





Welcome





Keep your data under total control in the cloud!

Château du Lac - Genval 23 Octobre 2018

9:30 - 10:00

https://datacenter-forum.eu/



<u>joaquim.neves@systemsolutions.be</u> <u>Presales at System Solutions</u>

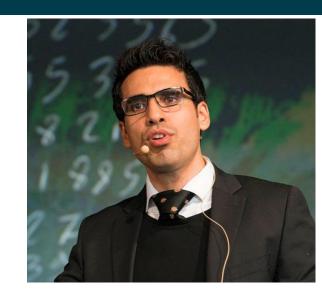


Idriss Aberkane



"Pour acheter un savoir, il faut payer de l'attention multipliée par du temps"

Knowledge = Time x Attention



Idriss Aberkane is a French teacher, lecturer and essayist.

Known for his writings and lectures on economy of knowledge and neurosciences, he publishes a successful essay in 2016, entitled "Free up your mind".

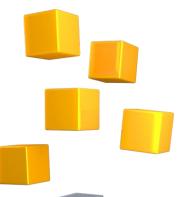




Agenda









→ To protect your O365 to a Public/on-Premises environments



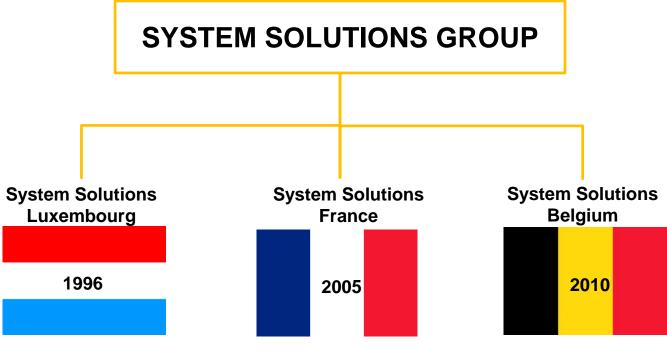
→ To protect on-Premises backups to Public/Private Clouds





System Solutions Group









What we do in a nutshell?



- **1996:** On-premises IT Infrastructure
- 2000: Licensing & Online
- 2006: Staffing & Recruiting
- 2011: Housing, Hosting, Private & Hybrid Cloud
- Now: XaaS "Anything as a Service" (BaaS, DRaaS, GPUaaS...)



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Our Strategic Partners

























Data Protection



Backup's Definition:

"An independent copy of data that can be restored if the source system or service is unavailable."

3-2-1 Backup Rule:

- Have at least three copies of your data
- Store the copies on two different media
- Keep one backup copy offsite





Veeam Backup for O365



→ To protect your O365 to a Public/on-Premises environments





Microsoft Office 365 for Business



O365 for business includes access to **Office** applications and online productivity services, as well as:

- Exchange Online (EXOL)
- SharePoint Online (SPOL)
- OneDrive for Business (OD4B)
- Skype for Business (S4B) / Teams

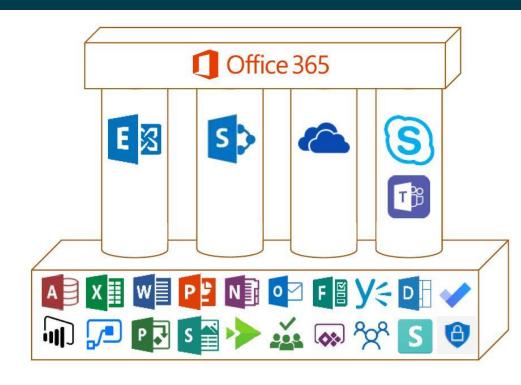






50M

more deploying now or planning to in the next 12 months**







What are we talking about here?



Protecting your local data is an "easy game"...

But why do so many companies forget to protect their SaaS data?

How to secure an Office 365 environment?





Why do I need a backup of O365?



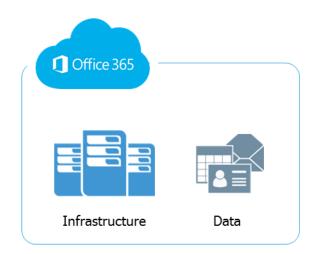
"Why do I need a backup? Microsoft takes care of it."



This is the biggest misunderstanding in the Office 365 market.

Customer perception

Microsoft takes care of everything







Perception vs Reality



Customer perception

Microsoft takes care of everything



Office 365 Infrastructure





Customer reality

Microsoft takes care of the infrastructure, but the data remains the customer's responsibility.

