Hewlett Packard Enterprise

GTUG 2018

Latest on NonStop Virtual Backup Products

Sylvain Tetreault COO ETI-NET

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NonStop Enterprise Protection portfolio



Basic backup

Protect and recover data stored on the latest physical tape technology

NS LTO-6 Tape Drives



Protect and recover

Use the most sophisticated solution on the market to protect and recover data with Virtual Tape

HPE NonStop Virtual Tape Controller (VTC)

HPE NonStop Virtual Tape Repository (VTR)



Uptime all the time

Avoid any downtime or outages for your Mission Critical with uni- and bidirectional replication on multiple platforms

HPE NonStop Shadowbase Basic Data Replication

HPE NonStop Shadowbase Advanced Data Replication

HPE NonStop RDF



Data integration

Integrate islands of data in real-time, deliver new business services and operational intelligence

HPE NonStop
Shadowbase Basic Data
and Application
Integration

HPE NonStop
Shadowbase Advanced
Data and Application
Integration

HPE NonStop RDF



Data verification

Verify and compare data stored to ensure data integrity and recovery to achieve audit compliance

HPE NonStop Shadowbase Data Management Utilities

HPE NonStop Shadowbase Compare





The Architecture





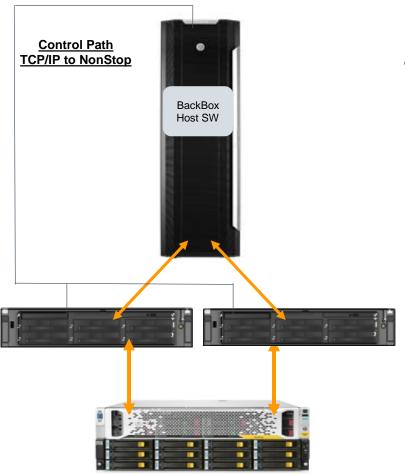
Host-Based Control

with Context-Free Controllers

NonStop

BackBox Host Software

- -Domain Manager
- -Event Extractor
- -Metadata Catalog



Native NonStop Tools

- Mediacom, DSM/TC
- Backup/Restore
- TMFCOM
- BRCOM

HP NonStop BackBox VTC

HP StoreOnce





HP NonStop BackBox VTC How it works





BackBox – NonStop Integration

Integrated with DSM/TC & TMFCOM

- Virtual tapes are automatically cataloged & labeled
- Interlocks prevent accidental media deletion if not SCRATCH
- Captures catalog updates for DR
- Knows difference between volumes for TMF Online Dumps vs. Audit Dumps

Integrated with NonStop EMS

- All events logged there
- Tape mount requests intercepted
- Checks for missed requests

