

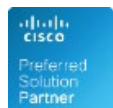
VEEAM

VEEAM

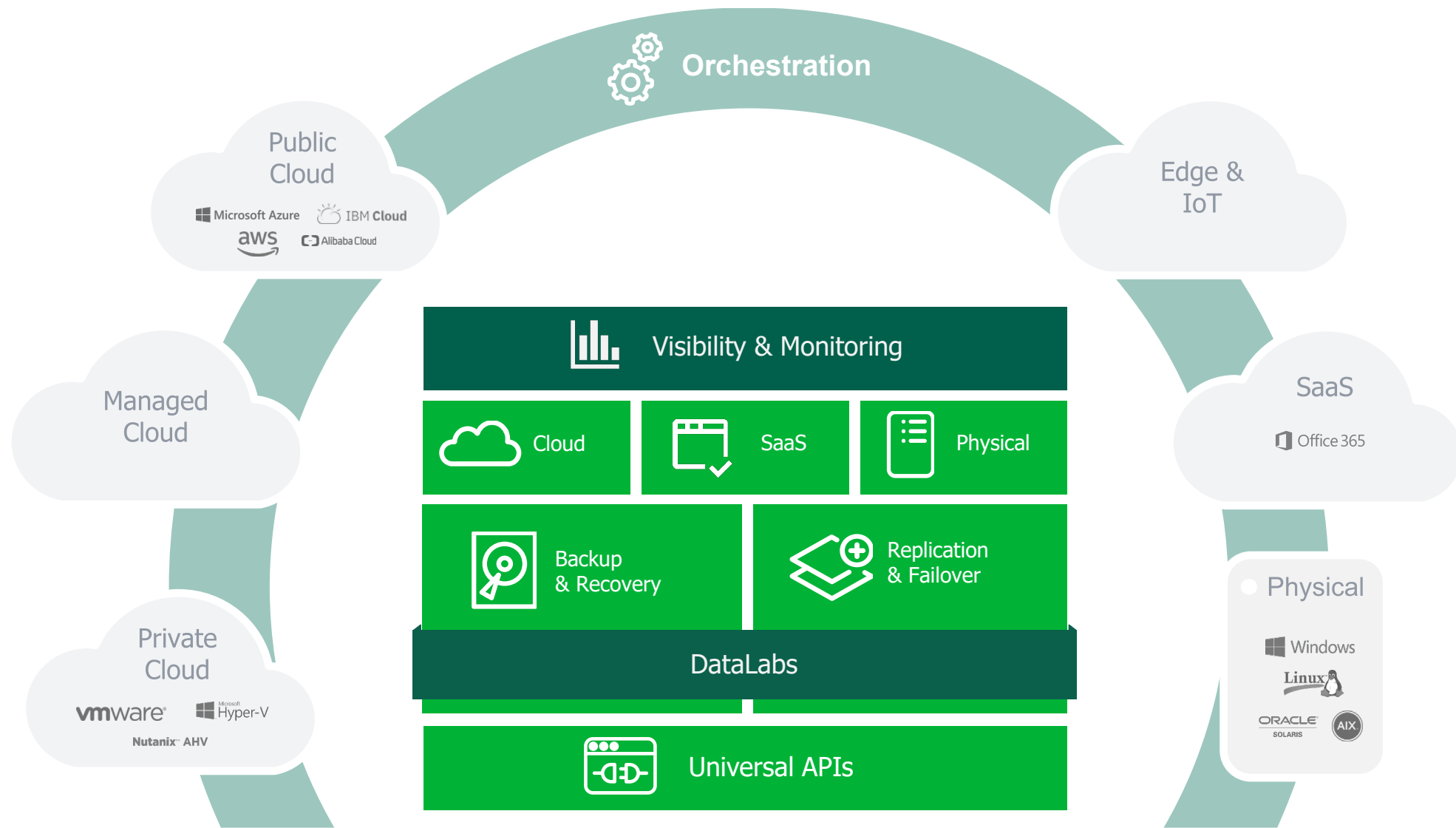
Timothy Dewin

System Engineer

Timothy.dewin@veeam.com



Veeam Availability Platform for Hybrid Cloud



Veeam Availability Platform for Hybrid Cloud

For Virtual Workloads

- Veeam Availability Suite
- Veeam Backup & Replication
- Veeam Availability for Nutanix AHV

For Cloud and Physical Workloads

- Veeam Backup for Microsoft Office 365
- Veeam Availability for AWS
- Veeam for Microsoft Azure Stack
- Veeam for VMware Cloud on AWS
- Veeam Agent for Microsoft Windows
- Veeam Agent for Linux
- Veeam Agent for IBM AIX
- Veeam Agent for Oracle Solaris