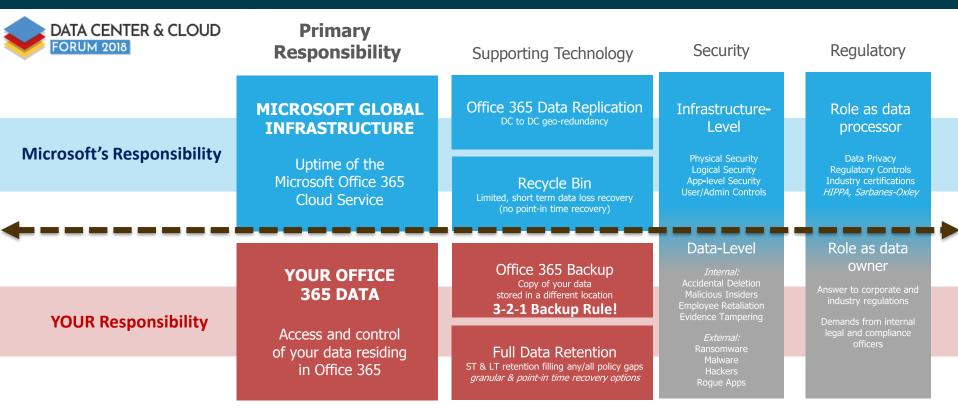


Protection and long-term retention of Office 365 data





The Shared Responsibility Model!



system solutions®



Shared Responsibility Model Summary



- Microsoft takes care of the infrastructure, but the data remains your responsibility
- With Office 365, it's your data. You own it. You control it!
- Office 365 Shared Responsibility Model: Uptime of the Microsoft Cloud Service
 - Office 365 Data Replication → DC to DC geo-redundancy
- Customer's Responsibility: Access and control of your data residing in Office 365
 - Copy of your data stored in a different location
 - Full data retention





6 Reasons WHY you need an O365 backup





Accidental deletion



Retention policy confusion / gaps



security threats Malicious insiders / departing employees

Internal



security threats

External

Ransomware / rogue apps



Legal and compliance requirements



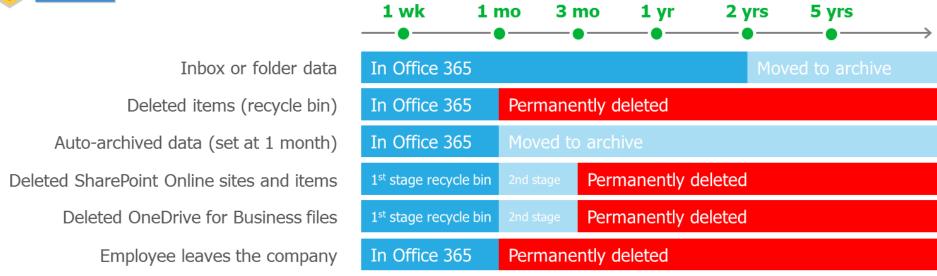
Managing hybrid deployments and migrations





Retention Policies: What exactly does Microsoft do?





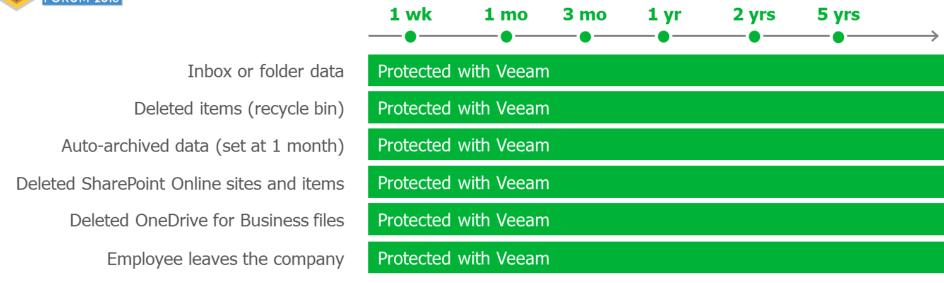
O365 retention policies protect you from data loss in a limited way!





Retention Policies: What does Veeam backup do?