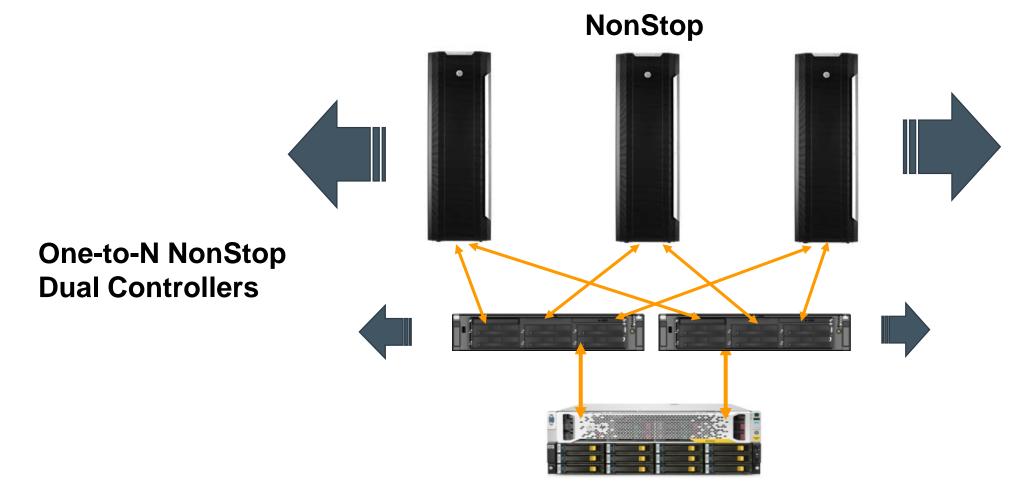
Integrated with NonStop I/O subsystem

Automatically discovers devices defined in SCF during VTC config





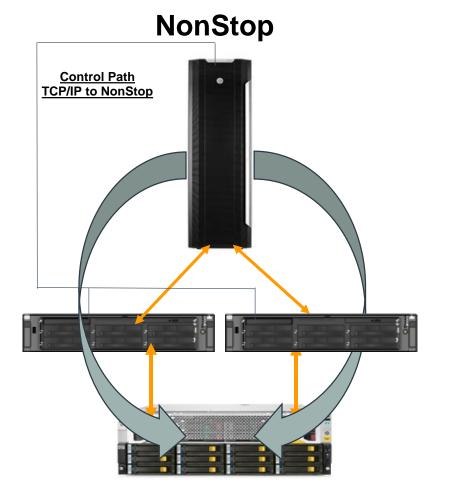
Common Solution for Small to Large configuration