For Service Providers

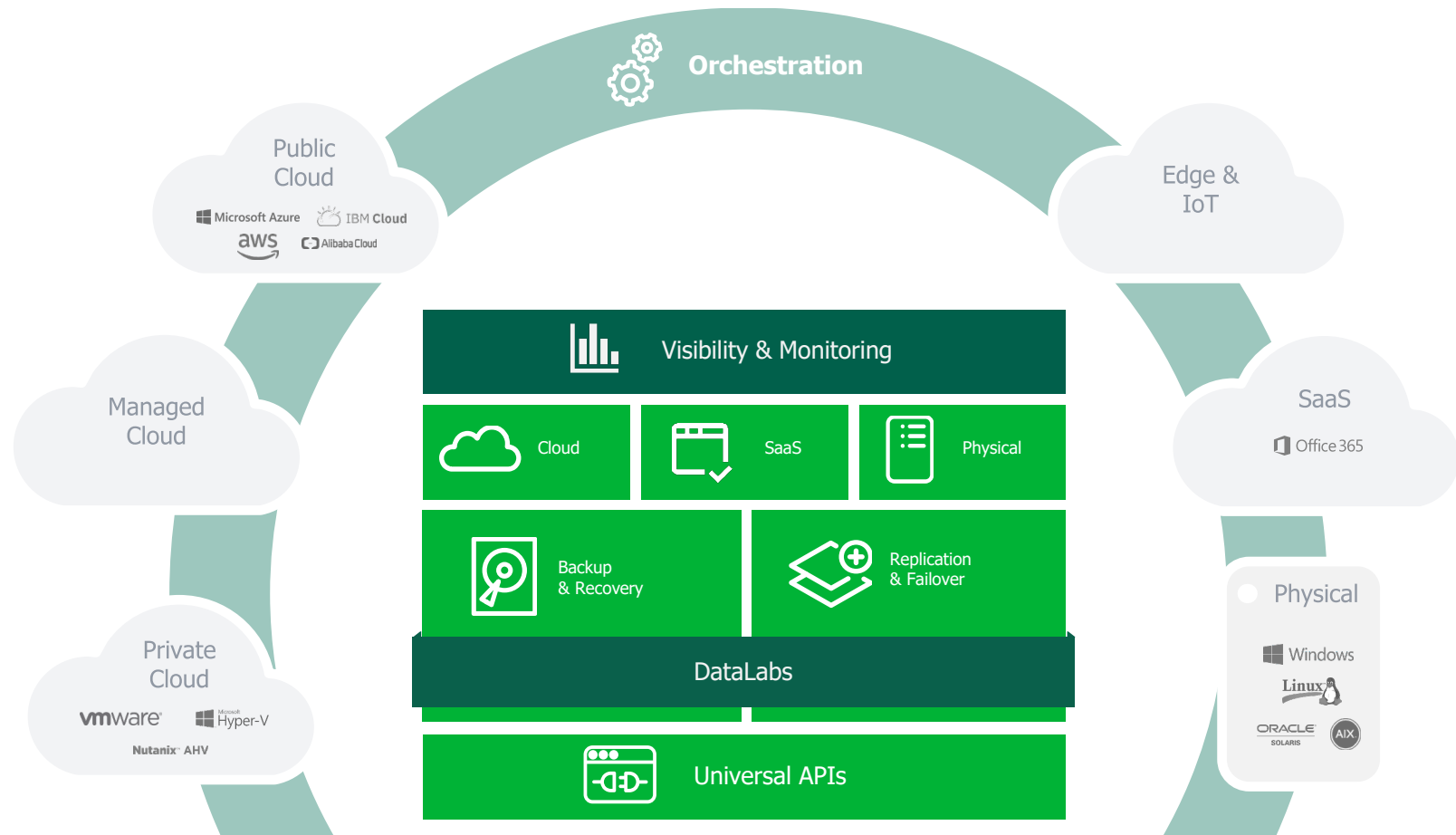
- Veeam Availability Console
- Veeam Cloud Connect Backup (BaaS)
- Veeam Cloud Connect Replication (DRaaS)

Disaster Recovery Orchestration

- Veeam Availability Orchestrator

Monitoring & Management

- Veeam ONE
- Veeam Management Pack for System Center





140M

Office 365 users



50M

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



35k

organizations have downloaded
Veeam Backup for Microsoft Office 365,
representing 4.1M Office 365 users



