

StarWind Tape Redirector

Introduction

As virtualization has already conquered the IT environment, a lot of traditional solutions are on the verge of literal death. Tape storage would seem a perfect target to be "destroyed" by virtualization, but the truth is – tape will never die. With better TCO compared to any disk technology and active regulatory requirements, tape technology is only upgrading all the time. StarWind offers a convenient interface for tape libraries, merging them with virtual environment.

Problem

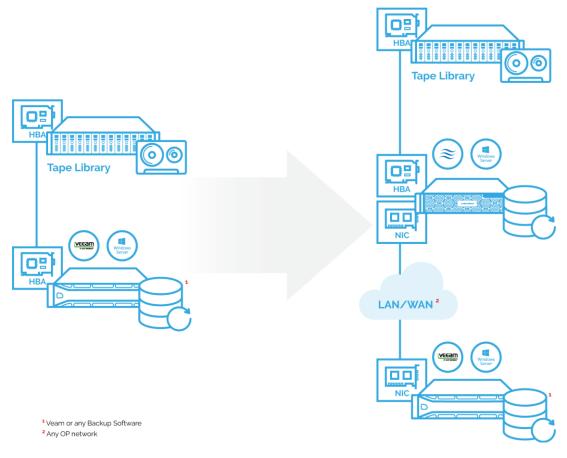
Physical cable length limits the usage of FC, SAS and SATA interfaces, restricting the distance between backup software and tape libraries. As it is not reasonable to install tape libraries in every datacenter, sometimes it's impossible to implement tape backup even if all datacenters are in the same premises.

Either performing P2V migrations or building virtualized backups from scratch, it's almost impossible to preserve the initial backup infrastructure. Backup software running in VMs cannot communicate with tape hardware because guest virtual machines don't have direct access to tape drives and tape autoloaders. Thus, there's no way to perform backups without serious changes being applied to the backup infrastructure.

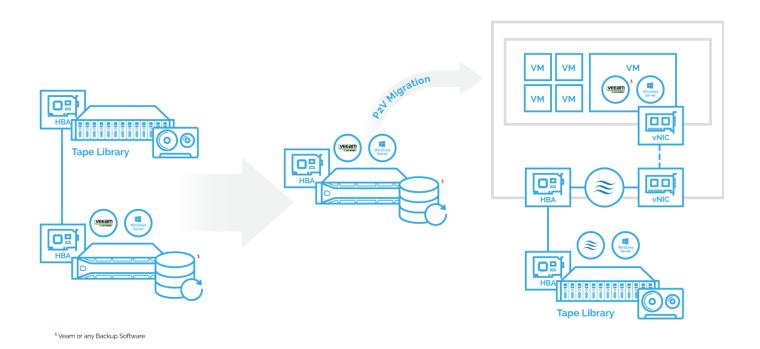
Solution

StarWind Tape Redirector is installed on a server with the attached tape drive, creating an iSCSI "gateway" to a tape library. Thus any backup application located on a remote server can transfer the data to the tapes over LAN or WAN using SCSI over TCP (iSCSI) protocol. StarWind Tape Redirector acts as a translation layer between virtual machines and the tape library, providing a VM solution with the interface for accessing the tape hardware. As a result, VMs gain access to the tape drives and perform backups directly to the tape library via iSCSI in loopback.

WHITE PAPER 1



StarWind Tape Redirector allows the use of LAN or WAN to eliminate distance limitation of tape backup hardware



StarWind Tape Redirector gives VM direct access to tape library

WHITE PAPER 2

Conclusion

StarWind Tape Redirector resolves the distance limitations issue between the backup server and tape drive, transferring backup data over any IP network using iSCSI. It also preserves the existing logical backup infrastructure when performing P2V migration and building virtualized backup system. VMs have direct access to the tape library via iSCSI as if it had been locally attached, and interacting with tape drives and loaders.

To learn more, visit www.starwind.com

©2018 StarWind Software, Inc. All rights reserved.

WHITE PAPER 3