



**Hewlett Packard**  
Enterprise

# BACKBOX VTC AND RANSOMWARE PROTECTION

EBITUG 2023  
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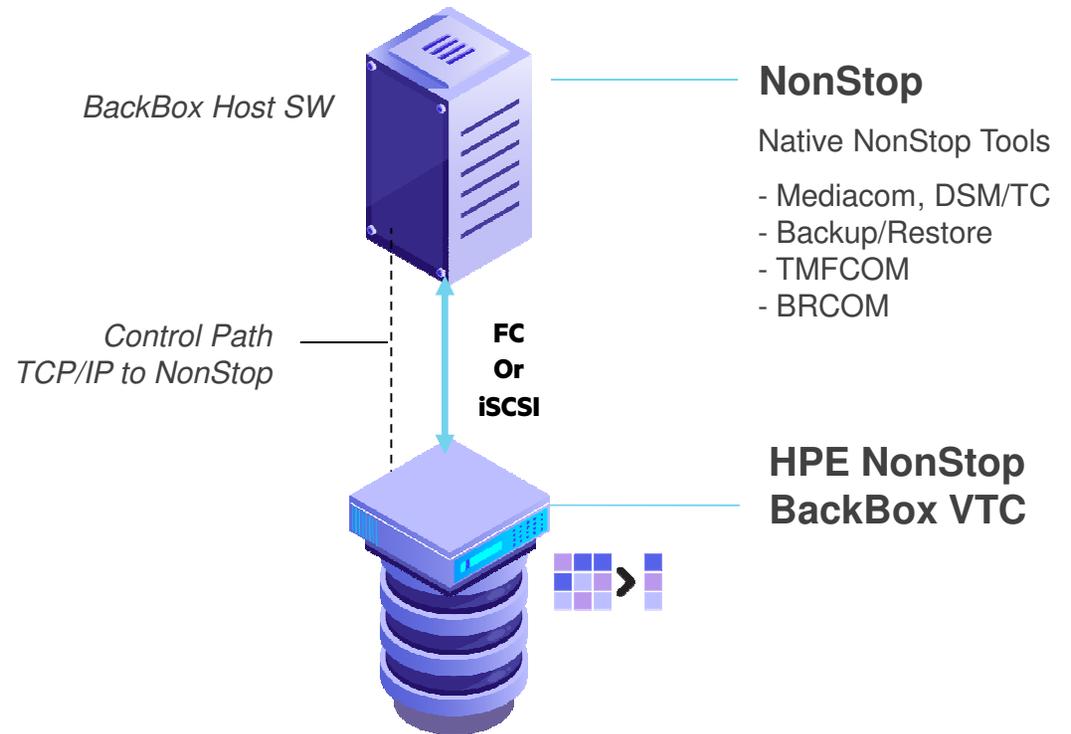
May, 2023