Parallelism = High Performance



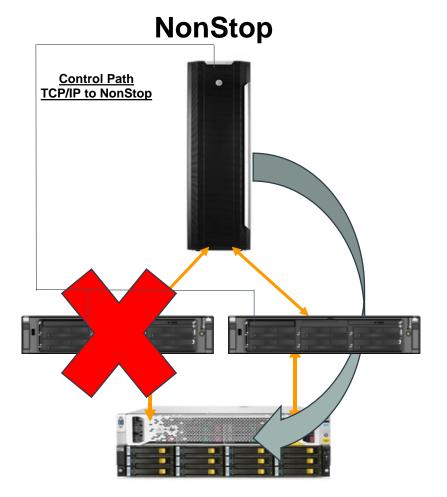
HP NonStop BackBox VTC

HP StoreOnce





Fault-Tolerant without complexity



HP NonStop BackBox VTC

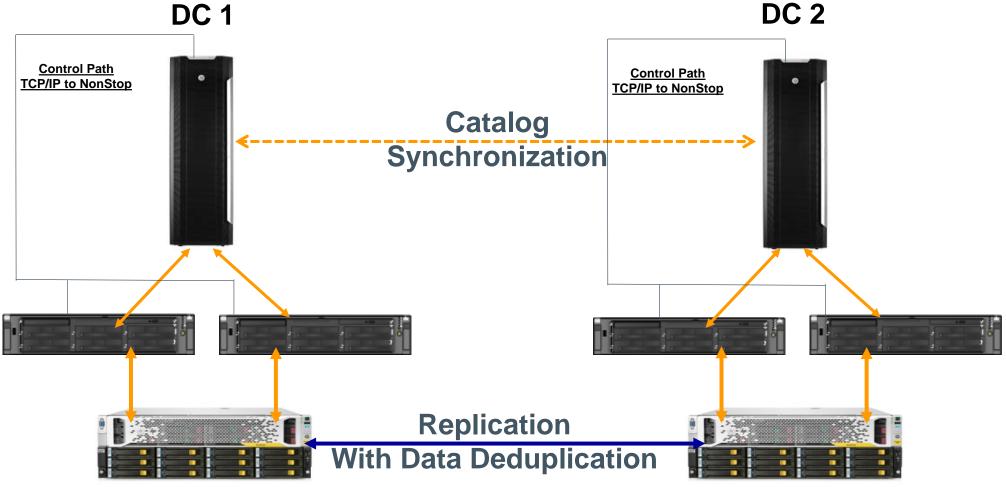
HP StoreOnce





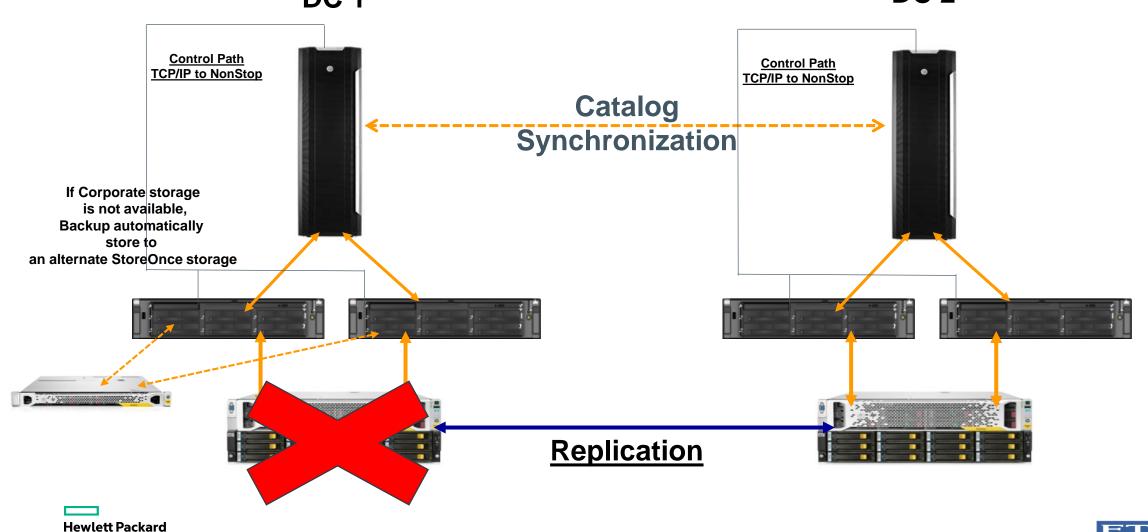
Backup Replication and Catalog Synchronization

Automatic between Primary and Secondary Data Stores Automatic between DSM/TC instances



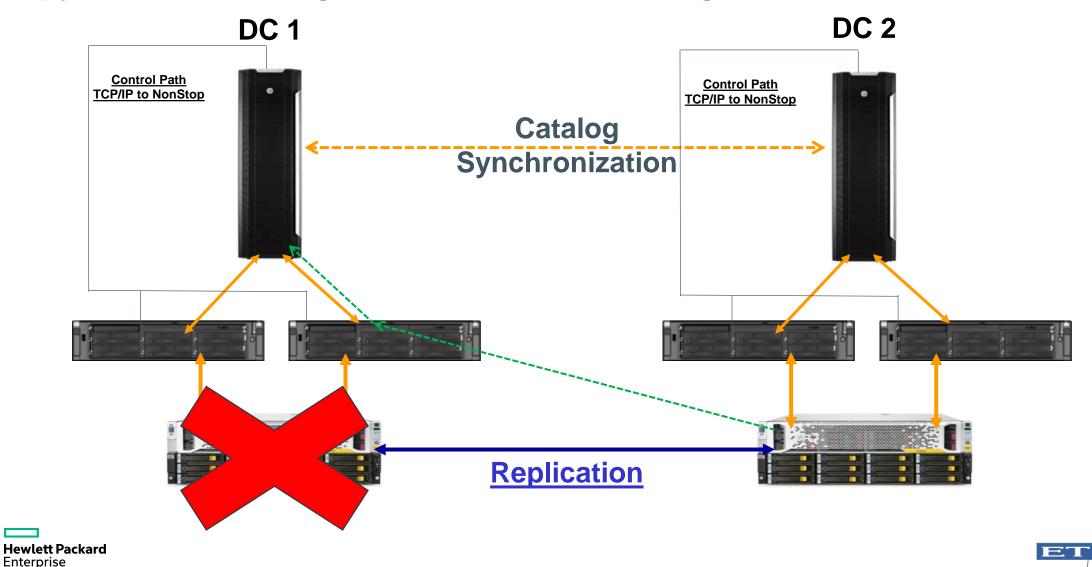


Advanced Data Store Spare Pool - Stand-in storage when main storage is not available DC 1