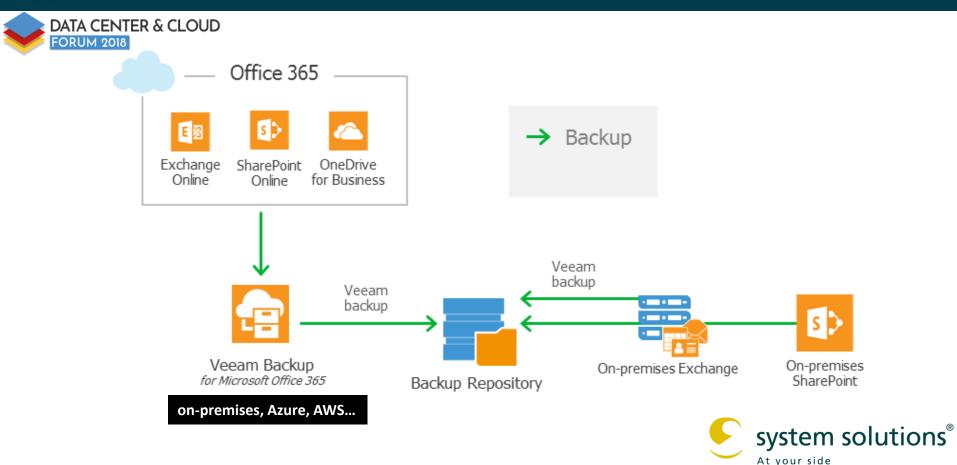


Veeam for O365 protects ALL of your Exchange Online email, OneDrive, SharePoint Online...



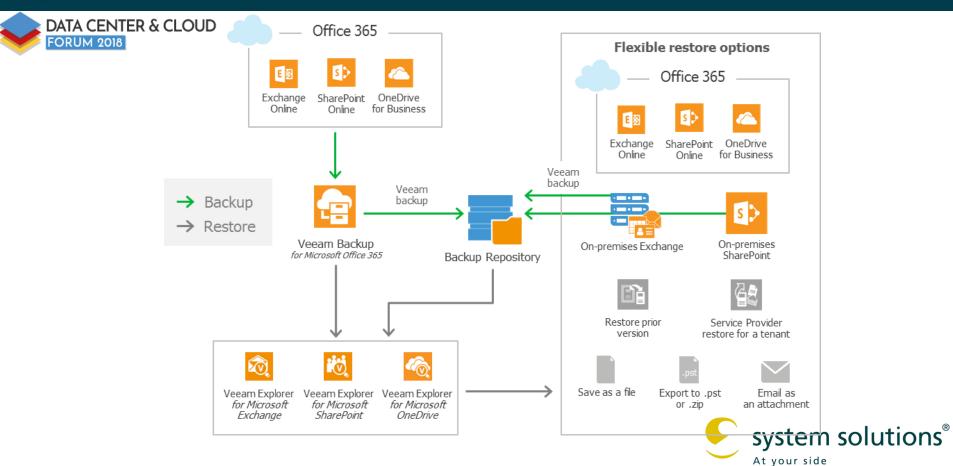


Backup: How it works





Restore: How it works





In Summary Veeam Backup for Office 365



Data protection
OneDrive for Business

Data protection for Exchange

Data protection for SharePoint

- Backup of Office 365 to any location (Azure, AWS, on-Premises...)
- Long-term retention
- Meet legal and compliance requirements
- Quickly restores Office 365 items
- Unified on-Premises and SaaS backup



Hewlett Packard Enterprise

HPE Cloud Bank

→To protect on-Premises backups to Public/Private Clouds









What are we talking about here?



Protecting data is tougher than ever

Data growth is exploding

What / How about moving backups and archives to the Public Cloud?





HPE Cloud Bank





1. New Tier of storage for long term protection using AWS, Azure or on-premises Object Storage







2. StoreOnce – Disk-based backup appliance with built-in Catalyst deduplication





3. Catalyst – API / Protocol that allows deduplication anywhere!







What is StoreOnce Appliance?







StoreOnce is a "Tier 2" Storage Data Protection solution

StoreOnce is either supplied as a **hardware appliance** based or a **virtual machine** (VM)

Uses deduplication technology "Catalyst" to hold more backup data

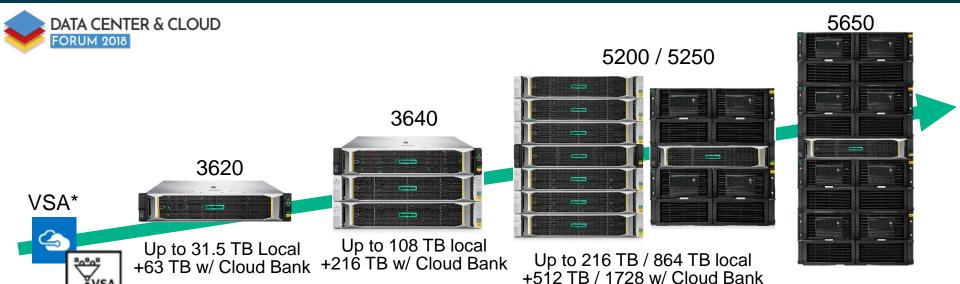
Enables customer to move data over low-bandwidth WAN, FC SAN and Ethernet links

