



Veeam – Availability for Modern Datacenter Varna, 15 May 2016

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Veeam Software

Founded in 2006,
500,000+ users
193,000+ customers
10 Million+ VMs protected

Enabling Always-On Business™
by providing solutions that deliver
Availability for the Modern Data Center™

Agenda

Availability today

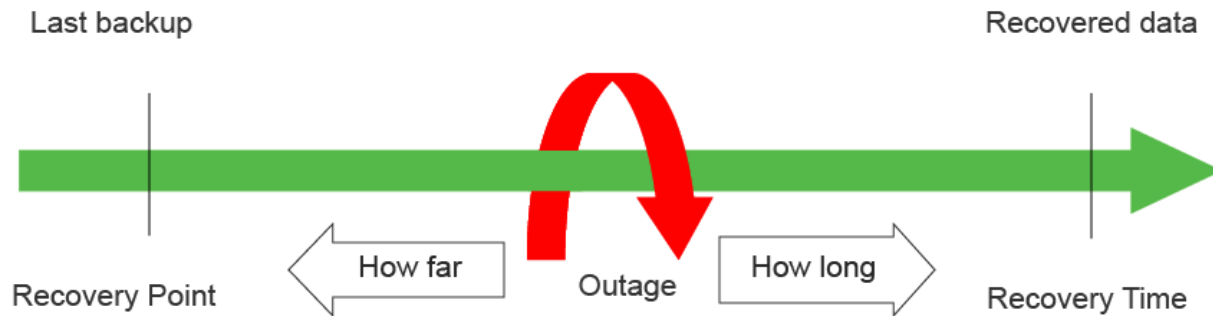
3-2-1 Data Protection Strategy

How Veeam works

Availability

RPO and RTO

- Availability is defined by RPO and RTO
- Veeam Backup and Replication enables availability for virtual environments



Veeam Availability

protection for the Always-On Business

High-speed Recovery



Data-loss Avoidance



2-in-1 Built-in Backup and Replication

Verified Protection



Leverage Data



Bridging the Availability Gap

- ✓ Access all data and applications any time
- ✓ Zero tolerance for data loss
- ✓ RTPO < 15 minutes



Complete Visibility

Centralized management
Infrastructure monitoring and reporting
vSphere Web Client plugin
vCloud Director integration

Veeam Backup and Replication

Built for virtualization

Agent-free

- Agents in VMs are bad
 - Agents create a maintenance nightmare: must be deployed, monitored and maintained on every VM
 - Agents drive up costs and add complexity
 - Agents are prone to failure and don't protect powered-off VMs
- Veeam eliminates agents in VMs
 - Application-aware backup and recovery without agents
 - File, application-item and in-place restores without agents

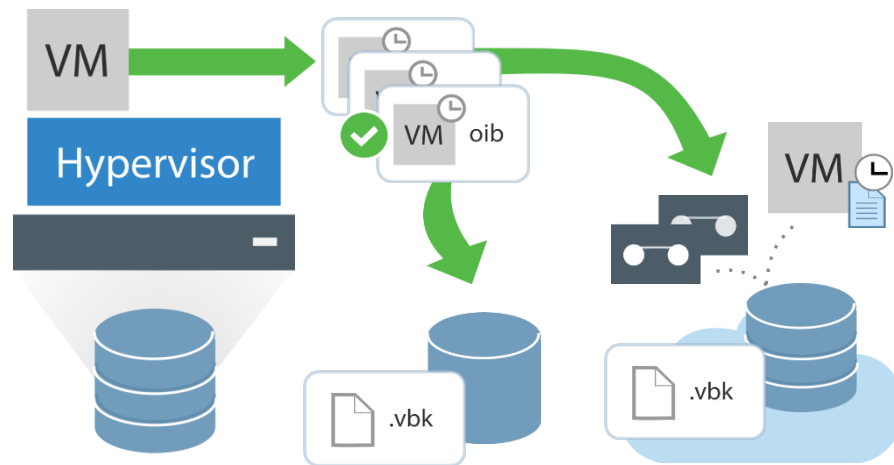


3-2-1 Rule

avoiding recovery failure

Backup specialists agree that in order to ensure recoverability you need:

- **3 copies of your data**
- Store this data using at least **2 different media types**
- Store at least **1 copy offsite**
- Allow for “**0 errors**” by using automatic recovery verification using SureBackup and SureReplica



How restore works?