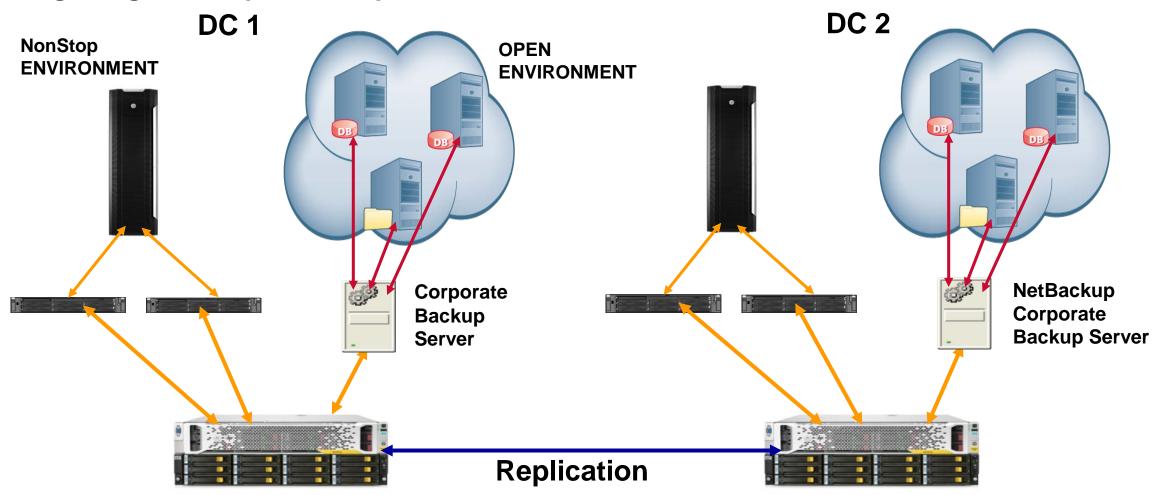
Enterprise

Advanced Data Store Copy Pool - Restoring a file from remote storage



Storage Integration

Integrating NonStop with Corporate HP StoreOnce

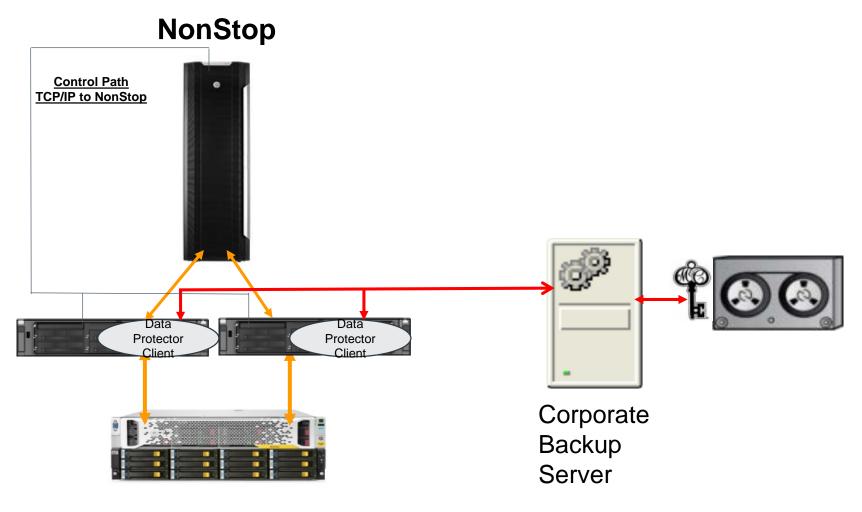






Integration with Corporate Backup

Central archiving, encryption, tape vaulting







HPE NonStop BackBox LARGEBLOCK Support





LARGEBLOCK support

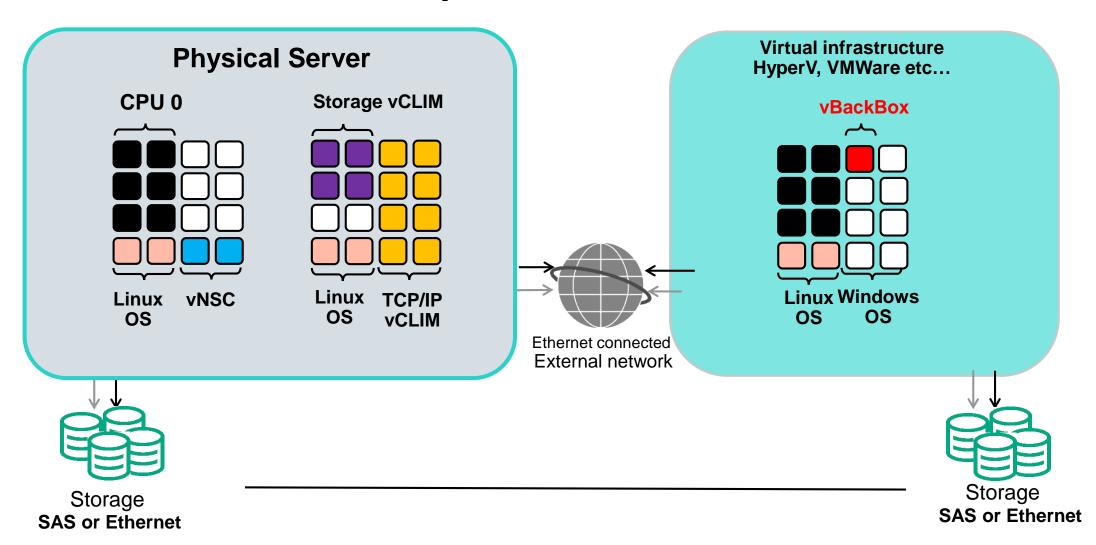
- The VTC now support on both iSCSI and FC the LARGEBLOCK.
- BLOCKSIZE can be an even value in the range 2 through 52, or 224, 448, 672 and 896
- Note that this option also work with regular blocksize without having to be disabled.