# HOST-BASED CONTROL

With context-free controllers  
**CONTROLLER**

## BackBox Host Software

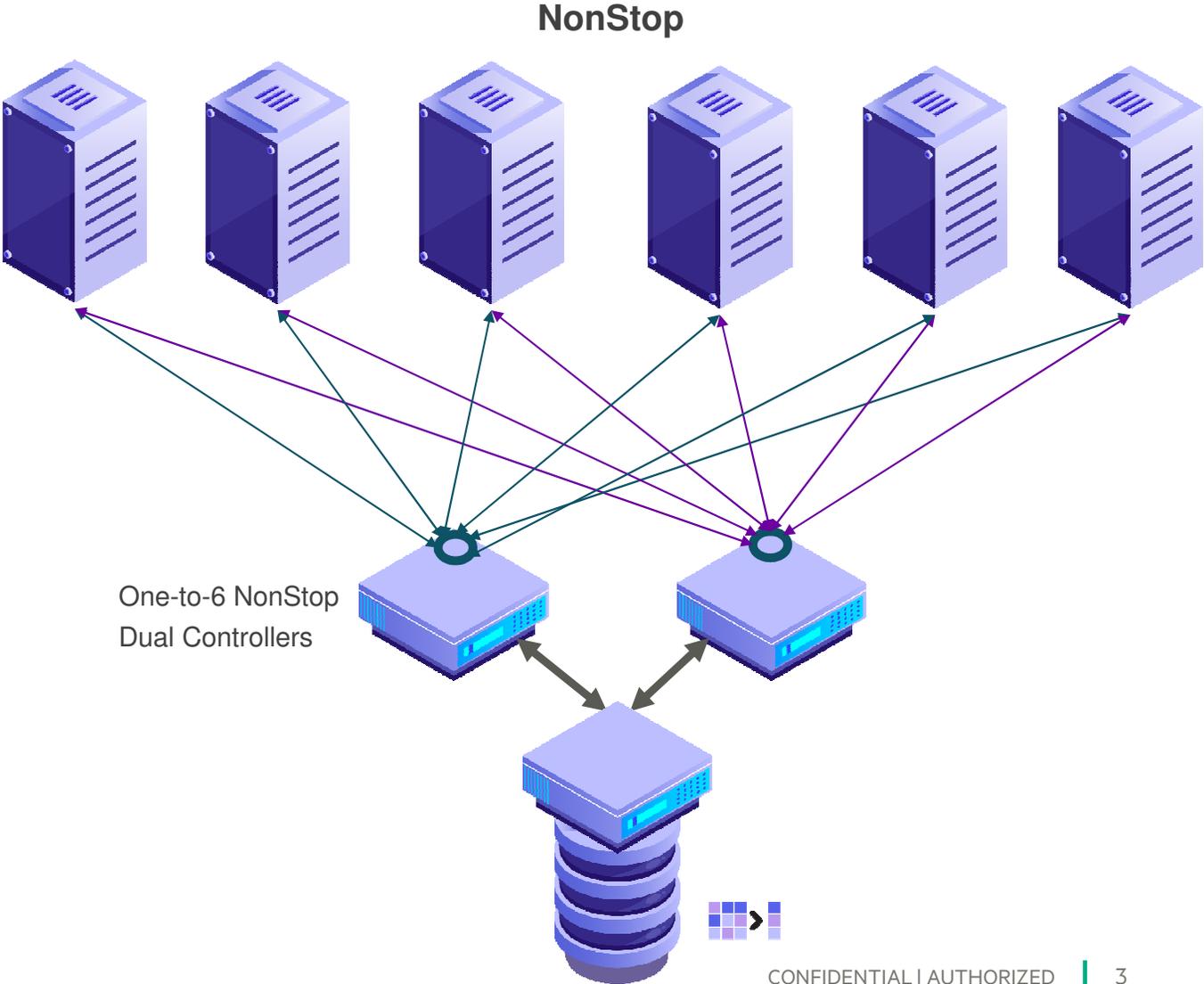
- Domain Manager
- Event Extractor
- Metadata Catalog