6 Reasons WHY

you need an Office 365 backup



**Accidental
deletion**



**Retention
policy
confusion /
gaps**



**Internal
security threats**
Malicious insiders /
departing employees



**External
security threats**
Ransomware /
rogue apps



**Legal and
compliance
requirements**



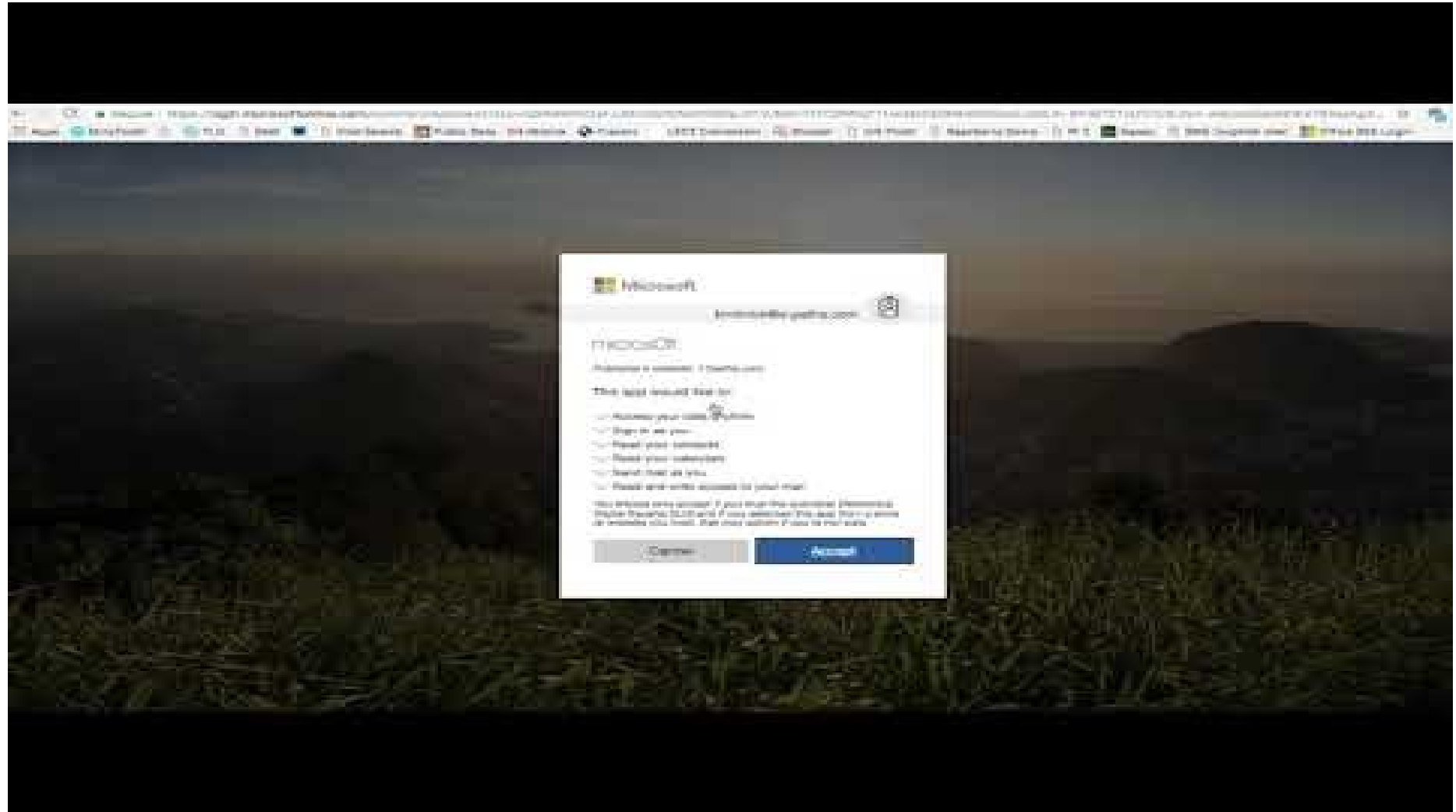
**Managing
hybrid
deployments
and migrations**

