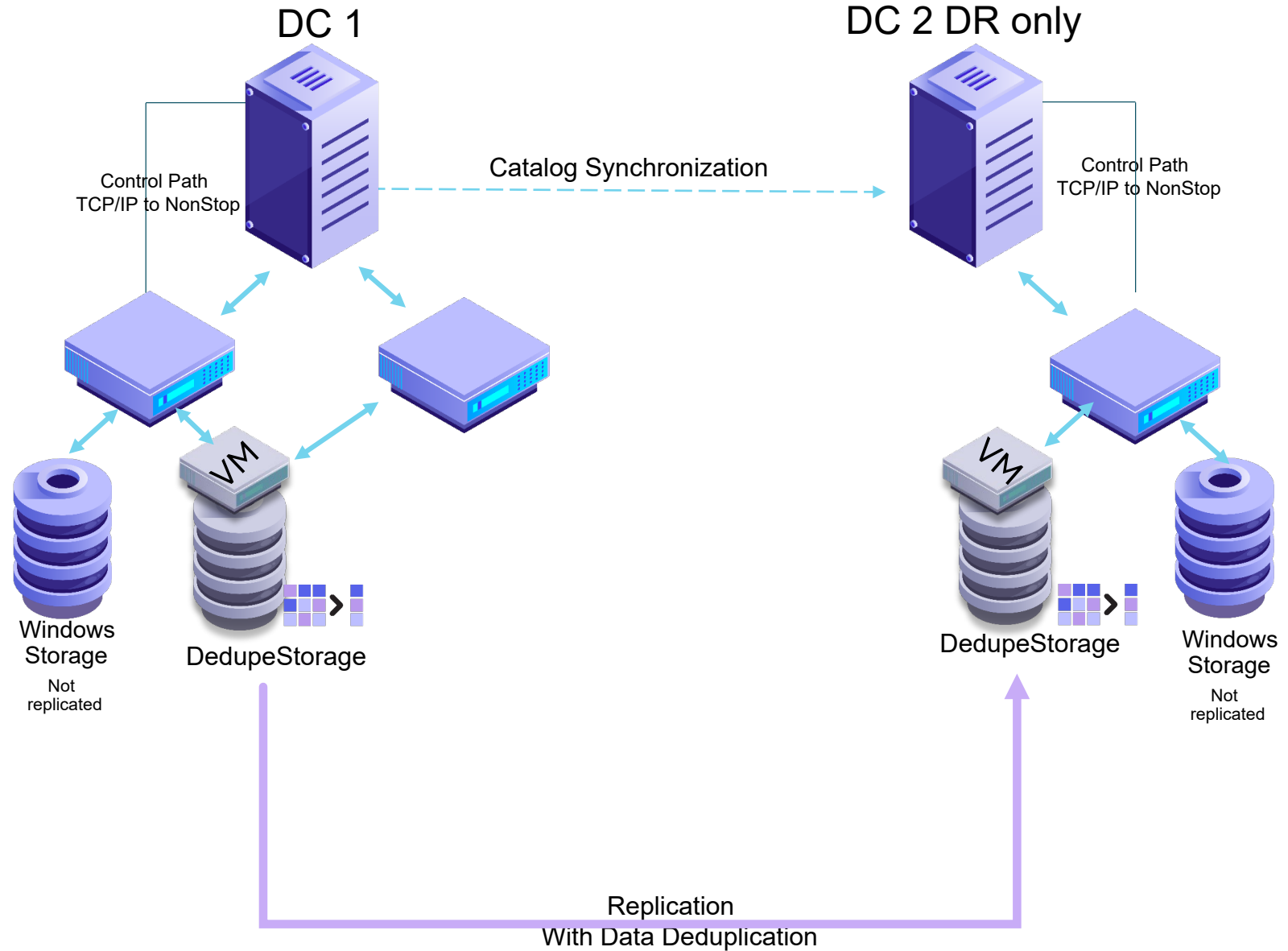


VTC PAIR HYBRID STORAGE WITH SHAREQUESTOR

Nonstop often uses dedicated backup infrastructure

That infrastructure is used few hours per day at less than 20% of its capacity.