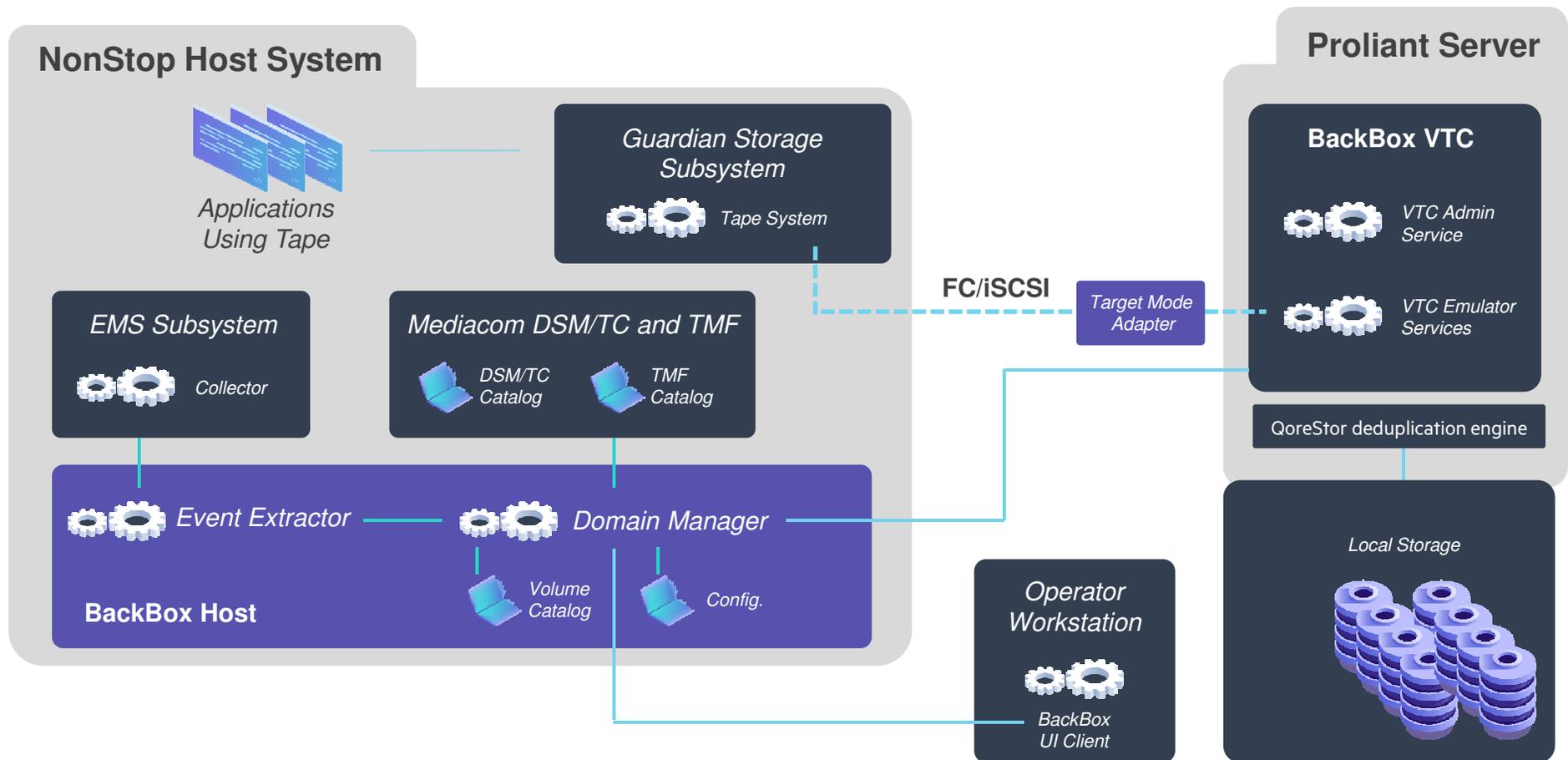
# SHARED VTC PAIR

The same pair of VTC can be share by multiple host providing a fault tolerant architecture.

Large configuration can use more than 2 VTC



# NONSTOP TAPE COMPONENTS WITH BACKBOX & QORESTOR





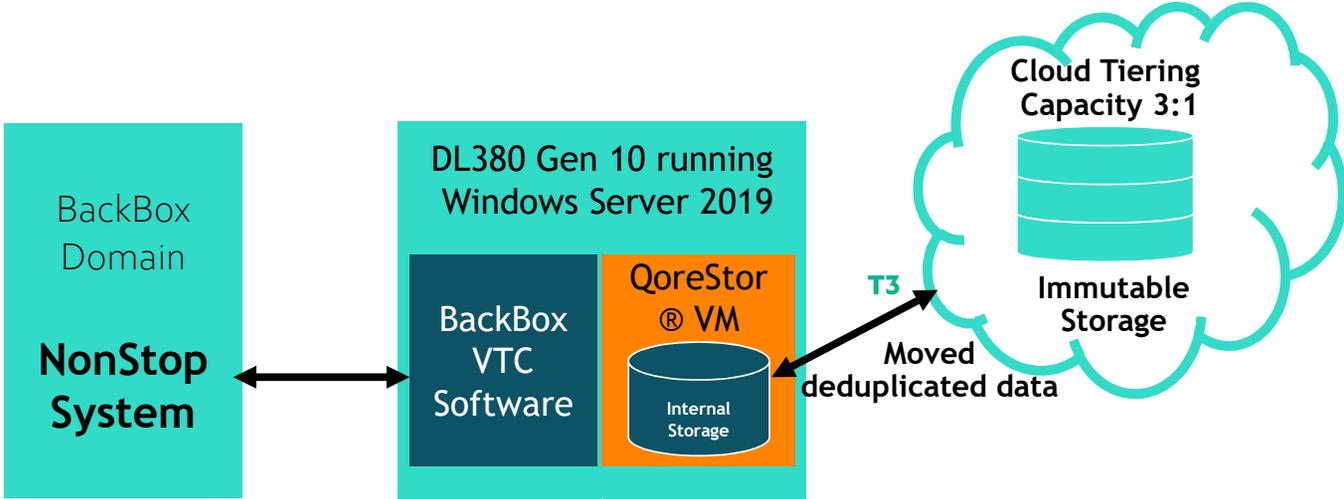
**HPE NONSTOP BACKBOX  
EMBEDDED QORESTOR®**