“Live” demo



External security threats

Ransomware /
rogue apps

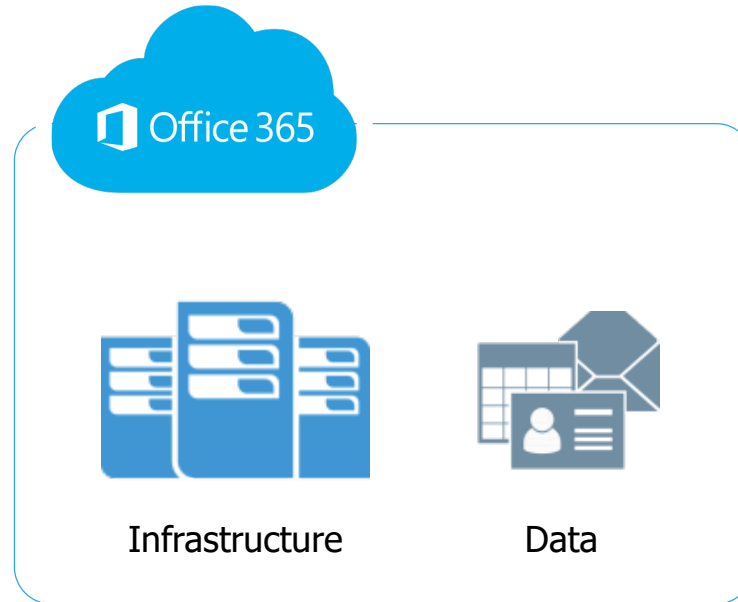




Perception versus reality

Customer perception

Microsoft takes care of everything

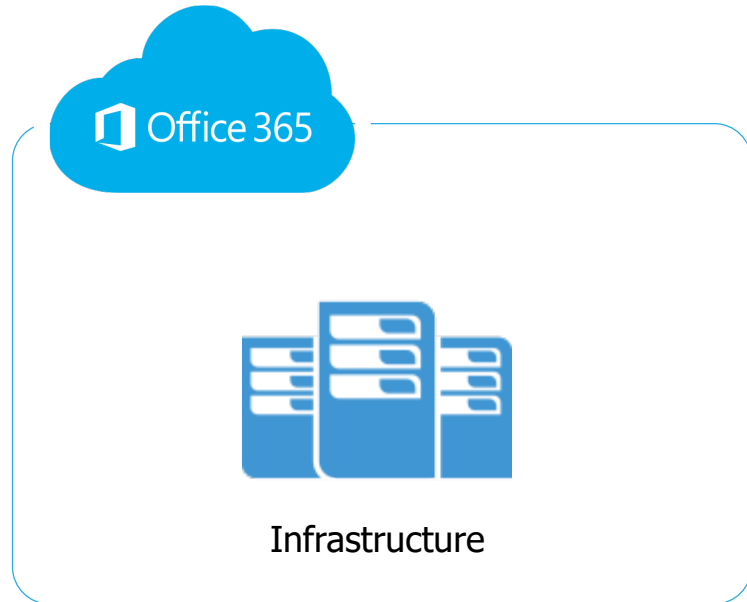




Perception versus reality

Customer perception

Microsoft takes care of everything

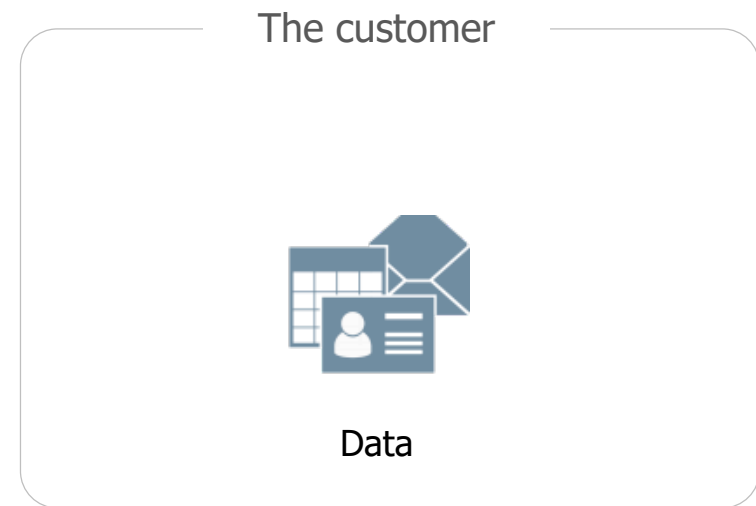


Uptime of Office 365



Customer reality

Microsoft takes care of the infrastructure, but the data remains your responsibility.



Protection and long-term retention of Office 365 data

Move your business ahead with the latest security and compliance features within Office 365 Enterprise E5. [Learn more](#) ↗

Office 365

Office 365 Trust Center

Welcome to the place where we share our commitments and information about security, privacy, and compliance.

[Watch all security-related videos From Inside the Cloud](#) ↗



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](#)

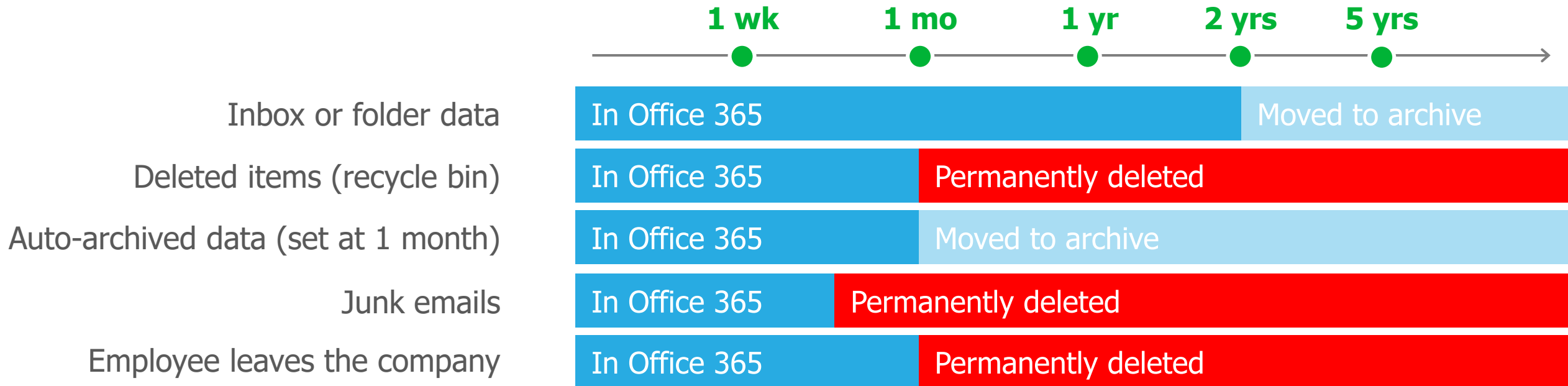
- Service-level security through defense-in-depth