HPE NonStop Virtualized BackBox



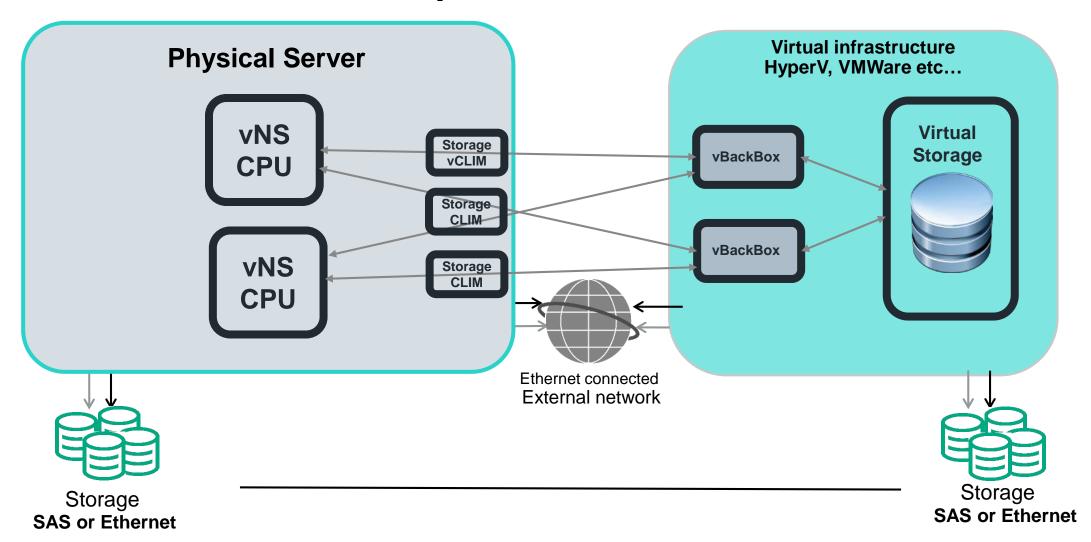


HPE Virtualized NonStop and Virtualized BackBox





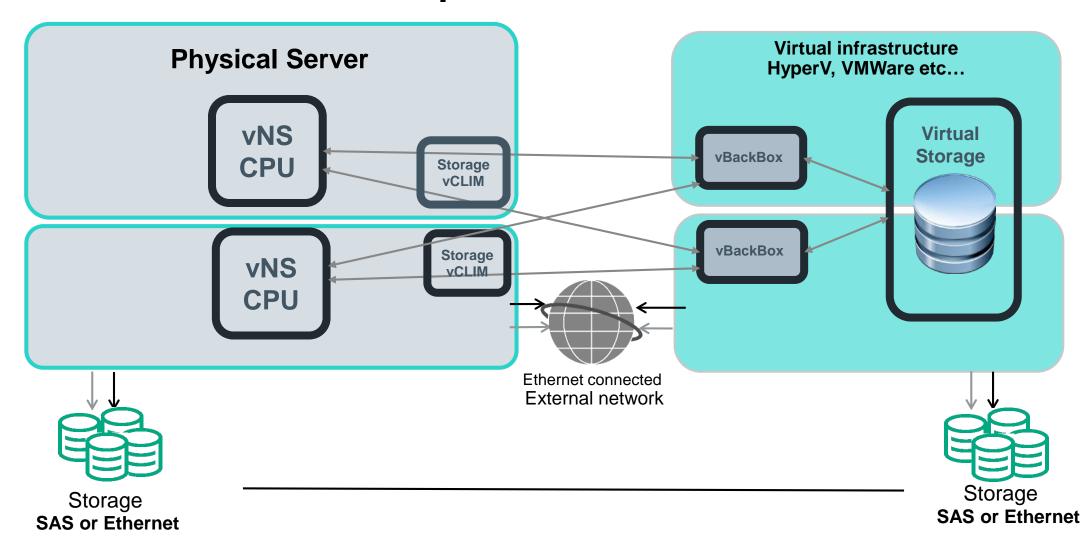
HPE Virtualized NonStop and Virtualized BackBox







