veeam

Solution Brief:

IBM FlashSystem with Veeam Availability Suite

The Availability Gap

A staggering 80%[*] of organizations across the globe admitted that they have an Availability Gap between how fast they can actually recover applications and data compared to what their service level agreement (SLA) expectations say. Legacy backup products cannot meet these requirements and don't deliver the availability that's required in today's modern data center. In fact, both downtime and its associated costs continue to increase, directly impacting revenue, customer experience and brand loyalty.

[*]See the Veeam 2021 Data Protection Trends at https://www.veeam.com/wp-2021-data-protection-trends.html

Bridge the gap with IBM and Veeam

Veeam and IBM Storage combine to deliver faster backup and shorter recovery times by backing up directly from IBM Storage Snapshots. With Veeam and IBM FlashSystem Storage, you can reduce the impact on production environments, achieve faster recovery and lower long-term storage costs through Veeam storage integrations with IBM FlashSystems including Hybrid and HDD.

Back up from Storage Snapshots.
Lower the additional impact from backup activities on the environment by retrieving virtual machine (VM) data from Storage Snapshots.

Quickly and easily recover.
Individual items or entire VMs with Veeam Explorer™ *for Storage Snapshots*.

On-Demand Sandbox.
Use Storage Snapshots to create completely isolated copies of your production environment in just a few clicks for fast and easy developing, testing and troubleshooting.

Snapshot orchestration at the primary storage.
In addition to a backup chain, a Veeam backup job can save snapshots and manage their retention separately.

IBM Storage

IBM Registered Business Partner™

IBM® Storage designs, develops and markets advanced software-defined all-flash, hybrid flash, and tape storage systems to a global audience. IBM Storage simplifies data infrastructure for organizations of all sizes as they continue their digital transformations using a software foundation that strengthens and streamlines hybrid cloud storage with a simplified approach to containerization, AI, management and data protection.

Environment configurations

Together, IBM FlashSystem and Veeam provide a simple solution for backup and recovery that allows you to centralize and automate backups across your network, from the data center to remote locations that are often left unprotected from disasters both big and small. Veeam storage integration with the IBM FlashSystem family increases backup efficiencies, provides flexible recovery options and simplifies IT operations to deliver a higher return on your storage investment.

Benefits

- Fast, application aware and image based backups directly from Storage Snapshots as often as necessary.

- Recover guest OS files, application items or even an entire VM in minutes.

- Restore directly from Storage Snapshots without staging snapshot contents to disk and intermediate restores.

- Reduce the time needed to mount snapshots, lowering your recovery time objectives (RTOs).
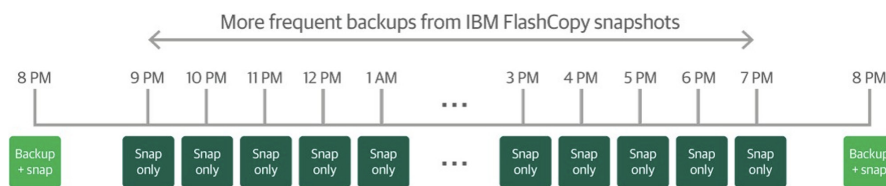

Use cases

Fast backups with low production storage impact

Many IT organizations only back up once a day or less. This outdated approach is not good enough. Minutes of downtime and lost data directly impact the bottom line. Veeam's integration with IBM Spectrum Virtualize automates backups and VM replicas from IBM FlashCopy Snapshots as often as you need them to meet demanding recovery point objectives (RPO) with little or no impact on the primary storage.

Veeam Backup *from Storage Snapshots* significantly simplifies and improves backup options with:

- Agentless and near continuous data protection
- 20x quicker backups compared to other solutions
- Verified recovery of every VM through automated recovery testing and reporting

More frequent backups from IBM FlashCopy snapshots

| 8 PM | 9 PM | 10 PM | 11 PM | 12 PM | 1 AM | ... | 3 PM | 4 PM | 5 PM | 6 PM | 7 PM | 8 PM |

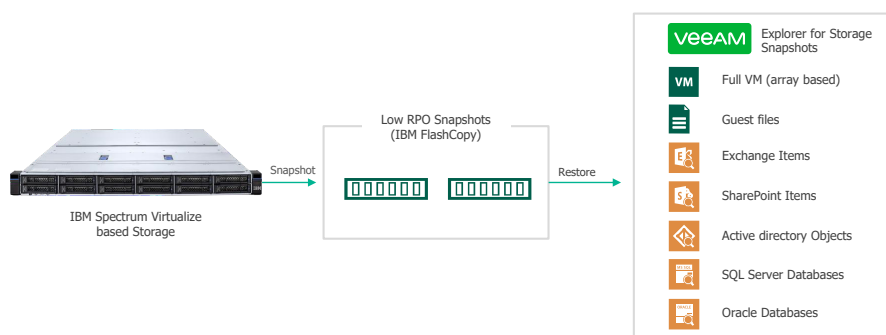| Backup + snap | | Snap only | Snap only | Snap only | Snap only | Snap only | ... | Snap only | Snap only | Snap only | Snap only | Snap only | | Backup + snap |

High-speed recovery: Only what you need, when you need it

Many organizations, regardless of size and IT resources, struggle to meet the ever-increasing demands for continual uptime and recovery when needed. Veeam's flexible recovery, which is integrated with IBM FlashCopy Snapshots, enable recovery of any IT service and related applications and data within seconds and minutes to meet demanding RTOs.

Veeam Explorer *for Storage Snapshots* leverages existing IBM FlashCopy Snapshots for the recovery of individual files or full VMs quickly and without lengthy provisioning or needing to stage the VM from backup. Veeam Explorer helps you find and restore exactly what you need in order to get your business running again. Veeam provides other flexible and granular recovery from backups with:

- Veeam Explorers *for Microsoft Active Directory*, *for Microsoft Exchange*, *for Microsoft SharePoint*, *for Microsoft SQL Server* and *for Oracle Databases*.
- Instant VM Recovery® recovers failed VMs in minutes compared to hours and days.
- Instant file-level recovery for guest OS files and folders from Windows and Linux VMs and other guest file systems.

IBM Spectrum Virtualize based Storage

Snapshot → Low RPO Snapshots (IBM FlashCopy) → Restore

veeAM Explorer for Storage Snapshots
VM Full VM (array based)
    Guest files
    Exchange Items
    SharePoint Items
    Active directory Objects
    SQL Server Databases
    Oracle Databases

Summary

The ability to quickly restore and recover data is more important now than ever with customers who expect near-zero downtimes and constant availability of their data. The faster and more efficiently you can access and restore files, applications or complete VMs, the sooner you can restore productivity. Veeam leverages the low overhead of periodic IBM FlashCopy Storage Snapshots to deliver faster backups and shorter recovery times by backing up directly from IBM Storage Snapshots. When it comes to Modern Data Protection, IBM and Veeam provide our joint customers with the confidence that their apps and data are protected and always available with the most simple, flexible, reliable and powerful platform in the industry.

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