[Privacy by design](#)

- Your data is not used for advertising

Retention policies

What does Microsoft back up?



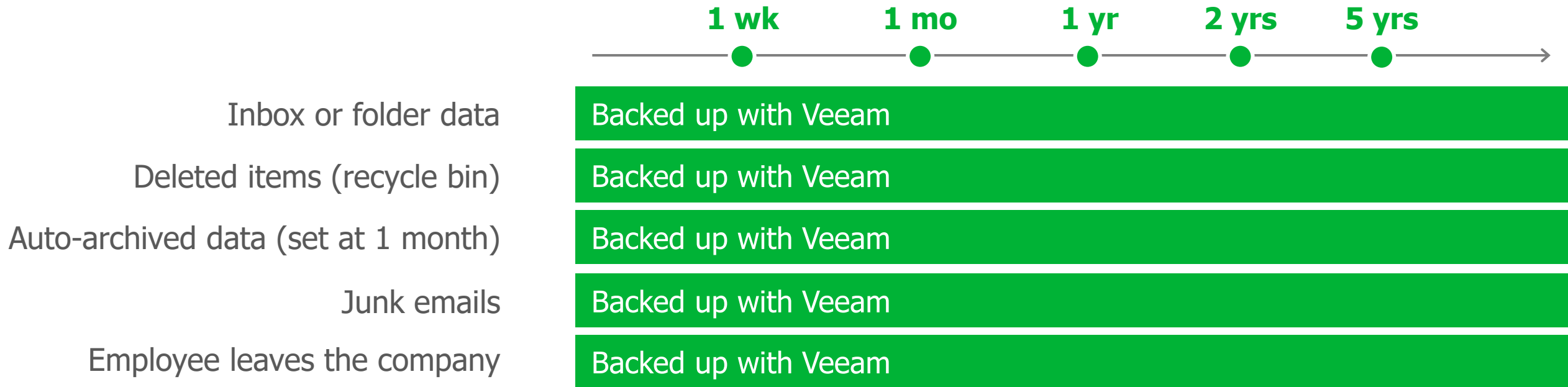
Office 365 backup and retention policies can **only protect you from data loss in a limited way** and are not intended to be a complete backup solution.

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

Information above is based on Microsoft's [default MRM Policy](#), and can be customized by the IT Admin. But in some cases, the ability to extend these retention periods is limited to certain licenses or require additional fees.