Fault tolerance approach is available when needed using multiple VTC and Storage replication

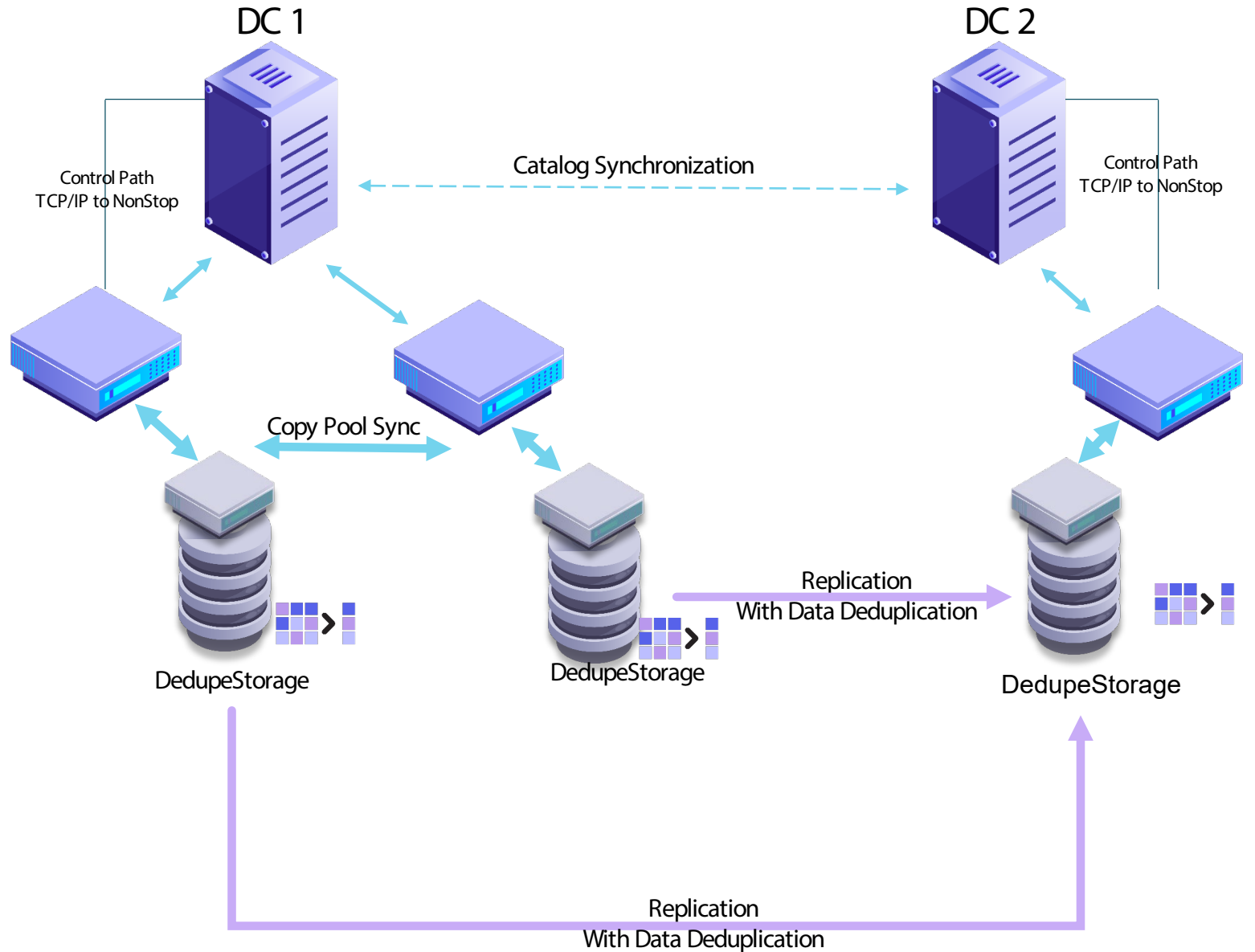


A BETTER FAULT TOLERANCE USING VTC PAIR 3 COPIES

QS Replication many to one for DR

Copy pool sync create a third for fast restore

QoreStor™-RapidCIFS is used to speedup Copy Pool Sync



QoreStor Interface



QoreStor Interface



3:30 PM



QoreStor Interface

The screenshot displays the QoreStor management interface for a replication task named "Cryp2Replicate".

