Total Data Protection and Availability with Veeam for Microsoft Azure and Office 365

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Agenda

- Veeam integration overview: Azure
- Veeam Cloud Tier
- Demo
- Veeam Cloud Mobility
- Demo
- Microsoft O365
Veeam® expands leadership in Cloud Data Management by delivering new capabilities for Microsoft Azure and Azure Stack and thousands of service providers.

**NEW Veeam Availability Suite™ 9.5 Update 4**

- **Cloud Data Retention**: Simplified long-term data retention using native object storage integration.
- **Cloud Mobility**: 2-steps to restore any backup to Azure and Azure Stack.
- **Security & Compliance**: Increased security and compliance including GDPR.

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Veeam is tightly integrated with Azure

<table>
<thead>
<tr>
<th>Feature</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Native object storage integration</td>
<td>★</td>
</tr>
<tr>
<td>Cloud mobility (cloud restore capability)</td>
<td>★</td>
</tr>
<tr>
<td>Backup remote office branch office (ROBO) environments</td>
<td>★</td>
</tr>
<tr>
<td>Backup with Veeam Cloud &amp; Service Providers (VCSPs)</td>
<td>★</td>
</tr>
<tr>
<td>Backup cloud workloads with agents</td>
<td>★</td>
</tr>
<tr>
<td>Mass data migration (Azure Data Box support)</td>
<td>★</td>
</tr>
<tr>
<td>SaaS backup (Microsoft Office 365)</td>
<td>★</td>
</tr>
</tbody>
</table>
IT Leaders: Concerned About Migration, Management & Availability Of Cloud Workloads


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Cloud data retention
The challenge

Data growth
Driving the growth of backup data for long-term retention

34% of companies expect 25-49% increase in data over the next 12 months

Compliance requirements
Demanding long-term retention of data

- Country and industry-specific
- On-demand access for legal requests
- Emerging compliances require stricter retention policies

Source: 451 Research, Voice of the Enterprise: Storage, Organizational Dynamics 2018
What can I.T. do?

Lower storage costs
Adopt a lower-cost cloud storage solution, such as object

Tier data
Leverage a tiered approach to data management in order to automate retention with granularity

Long-term data retention should be simple and easy.
Veeam Cloud Tier

The automatic tiering feature of Veeam’s Scale-out Backup Repository™

- **Native object storage integration**
  With Azure Blob Storage.

- **Unlimited capacity**
  for long-term data retention

- **No double charges**
  for storing data in the cloud, unlike with other backup providers who impose a “cloud tax”

- **No vendor lock-ins**
  associated with secondary storage appliances

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Cloud mobility
What the market says...

IT leaders are concerned that cloud workloads aren’t as portable as intended. 47% of backups expected in the cloud by 2020. 23% of backups expected in the cloud by 2020.

1 2017 Cloud User Survey, Frost & Sullivan  
2 ESG 2018 Data Protection Landscape Report, October 2018
Cloud Mobility is critical

As organizations look to establish or advance their cloud portability, three critical use cases must be considered:

- Mobility to the cloud
- Data recovery
- On-demand Services
Veeam Cloud Mobility

Includes:

Veeam Direct Restore to Microsoft Azure

NEW Veeam Direct Restore to Microsoft Azure Stack

Portability of ANY backup either on premises or in the cloud

2 steps to maintain Availability across all hybrid-cloud environments

Recover workloads for business continuity

Unlock tests and developments for data backups to the cloud

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How Veeam Cloud Mobility works

Any on-premises VMware vSphere, Microsoft Hyper-V and Nutanix AHV VMs, physical servers and workstations...
How Veeam Cloud Mobility works

Any on-premises VMware vSphere, Microsoft Hyper-V and Nutanix AHV VMs, physical servers and workstations...

Can be restored directly to Azure or Azure Stack!
Demo
6 Reasons WHY you need an Office365 backup

- Accidental deletion
- Retention policy confusion / gaps
- Internal security threats
  - Malicious insiders / departing employees
- External security threats
  - Ransomware / rogue apps
- Legal and compliance requirements
- Managing hybrid deployments and migrations

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With Office 365, it's your data. You own it. You control it. And it is yours to take with you if you decide to leave the service. The core tenets of our approach to earning and maintaining your trust are:

**Built-in security**
- Service-level security through defense-in-depth

**Privacy by design**
- Your data is not used for advertising
Retention policies:

What exactly does Microsoft back up?