Retention policies

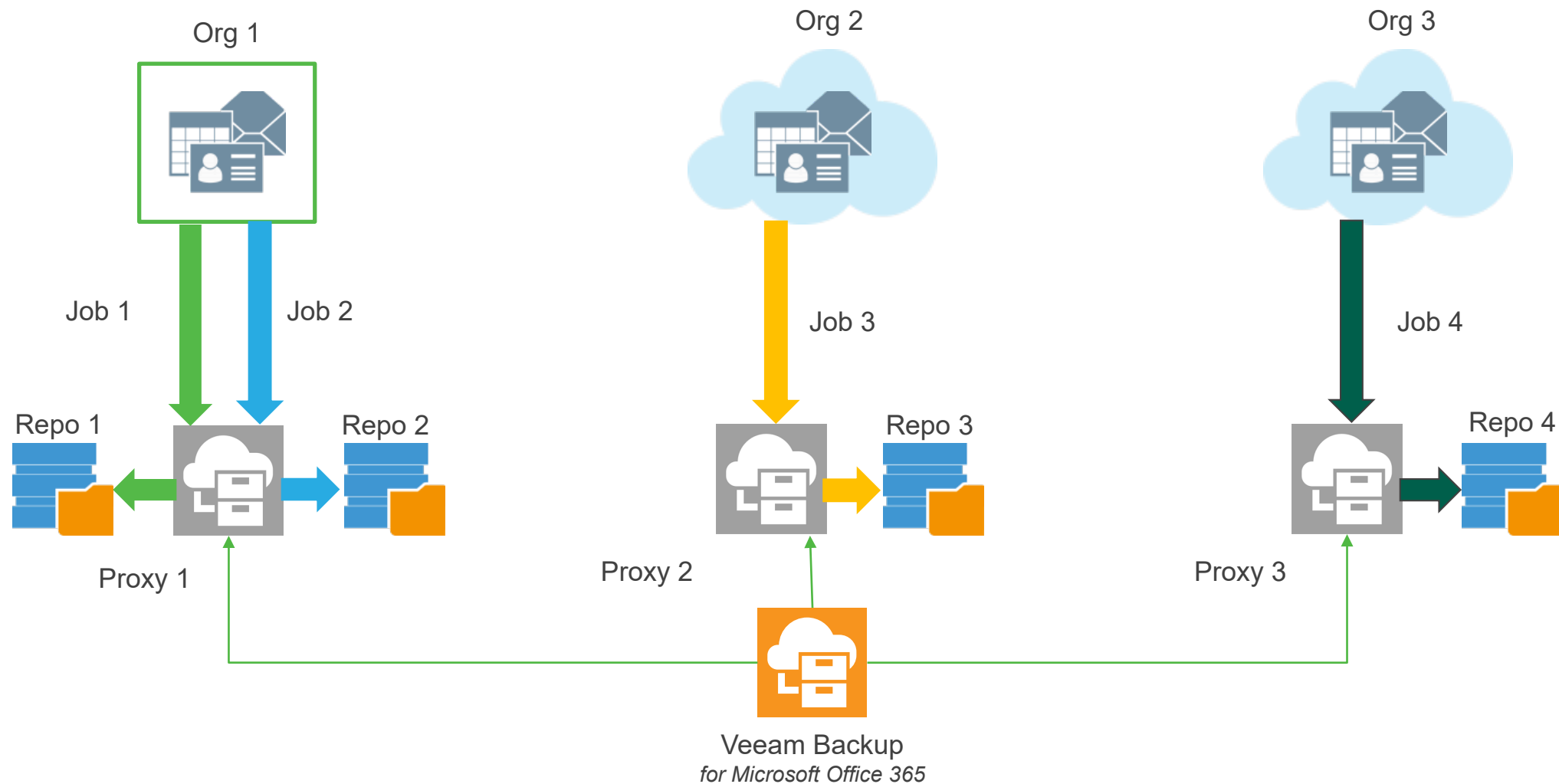
What does Microsoft back up?



Veeam Backup for Microsoft Office 365 protects ALL of your Exchange Online email and stores this data in one location, making recovery fast, easy and reliable.

Information above is based on Microsoft's [default MRM Policy](#), and can be customized by the IT Admin. But in some cases, the ability to extend these retention periods is limited to certain licenses or require additional fees.

Adding VBO365 at scale





Granular Recovery

The screenshot displays the Veeam Backup for Microsoft Office 365 interface. The main window shows a list of backup jobs under the 'JOBS' tab. A context menu is open over 'Job 1', showing options like 'Start', 'Stop', and 'Explore latest OneDrive state of Monday 01.05.2017, 0:00'. A Veeam Explorer for Microsoft SharePoint window is overlaid, showing the 'OneDrive of Kostya Yasyuk' content database. The Explorer window displays a list of files and folders for recovery.

NAME	SIZE	VERSION	CHECKIN COMMENT
Folder 2		1.0	
Generated		1.0	
Generated (Small)		1.0	
Generated Subfolders		1.0	
1024.bin	1 GB	1.0	
Document22.docx	11,2 KB	9.0	
Rnd_64.bin	64 MB	1.0	

Job Log:

- Job started at 30.04.2017 23:38:38
- Connected to organization
- Mailboxes enumerated: (0) found
- Processing mailbox: kyasyuk@veeamba
- Processing mailbox: mresseler@veeamba
- Processing OneDrive: Kostya Yasyuk
- Transferred: 3,4 KB (1 item) at 2 B/s (0 it
- Job finished at 01.05.2017 0:00:47

Much-requested support for...



**SharePoint
Online**



**OneDrive
for Business**

Common Confusions...

- Backup data from O365... I pay for every MB
- You can't encrypt "the cloud"
- MS will restore my emails of today...