1

Find the backup copy

Minutes

2

Copy data from backup to production

Hours

3

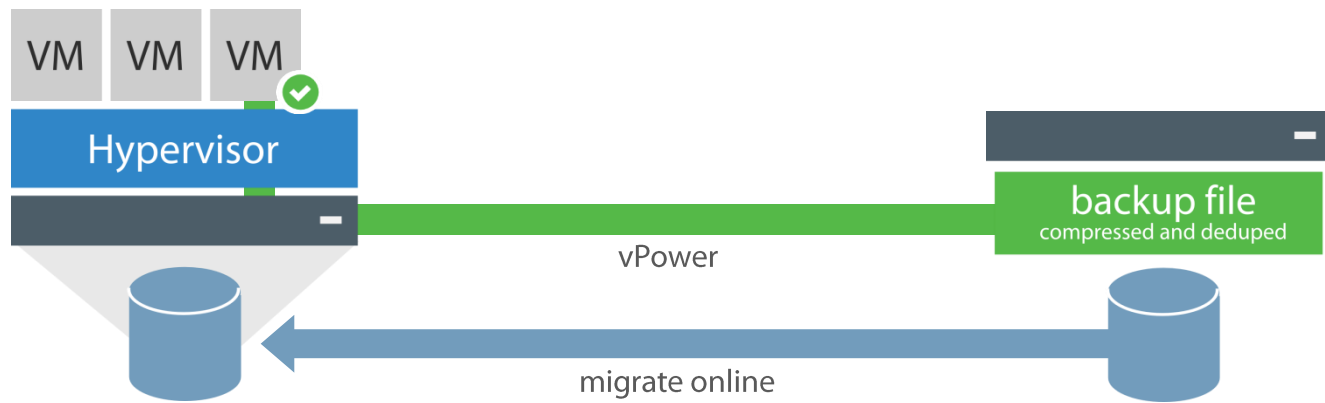
Restart

Minutes



High Speed Recovery

Instant VM recovery

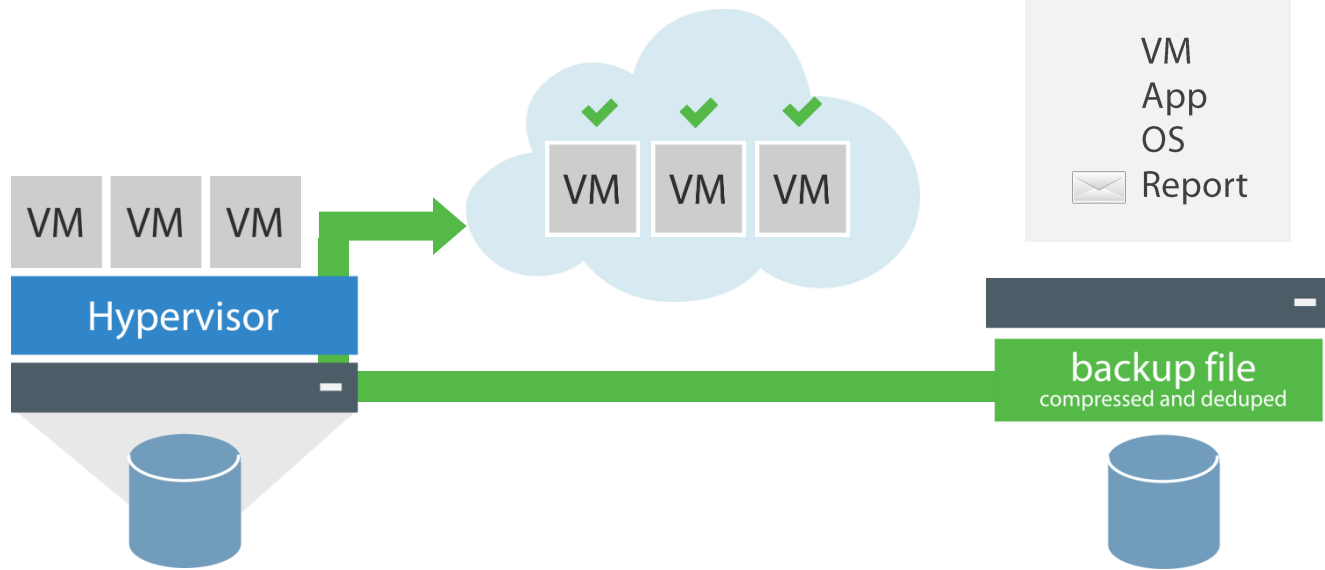


Can I trust my backup software?

