

Cloud-powered Virtual Disaster Recovery (VDR)

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- ❑ Traditional Backup Environment
- ❑ Backup vs. Recovery
- ❑ What is VDR?
- ❑ Disaster Recovery (DR) Strategy & Plan
- ❑ How much does VDR cost?
- ❑ VDR Data Access, Checklist, and Cost
- ❑ Availability
- ❑ Questions



Traditional Backup Sw. Not Designed for Cloud-powered VDR

- ❑ Traditional Backup software uses a Client Server Backup
 - ❑ Requires a client software (Agent) on each server resulting in agent proliferation
- ❑ Mgmt overhead is high with agent based solutions
 - ❑ Agent upgrades are manpower intensive and app. disruptive
- ❑ The agent proliferation problem gets exacerbated in virtual environments
 - ❑ Agents running on each VM
 - ❑ Replication on each VM



Avoid islands of Backup solutions

- ❑ Disparate Backup solutions for virtual and physical environments
 - ❑ One backup solution for the physical and another for your virtual machines
 - ❑ Different methodologies, management, GUIs, and databases

It's like going to one dentist for your upper teeth and another for your lower teeth

Insist on any-to-any backup and recovery: Physical-to-Physical (P2P), Physical-to-Virtual (P2V), Virtual-to-physical (V2P) and Virtual-to-Virtual (V2V)

What is your DP Strategy?

- ❑ Review your data protection strategy often
 - ❑ Is it long term and sustainable?
 - ❑ Is it future proof?
 - ❑ Does it protect the end point they have today as well as future end points
 - ❑ Can it scale with their future growth?
 - ❑ Does that protect them against data loss due to:
 - ❑ Hardware failure (hard drive, server, system, RAID set, etc.)
 - ❑ Human error
 - ❑ Malware
 - ❑ Natural disasters



How often do you update / refresh your DP Strategy?

What is your DR Plan?

- ❑ Not having a DR plan is like dying without a will
- ❑ Backup is the means to an end but not the end
- ❑ The worst time to find out that you cannot recover your data is when you need to recover it
- ❑ The odds of successful data recovery increases by an order of magnitude with having a DR plan



How often do you test your DR plan?

What are the Goals and Priorities of your DR Plan?

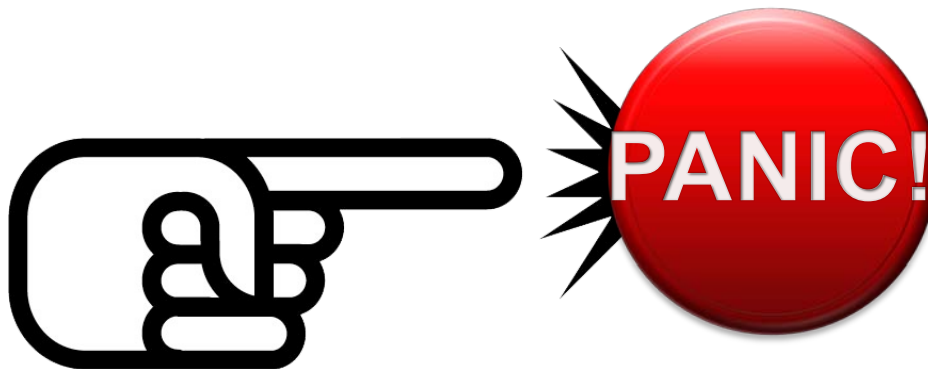
- ❑ RPOs – which apps do you want to bring up sooner than others
- ❑ RTOs – how fast do you want to bring up your apps.
- ❑ Access method to your apps.



Without specific goals your DR plan is not tangible.

What Steps do you Execute to Follow your DR Plan?

- ❑ Are those steps scripted?
- ❑ Do you conduct DR drills?
- ❑ What is your Process for Testing your DR Plan?



How Often do you Review or Change your DR Plan?

- ❑ Every three months you DR plan WILL change
- ❑ The following will change in your datacenter every 3 months:
 - ❑ Applications
 - ❑ Databases
 - ❑ Devices



The only constant is change itself?

Make your SP your Partner

- ❑ Sit down with your Service Provider (SP) to review your:
 - ❑ DP Strategy
 - ❑ DR plan – what it is? And what it needs to be?
 - ❑ RPO & RTO objectives
 - ❑ SLAs – for normal recoveries and for disasters
- ❑ Review with your service provider which of your apps are mission critical to you and the associated RPOs/RTOs for DR & BC
 - ❑ Trust your SP – most people trust their doctor



Do you want to be on your own in case of a disaster?

VDR – What are we Talking About?

- ❑ **Virtual Disaster Recovery** = Utilizing Virtualization to minimize infrastructure requirements for Recovery = Application Recovery
- ❑ **Virtual Data Recovery** = In case of a data loss, spin up another VM and recover your data to it



VDR is Internal and External Cloud Capable.

What is Virtual Disaster Recovery?

- ❑ Hot site vs. VDR
- ❑ It's not about "backup",
it's not about "disasters",
it's about RECOVERY of your data
it's about RESTORE to bring you back from a
data loss DISASTER



VDR is about INSURANCE and ASSURANCE.

How is VDR enabled?

- ❑ If your data was backed up as VMs ...
- ❑ Your SP has VM image of your data w/ your apps
- ❑ It is as simple as spinning up a VM with your data



- ❑ Access to your data is via any secure external network
 - ❑ RDP
 - ❑ VPN
 - ❑ Opening up ports in a firewall
- ❑ You can access your VDR data from anywhere you have internet access
 - ❑ Home office
 - ❑ Internet Cafe / Starbucks
 - ❑ Library
 - ❑ ...



VDR Checklist

- ❑ Some software is not well suited for VMware environments
- ❑ Your data is encrypted in the multi-tenant environment – requires encryption key(s), temp. Key(s) or key(s) escrow management
- ❑ If your data was backed up as physical rather than virtual, VDR is a bit more tricky



How much does it cost?

- ❑ Typically stipulated in the agreement between end users and the SP
- ❑ VDR is activated w/ the declaration of a Disaster by the end customer
 - ❑ Since you use the SPs equipment and facilities in a VDR – in reality it is cheaper than doing it in-house
 - ❑ Analogous to a flat tire on the highway



VDR is Health Insurance not Life Insurance.

When is this Available?

Available now

- ❑ Since VMware and BMR were released
- ❑ SPs have been offering VDR since '03-'04



- ❑ Build a data recovery strategy and plan
- ❑ Review, test, and update it often
- ❑ Partner with your Service Provider
- ❑ Ensure adequate data access points for your employees

Thank You