<table>
<thead>
<tr>
<th>Deleted items (recycle bin)</th>
<th>1 wk</th>
<th>1 mo</th>
<th>3 mo</th>
<th>1 yr</th>
<th>2 yrs</th>
<th>5 yrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>In Office 365</td>
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<td></td>
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<tr>
<td>Permanently deleted</td>
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<td></td>
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<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Auto-archived data (set at 1 month)</th>
<th>1 wk</th>
<th>1 mo</th>
<th>3 mo</th>
<th>1 yr</th>
<th>2 yrs</th>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Moved to archive</td>
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<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Deleted SharePoint Online sites and items</th>
<th>1 wk</th>
<th>1 mo</th>
<th>3 mo</th>
<th>1 yr</th>
<th>2 yrs</th>
<th>5 yrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st stage recycle bin</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2nd stage</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Permanently deleted</td>
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<td></td>
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</tbody>
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<table>
<thead>
<tr>
<th>Deleted OneDrive for Business files</th>
<th>1 wk</th>
<th>1 mo</th>
<th>3 mo</th>
<th>1 yr</th>
<th>2 yrs</th>
<th>5 yrs</th>
</tr>
</thead>
<tbody>
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<td>1st stage recycle bin</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2nd stage</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Permanently deleted</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Employee leaves the company</th>
<th>1 wk</th>
<th>1 mo</th>
<th>3 mo</th>
<th>1 yr</th>
<th>2 yrs</th>
<th>5 yrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>In Office 365</td>
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</table>

Office 365 backup and retention policies can **only protect you from data loss in a limited way** and are not intended to be a complete backup solution.

Retention policies are always evolving and tend to be **very complicated to manage and monitor**. Commonly, Admins believe they are covered, only to find that in fact certain items are gone.

**Sources:** Exchange Online information above is based on Microsoft's [default MRM Policy](https://support.office.com/en-us/article/microsoft-365-retention-policy-definition-45207ba4-fc07-4f8c-8982-71e5c57aa88c). SharePoint Online information above is based on Microsoft's [support article](https://support.office.com/en-us/article/what-do-i-do-if-i-deleted-sharepoint-data-by-accident-63252640-0779-4c96-89d8-6d9b0d39279f). OneDrive for Business information is based on Microsoft's [support article](https://support.office.com/en-us/article/one-drive-business-recovery-and-deletion-policy-6a39f0c0-3c7a-4d32-85a4-3d79b19ed4ee). In some cases, these defaults can be customized by the IT Admin, but often require certain licenses and/or additional fees, and also carry the risk which allows Microsoft to automatically delete data ahead of retention policy dates if the recycle bin is full.
## Retention policies:

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Retention Policy</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inbox or folder data</td>
<td>In Office 365</td>
<td>Microsoft Office 365, 6 steps to holistic security, chapter 1</td>
</tr>
<tr>
<td>Deleted items (recycle bin)</td>
<td>In Office 365, Permanently deleted</td>
<td></td>
</tr>
<tr>
<td>Auto-archived data (set at 1 month)</td>
<td>In Office 365, Moved to archive</td>
<td></td>
</tr>
<tr>
<td>Deleted SharePoint Online sites and items</td>
<td>1st stage recycle bin, 2nd stage, Permanently deleted</td>
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<tr>
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<td>In Office 365, Permanently deleted</td>
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The average length of time from **data compromise to discovery** is over **140 days**, yet default settings only protect for 30-90 days.

### What exactly does Microsoft back up?

- **Inbox or folder data**
  - In Office 365
  - Moved to archive

- **Deleted items (recycle bin)**
  - In Office 365
  - Permanently deleted

- **Auto-archived data (set at 1 month)**
  - In Office 365
  - Moved to archive

- **Deleted SharePoint Online sites and items**
  - 1st stage recycle bin
  - 2nd stage
  - Permanently deleted

- **Deleted OneDrive for Business files**
  - 1st stage recycle bin
  - 2nd stage
  - Permanently deleted

- **Employee leaves the company**
  - In Office 365
  - Permanently deleted

**Source**: Microsoft Office 365, 6 steps to holistic security, chapter 1
### Retention policies:

<table>
<thead>
<tr>
<th>Data Type</th>
<th>Retention Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inbox or folder data</td>
<td>Protected with Veeam</td>
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### What exactly does Microsoft back up?

- **1 wk**
- **1 mo**
- **3 mo**
- **1 yr**
- **2 yrs**
- **5 yrs**

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**Veeam Backup for Microsoft Office 365** is more than simply filling gaps. It’s about providing access and control to **ALL** Exchange Online, SharePoint Online and OneDrive for Business data and storing it in one location, making recovery fast, easy and reliable.
Demo
Summary

- Veeam integration overview: Azure
- Veeam Cloud Tier
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- Veeam Cloud Mobility
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- Microsoft O365
Thank you