100%



Protection 100%



Can I do something more?

Q: When I need copies of my data sets?

A: Everytime I perform tests!



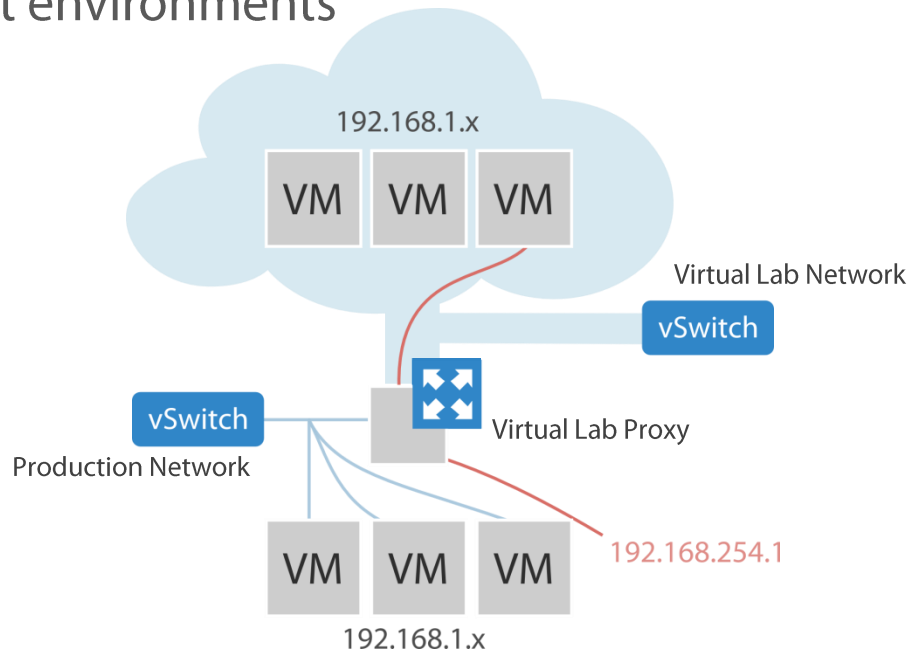
Leverage Data

use backup to spin up test environments

Start VMs from a backup file (SureBackup) or replica, using a virtual lab proxy to separate network traffic.

The internal IP address of the virtual lab should be set to the default gateway in production. It is also possible to allow internet traffic through or map an IP address (static mapping) to allow production access to a VM.

SureReplica requires distributed virtual switches.

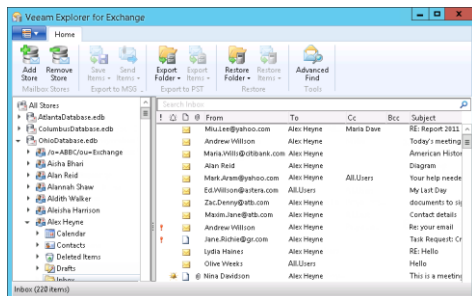


Veeam Explorers

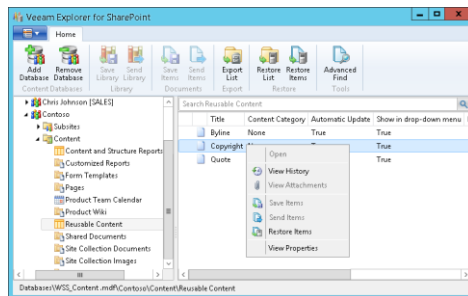
Granular recovery for files and application items



