

A man in a white shirt and dark trousers is reclining in a black office chair in a vast green field. His feet are propped up on a wooden stool. The background shows rolling hills under a cloudy sky.

# Veeam – A practical guide: How to enable availability for your datacenter

Razvan Ionescu  
Veeam Certified Architect & Trainer



# Agenda

Availability today

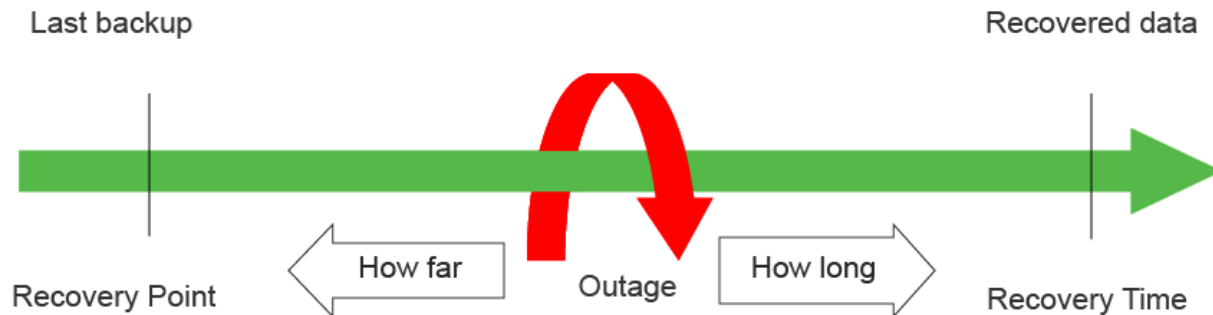
3-2-1 Data Protection Strategy

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
- ✓ RTO < 15 minutes

## Complete Visibility

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