- Navigation:** A sidebar on the left contains menu items: Dashboard, Containers, Local Storage, Cloud Storage, Replications (selected), System, Diagnostics, Users, Events, and Management.
- Page Header:** Shows "Version 7.1.0.245" and "System Status Healthy".
- Replication Configuration:**
 - Source: Cryp2Replicate (bbprodqs.etinet.local)
 - Destination: CrypReplicata_bbprodqs (10.10.20.13)
 - Buttons: Edit Schedule, Stop, Delete
 - Schedule: A weekly schedule with input fields for each day of the week (Monday through Sunday).
- Summary Panel:**
 - Encryption: AES 256
 - State: INSYNC
 - Peer Status: Online
 - Estimated Time to Sync: 0 days 0 hours 0 minutes 0 seconds
- Network Savings:** Two gauges showing 0% for Dedupe Network Savings and 0% for Compression Network Savings.
- Network Throughput:** A gauge showing 0 KiB/s Average and 1 KiB/s Max.



QORESTOR™

Advantages of QoreStor™

- NonStop tape compatibility with large block support
- Advanced pool management to increase availability
- BackBox automatic load balancing over multiple FC ports and VTCs
- Easy to manage and automatic housekeeping
- QoreStor™ storage seamlessly integrated into BackBox ecosystem using CIFS
- Reduce the backup data storage space requirement with deduplication
- Reduce backup/replication window
- Reduce the risk to data at rest with encryption



QORESTOR

Additional Features with QoreStor™

- Less footprint, less power and less cooling
- The VTC and QoreStor™ shares the same storage, providing the flexibility of a hybrid storage solution
- All-in-one pricing includes everything: deduplication, replication, encryption and cloud archiving
- Single technology embedded QoreStor™ is managed using the BackBox VTC management console
- Rapid CIFS client provides source deduplication and fast replication
- Reduces the risk to data at rest and in motion
- Ransomware proofing with r/o data store all the way to the cloud.



QORESTOR™

Benefits with QoreStor™

- Reduces storage requirements and costs
 - QoreStor™ runs on the same VTC server
 - Allows the customer to use the extra VTC capacity
 - Reduces costs and hardware footprint for the customer
- Best price/performance
 - One all-inclusive price for all QoreStor™ features
 - The pricing includes dedupe, replication, encryption and cloud archiving
- Capacity licensing
 - Pay for what you use
- Greatest capacity, flexibility and expansion
 - QoreStor™ license gives 300% more capacity with the cloud Archiving
 - 8TB QoreStor™ storage license includes another 24TB of cloud archiving for a total of 32TB of deduplicated data.
- Only BackBox QoreStor™ can support a mixed storage
 - Supports dedupe and non-dedupe on the same VTC storage platform



QORESTOR

When to use QoreStor™

- When replication is required
 - Replace expensive tapes for off-site backup by replication to DR site or Cloud
 - Reduce network costs with a low-bandwidth replication
- When encryption at rest is required
 - Protect customer backup data with encryption
- Cloud archiving expansion
 - Expand storage capacity with cloud archiving by up to 300%
 - Deduped data moved directly to the cloud without being rehydrated
 - Transfer data 20x faster
 - Drastic cloud storage savings
- When dedupe and regular storage mix is required
 - Use the dedupe storage for highly compressible data
 - Use non-dedupe storage for log files, images, files already encrypted or any other files that can't be deduped



BACKHOME/TSM END-OF-SUPPORT

Backhome/TSM will be end of support by end of 2026

We provide a tool to transfer backup from TSM to BackBox storage.

Contact me for details



THANK YOU

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