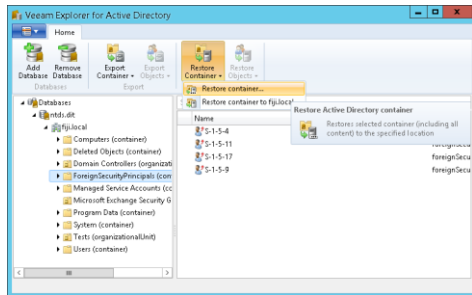
Exchange



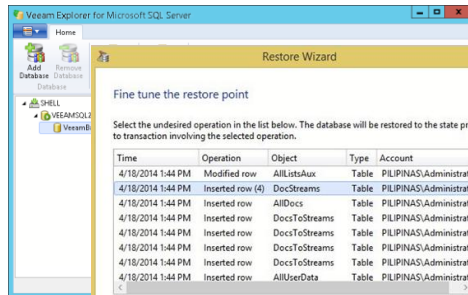
SharePoint



Active Directory



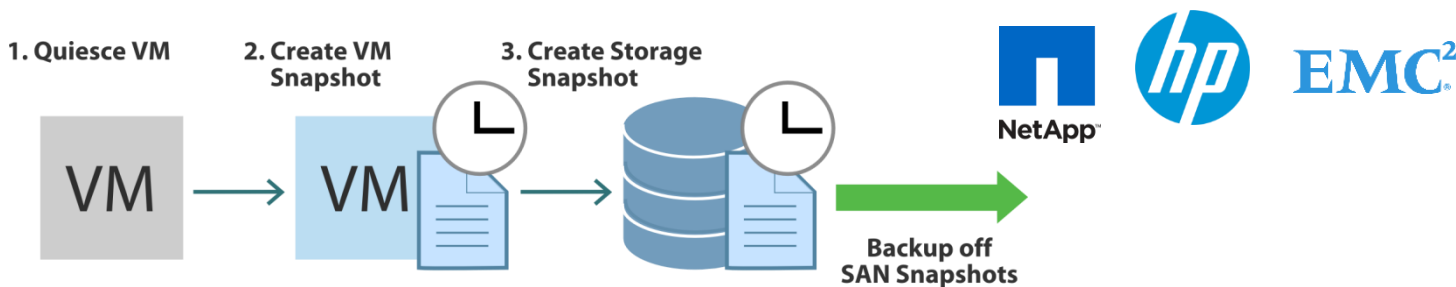
SQL Server



Backup off Storage Snapshots (BoSS)

speed up backup creation for VMware

- Use storage snapshots for Veeam backup creation (up 20x faster) as it leverages CBT.
- Support for HP VSA, LeftHand, P4000 and 3PAR, EMC VNX/VNXe and NetApp ONTAP 8.1 or later, including IBM N-series (FlexClone licensing recommended but not required).