Update 4

Enterprise DB integration

RMAN Plugin / SAP Hana Back Int

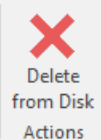
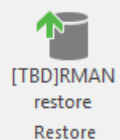
Installed in machine

Control to DBA

Responsibility to DBA

Avoid “Fileserver”

```
oracle@lin02:~  
RMAN> backup database;  
  
Starting backup at 14-AUG-18  
using channel ORA_SBT_TAPE_1  
channel ORA_SBT_TAPE_1: starting full datafile backup set  
channel ORA_SBT_TAPE_1: specifying datafile(s) in backup set  
input datafile file number=00002 name=/u01/app/oracle/oradata/XE/sysaux.dbf  
input datafile file number=00001 name=/u01/app/oracle/oradata/XE/system.dbf  
input datafile file number=00004 name=/u01/app/oracle/oradata/XE/users.dbf  
input datafile file number=00003 name=/u01/app/oracle/oradata/XE/undotbs1.dbf  
channel ORA_SBT_TAPE_1: starting piece 1 at 14-AUG-18  
channel ORA_SBT_TAPE_1: finished piece 1 at 14-AUG-18  
piece handle=88788f9e-d8f5-4eb4-bc4f-9b3f5403bcec/RMAN_2865259304_XE_20180814_0qtahs6t_1_1 tag=TAG20180814T150357 commen  
t=API Version 2.0,MMS Version 0.0.0.1  
channel ORA_SBT_TAPE_1: backup set complete, elapsed time: 00:00:15  
channel ORA_SBT_TAPE_1: starting full datafile backup set  
channel ORA_SBT_TAPE_1: specifying datafile(s) in backup set  
including current control file in backup set  
including current SPFILE in backup set  
channel ORA_SBT_TAPE_1: starting piece 1 at 14-AUG-18  
channel ORA_SBT_TAPE_1: finished piece 1 at 14-AUG-18  
piece handle=88788f9e-d8f5-4eb4-bc4f-9b3f5403bcec/RMAN_2865259304_XE_20180814_0rtahs7c_1_1 tag=TAG20180814T150357 commen  
t=API Version 2.0,MMS Version 0.0.0.1  
channel ORA_SBT_TAPE_1: backup set complete, elapsed time: 00:00:07  
Finished backup at 14-AUG-18  
  
RMAN>  
  
RMAN>
```



HOME

- Jobs
 - Backup
 - Backup Copy
- Backups
 - Disk
 - Disk (Copy)
- Last 24 Hours
 - Running (1)
 - Success

HOME

INVENTORY

BACKUP INFRASTRUCTURE

STORAGE INFRASTRUCTURE

TAPE INFRASTRUCTURE

FILES

VEEAM EXPLORER FOR ORACLE

HOME

Restore Database

Restore

DATABASES

- lin02.x.local
 - xe
 - XE

Database Info

Oracle SID:	XE
Log mode:	ARCHIVELOG

Database Files

Control files

/u01/app/oracle/oradata/XE/control.dbf

Data files

/u01/app/oracle/oradata/XE/system.dbf
 /u01/app/oracle/oradata/XE/sysaux.dbf
 /u01/app/oracle/oradata/XE/undotbs1.dbf
 /u01/app/oracle/oradata/XE/users.dbf

Log files

/u01/app/oracle/fast_recovery_area/XE/onlinelog/o1_mf_2_fq59gcjn_.log
 /u01/app/oracle/fast_recovery_area/XE/onlinelog/o1_mf_1_fq59gbz0_.log

Temp files

/u01/app/oracle/oradata/XE/temp.dbf

XE

VEEAM

Cloud Tier

Archive older backups to the cloud

Incremental forever

Direct restore from the cloud

Support for

Azure Blob Storage

Amazon S3

IBM Cloud Object Storage

S3 Generic On and Off

[TBD] Edit Archive Repository

[TBD] Account
[TBD] Provide details for Amazon S3 storage account you want to use.

[TBD] Name

[TBD] Service point:
https://192.168.1.141:9000

[TBD] Account

[TBD] Region:
us-east-1

[TBD] Storage

Credentials:
XPH5KKU1C96YVIHE8JTX (last edited: 13 days ago) Add...

[\[TBD\] Manage cloud accounts](#)

[TBD] Use gateway server:
vbrbeta
[TBD] Select server to proxy access archive repository.

< Previous Next > Finish Cancel

Cloud Mobility

Direct restore
To Azure (stack)
To Amazon

Any source
Agents
On premises VM

New Instance based license model!

Initial Configuration

[TBD] Environment Type
[TBD] Environment type description

Initial Configuration
[TBD] Environment Type
Subscription
Summary

[TBD] Microsoft Azure
[TBD] This is public computing services offered by Microsoft over the public Internet, available to anyone who wants to use or purchase them. Select this option, if you have an Microsoft Azure subscription.
[TBD] Region:
Global

[TBD] Microsoft AzureStack
[TBD] This is hybrid cloud platform that lets Service Providers deliver Azure services to their customers. Select this option, if you have a tenant subscription with Service Provider running AzureStack.