**SOLUTION FOR RANSOMWARE PROTECTION**





# CLOUD STORAGE EXPANSION



# FAULT TOLERANT OPTION

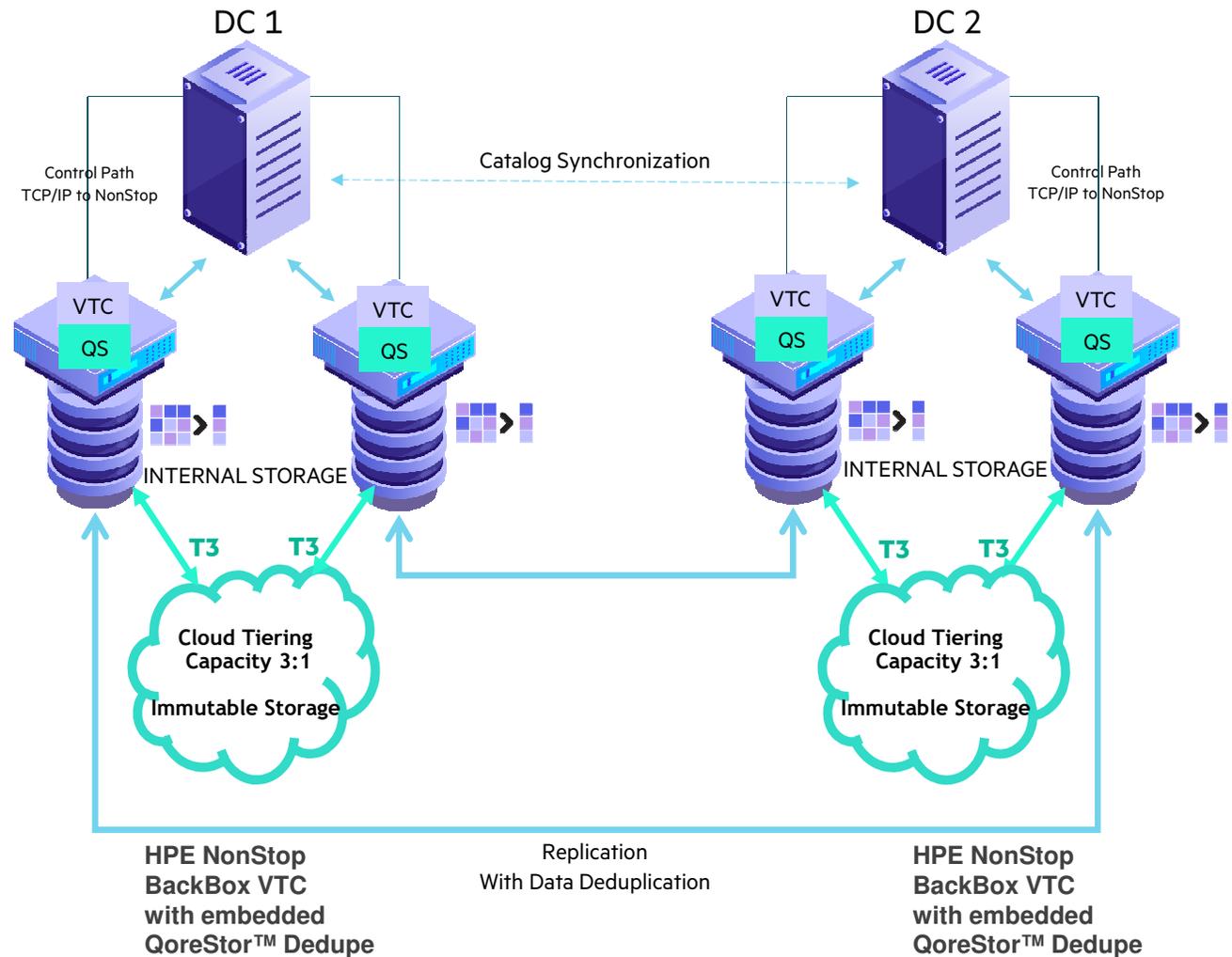
## A BETTER FAULT TOLERANCE USING QORESTOR® ON BOTH VTC

Each VTC has its own QoreStor®

Backup are split on two QoreStor®

Each QoreStor® replicate to its correspondent DR QoreStor®

If a QoreStor® fails during a restore, we use Copy Pool to restore a file from remote storage