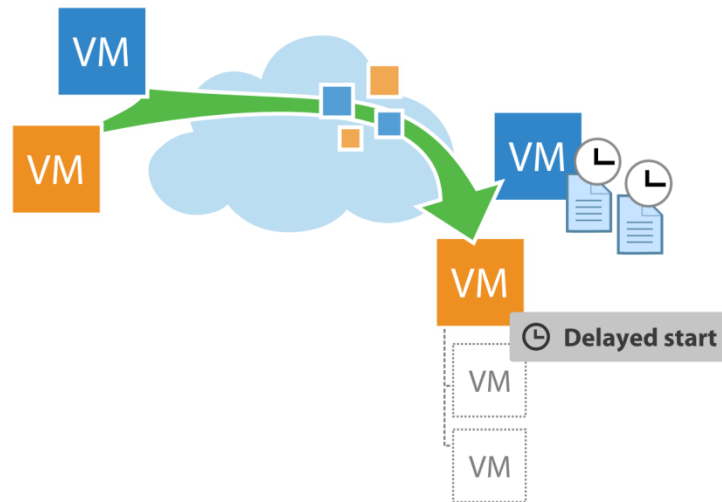


Replication and Failover

support for replication and planned failover

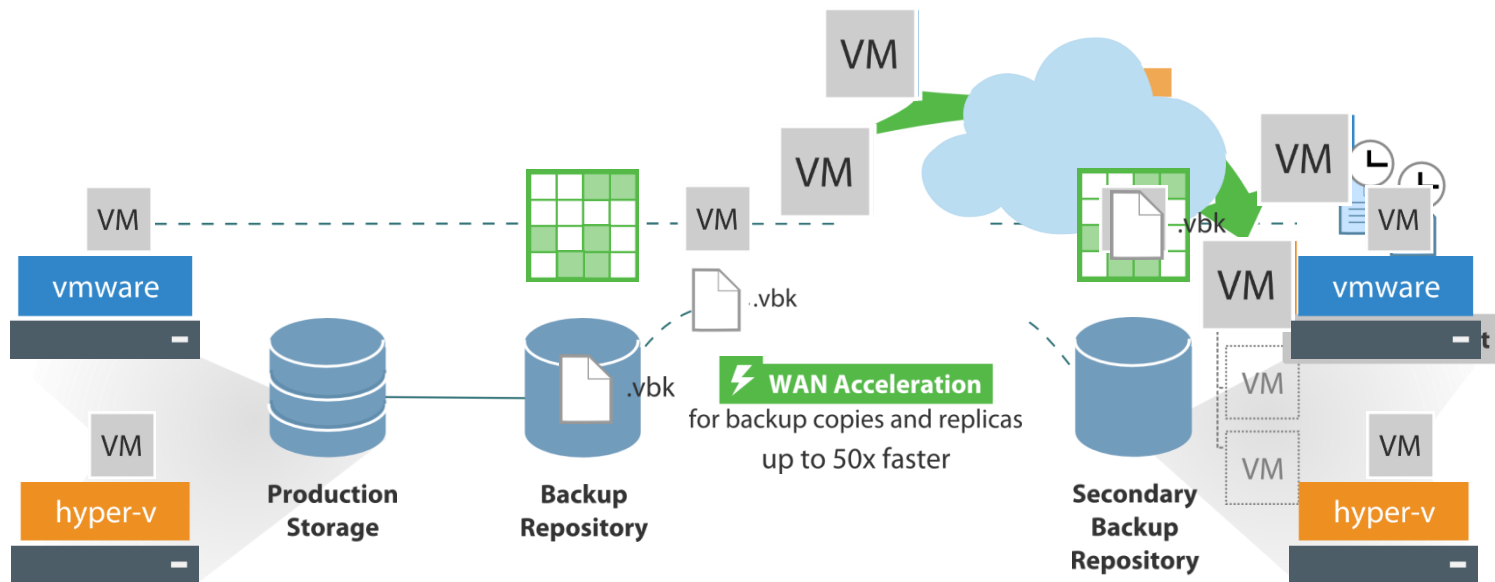
VM-level HA and DR host-based replication using various optimizations with multiple restore points.

- Incremental near-CDP replication with WAN acceleration.
- Re-IP on failover and real failback with delta sync.
- 1-Click failover with defined startup order for VMs.
- **Twist!** Replication from backup file as source.