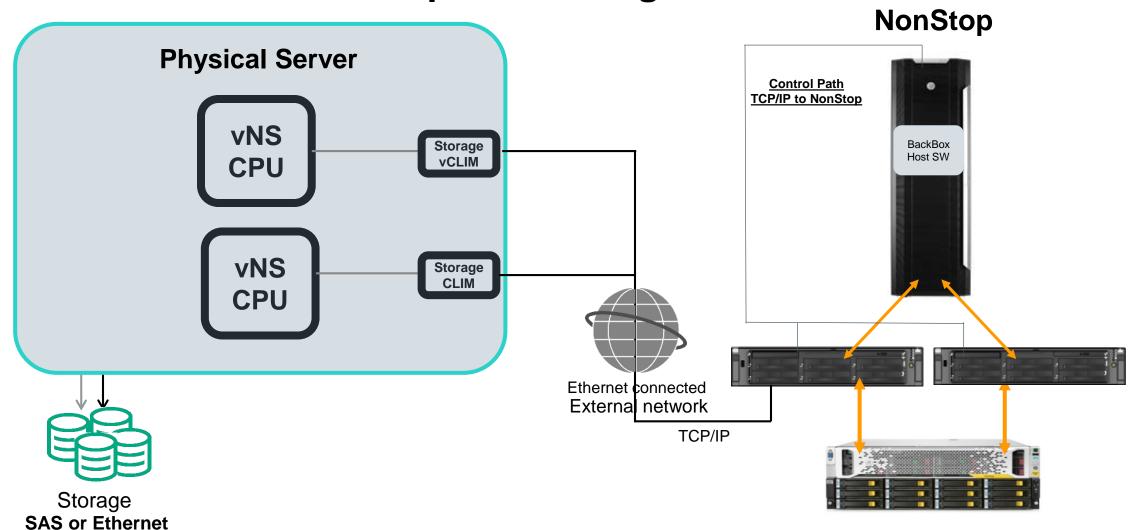
HPE Virtualized NonStop and Virtualized BackBox







HPE Virtualized NonStop connecting to VTC







BackBox - CLOUD READY

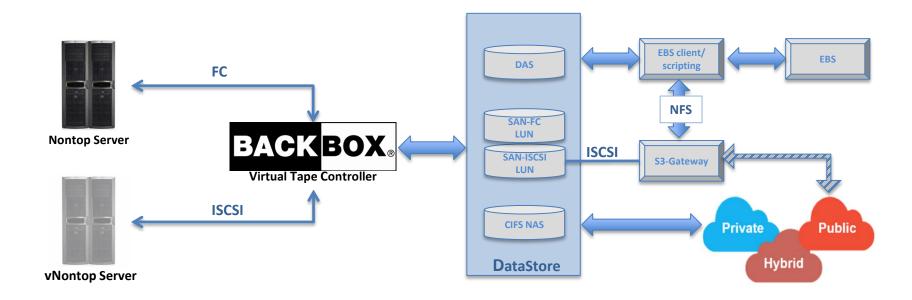




BACKBOX® CLOUD READY

BackBox and vBackBox are now cloud-ready:

- ready to move to the cloud,
- ready to build cloud customized storage solutions,
- ready to transfer NonStop data to any type of storage,
- ready to restore, backup and recover directly in the cloud.









Thank you

sylvain.tetreault@etinet.com