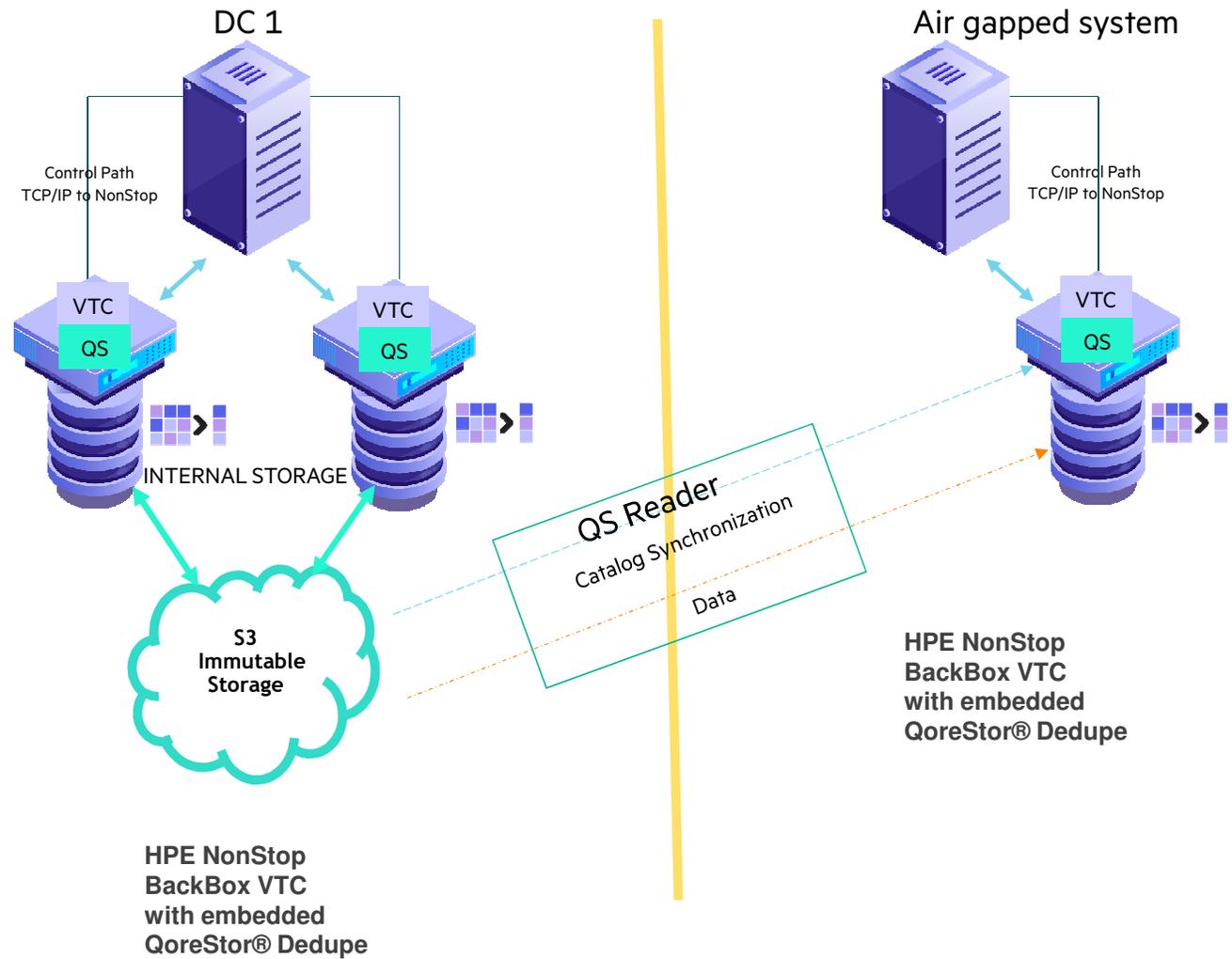


# AIR-GAPPED ENVIRONMENT FOR STAND-BY PRODUCTION SYSTEM

Production backup and catalog metadata are moved to the cloud

They stay on the cloud until needed. At that point the Metadata is reconstituted on the NonStop and the data restored from the cloud.

The QSReader can read data that have been stored by another QoreStor® instance



## **QORESTOR®**

### When to use it

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- When data deduplication is required
- 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



## Additional Features with QoreStor

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- Less footprint, less power and less cooling
- 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 secure and fast data transmission
- Cloud Tier storage increase the storage capacity by 300% - at no extra cost
- Term license available for QoreStor®



# THANK YOU

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