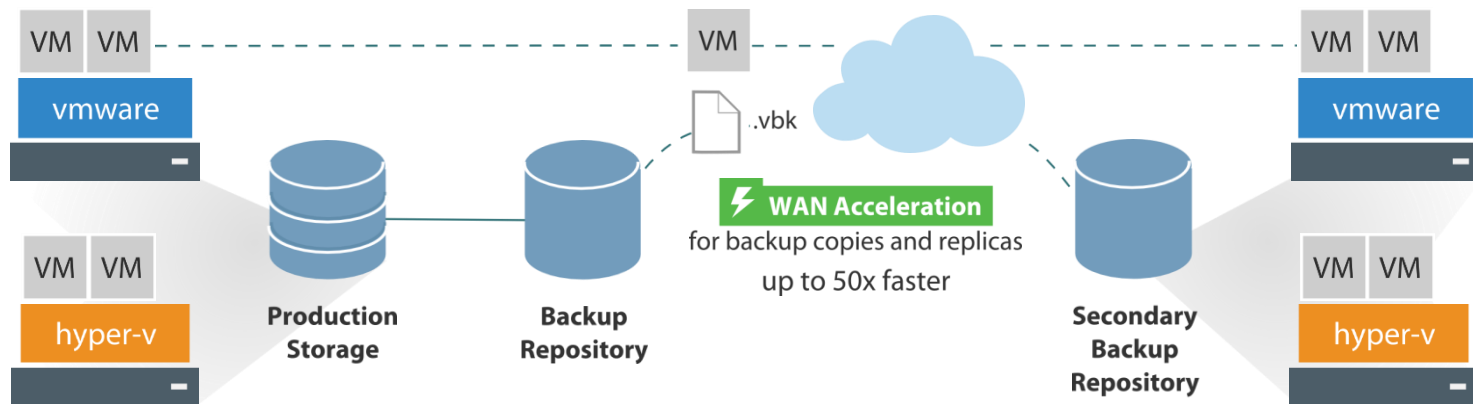
WAN Acceleration

speed up replication and backup copy offsite



WAN Acceleration

speed up replication and backup copy offsite



Backup I/O Control New

monitor the load on production during backup

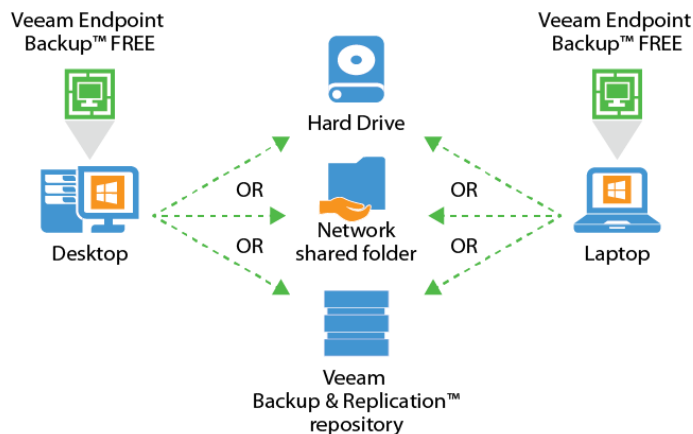
I/O control monitors production storage during backup, allowing backup despite production workload:

- Configure storage latency before backup multiprocessing is limited.
- Configure storage latency before the backup is throttled.



Veeam Endpoint backup

Free for desktops, workstations, laptops and other end user devices)