Provides HPE Catalyst stores, Cloud Bank Storage, traditional NAS and VTL Technology





HPE StoreOnce Portfolio OCT 2018



Up to 500 TB local +1PB w/ Cloud Bank with up to 100 'nodes'

Built on HPE ProLiant Gen10 servers

Typical backup deduplication ratio between 10:1 and 20:1



Up to 1.7 PB local +3.5 PB w/ Cloud Bank



HPE StoreOnce Integration



Public/Private Cloud Integration

Backup ISVs Plug-in with APPs/DBs/VMs...





























What is Catalyst?



HPE backup deduplication protocol optimized for disk-based data protection

Supported by Veritas Symantec, Veeam, Data Protector, Oracle...

API manages relationship between applications and Catalyst stores (inside HPE StoreOnce)

Low-bandwidth deduplication

<u>Catalyst Copy</u> replicates Catalyst backups







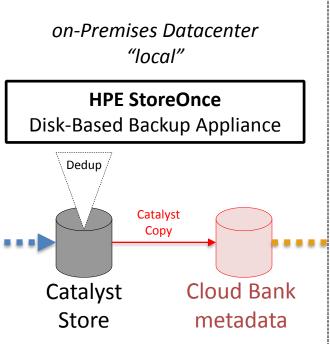
Backup to Cloud Bank

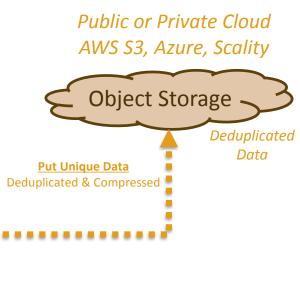
on-Premises Datacenter "local"

Data Protection Software

Backup

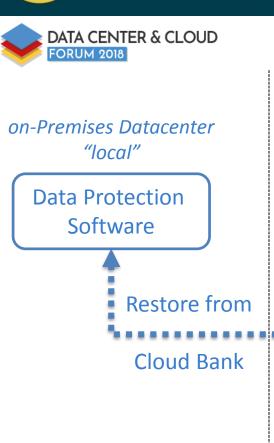
Catalyst - API









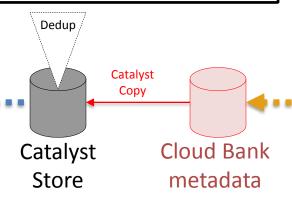


Restore from Cloud Bank Local copy expired

on-Premises Datacenter "local"

HPE StoreOnce

Disk-Based Backup Appliance



Object Storage

Deduplicated
Data

Get Unique Data

Deduplicated & Compressed

Public or Private Cloud







on-premises Datacenter "local"

Disaster Recovery From Cloud Bank

on-premises Datacenter "local"



Public or Private Cloud AWS S3, Azure, Scality

Object Storage

Put / Get Unique Data
Deduplicated & Compressed



Deduplicated Data





on-Premises Datacenter "local"

Data Protection Software

Restore from

Cloud Bank

Disaster Recovery From Cloud Bank

on-Premises Datacenter "local"





New HPE StoreOnce System
Disk-Based Backup

Virtual or Physical Appliance

Public or Private Cloud AWS S3, Azure, Scality **Object Storage Deduplicated** Data **Get Unique Data Deduplicated & Compressed**





In Summary: HPE Cloud Bank



- New Tier of backup with AWS, Azure or Private Object Storage
- Lower cost of long-term protection
- Based on HPE StoreOnce D2D Appliance and Catalyst deduplication engine
- Data Protection Applications must support <u>Catalyst Copy</u>:
 - Data Protector, Veritas Symantec, CommVault, RMC...



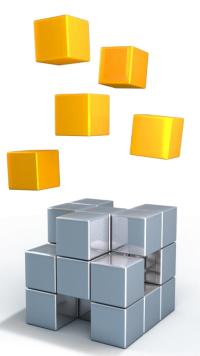




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Veeam Backup for O365

HPE Cloud Bank