< Previous Next > Finish Cancel

Enhanced Recovery

Staged Restore

2 stage restore for GDPR

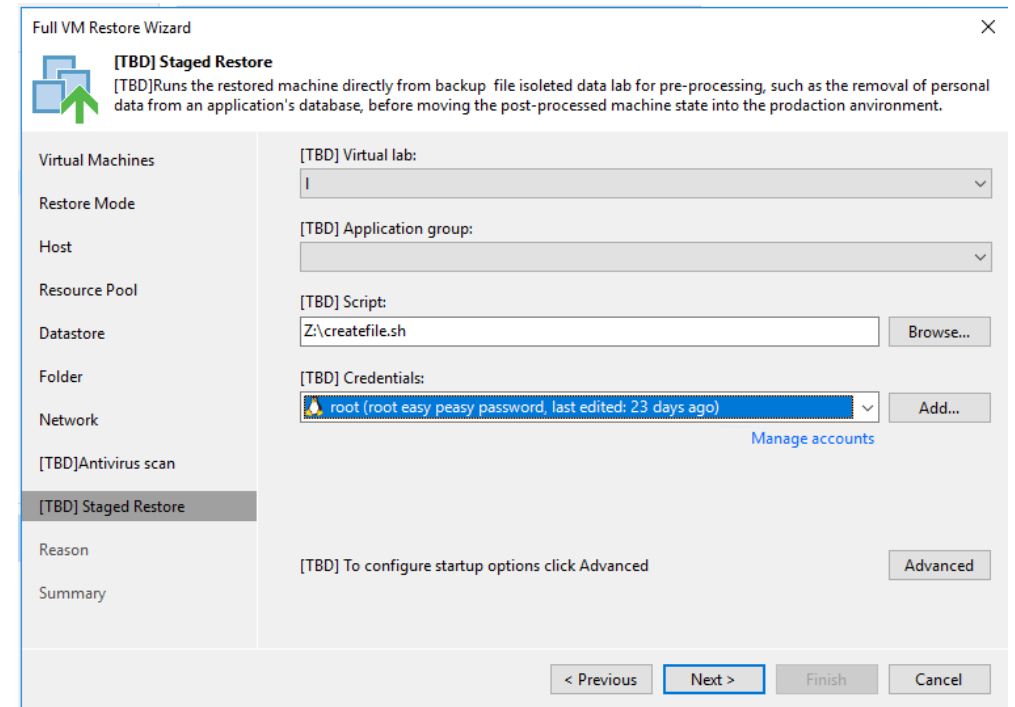
Start/Stop service

Antivirus

Scan before restore

Old backups

Untrusted sources



Log analysis

Analyze VBR logs

Build on support signatures

Data locally analyzed by Veeam One

Update via Web

The screenshot displays the Veeam ONE Agent Summary page. At the top, there are tabs for Summary, Alarms, VM Jobs, and [TBD]Veeam ONE Agent Summary. Below the tabs, a status bar indicates "Selected Object: Backup Infrastructure - 0 errors, 0 warnings". A table lists agent details with columns: Backup..., Agent..., Agent ..., Remediati..., Log A..., Log Analysis..., and Log Analysis S... The table contains one row with a green checkmark in the first column, IP address 192.168.1..., agent name [TBD] Conne..., version 9.5.4.4315, and status [TBD] Enabled. A dialog box titled "[TBD] Veeam ONE Agent Settings" is open, showing options to enable Remediation actions and Logs Analysis. The right sidebar contains an ACTIONS panel with sections for [TBD] Veeam ONE Agent (Install, Settings, Remove), [TBD] Log Analysis (Start, Stop, Set Schedule), and [TBD] Signatures Library (Update Now, Import Signatures).

Backup...	Agent...	Agent ...	Remediati...	Log A...	Log Analysis...	Log Analysis S...
✓ 192.168.1....	[TBD] Conne...	9.5.4.4315	[TBD] Enabled	[TBD] Enabled	Daily, 12:00	Finished analyzing data log:

[TBD] Veeam ONE Agent Settings

[TBD] Select what functionality you want to enable for selected Agents:

- [TBD] Remediation actions
[TBD] This functionality allows to force creation of the VM backup in case of the missed RPO
- [TBD] Logs Analysis
[TBD] This functionality allows to detect common patterns in the log files and based on the results suggest the cure action

Save Cancel

ACTIONS

[TBD] Veeam ONE Agent

- [TBD] Install
- [TBD] Settings...
- [TBD] Remove Agent

[TBD] Log Analysis

- [TBD] Start
- [TBD] Stop
- [TBD] Set Schedule...

[TBD] Signatures Library

- [TBD] Update Now
- [TBD] Import Signatures...

Smaller

Instant SQL Restore for Test/QA

Powershell for item level recovery : SQL, SP, Exchange

NDMP dump to tape

Self Service Backup & Restore

Microsoft 2019 Support

vSphere 6.7u1 Support

...

https://www.veeam.com/veeam_backup_9_5_whats_new_wn.pdf



Thank you

veeam