Fast, hassle-free backups

Easy-to-use recovery

Bootable recovery media with built-in admin tools

Customer support

Integration with Veeam Backup & Replication™

Veeam Endpoint backup

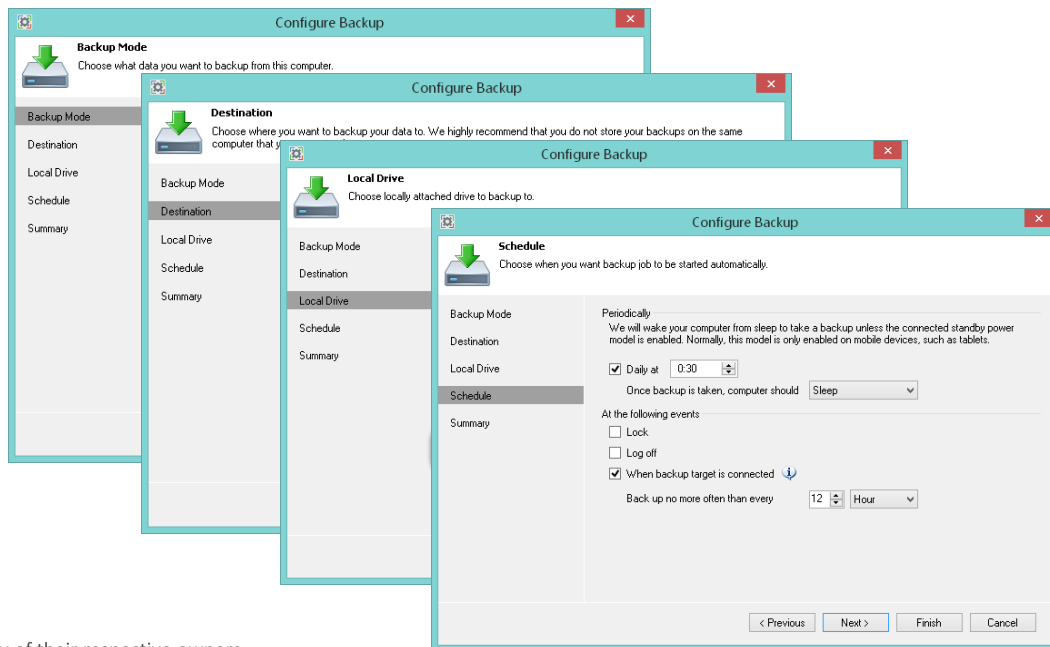
Options for backups

Backup Mode

Destination

Retention

Schedule



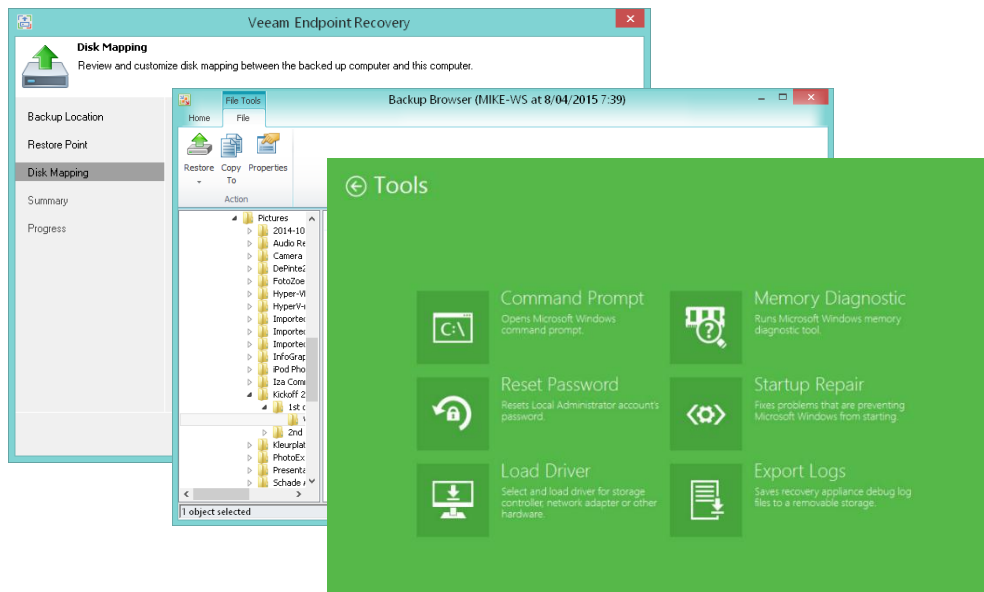
Veeam Endpoint backup

Options for restores

Restore mode

Explorer

Admin tools








Veeam Endpoint backup

And... something cool 😊

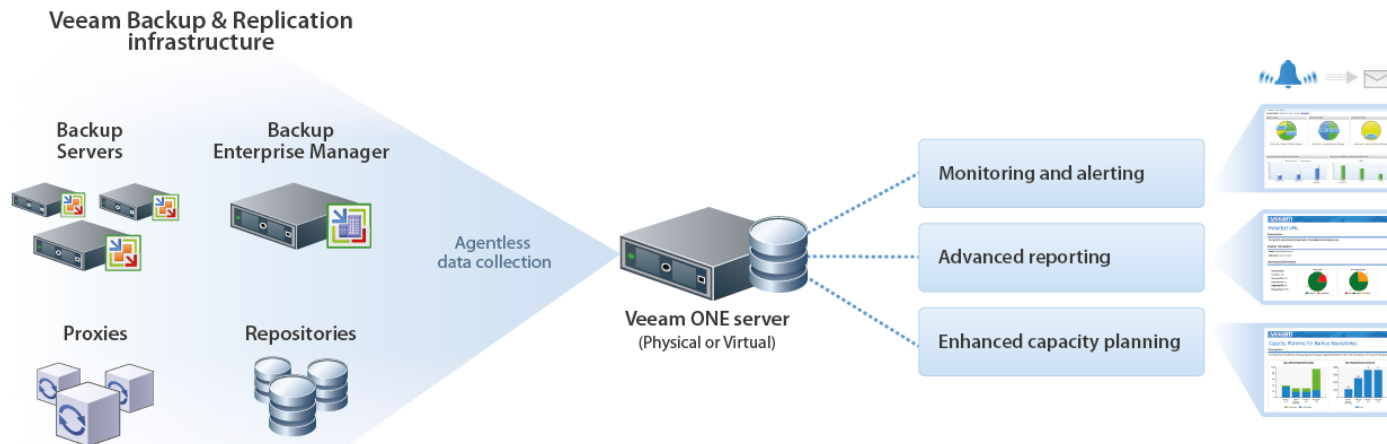
🔍 Type in an object name to search for

Job name	Creation time	Restore points	Repository	Platform
AD Backup	1/10/2015 10:00 PM		Default Backup Repository	Hyper-V
Endpoint Backups				Endpoint
BMRPC		5	Default Backup Repository	
DC01		6	Default Backup Repository	
ENTIREPCBACKUP		7	Default Backup Repository	

	Restore guest files (Microsoft Windows)...
	Export disk contents as virtual disks...
	Remove from backups
	Remove from disk
	Properties

Complete visibility

Monitoring. Reporting. Capacity Planning



Availability for the modern datacenter

trial available at **veeam.com/downloads**

Questions?

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