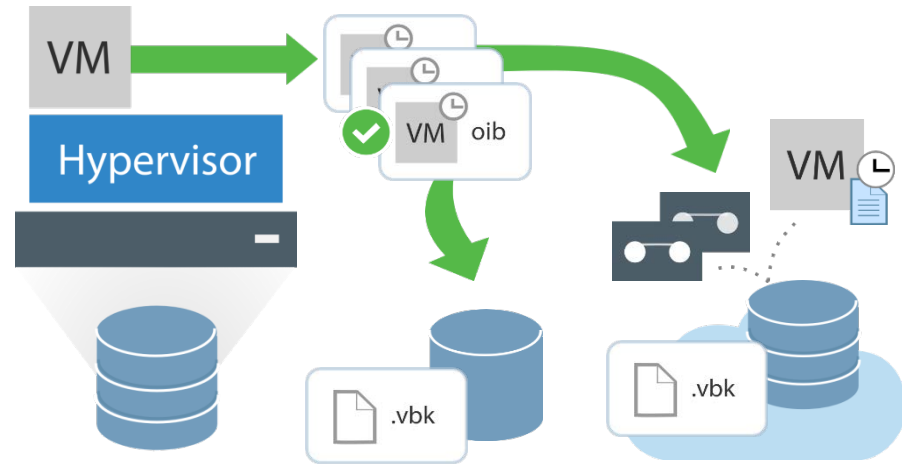


# 3-2-1 Rule

## 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

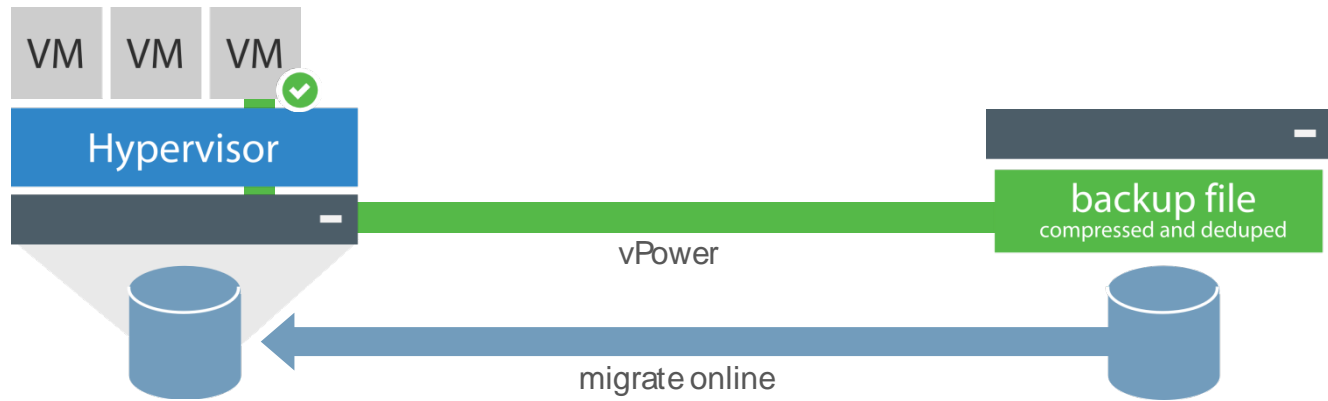
Restart

Minutes



# High Speed Recovery

Instant VM recovery



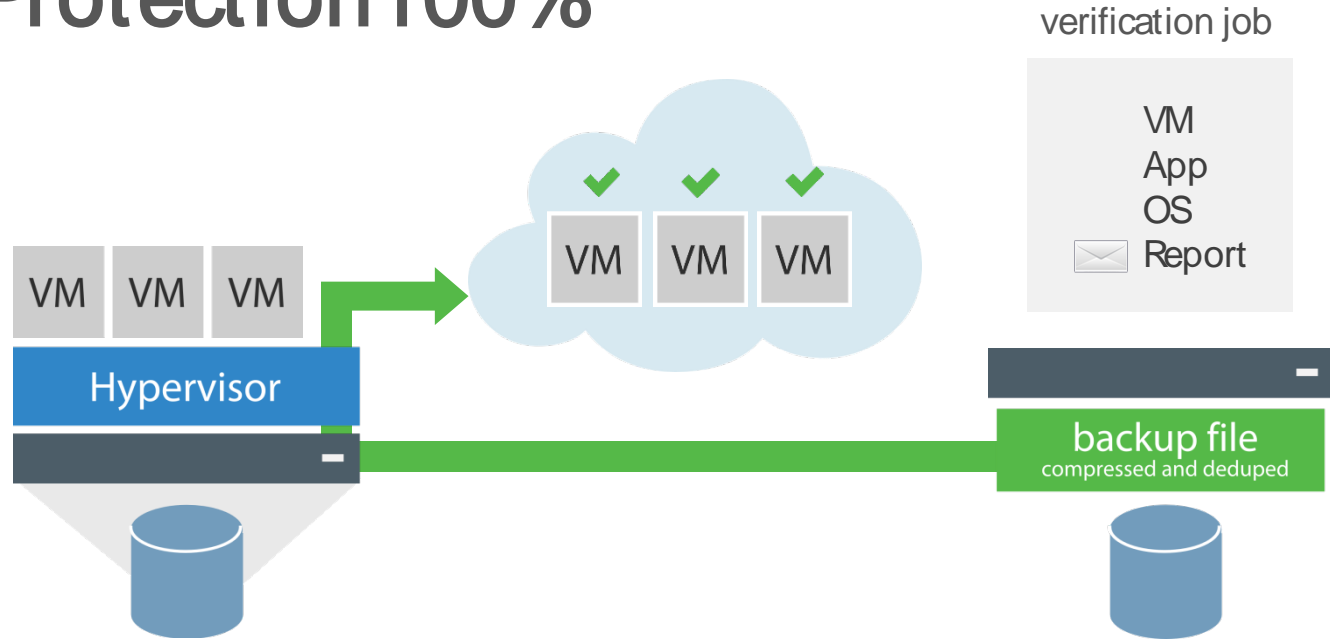
# Can I trust my backup software?

# 100%





# Protection 100%

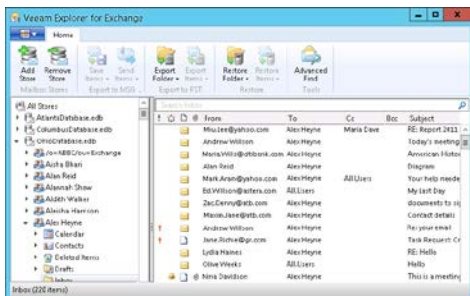


# Veeam Explorers

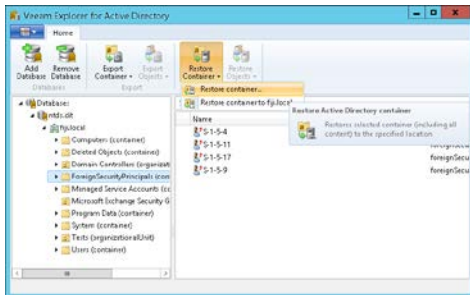
## Granular recovery for files and application items



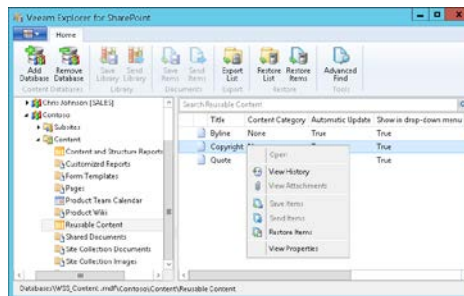
Exchange



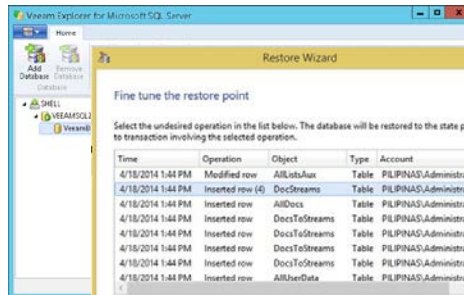
Active Directory



SharePoint



SQL Server

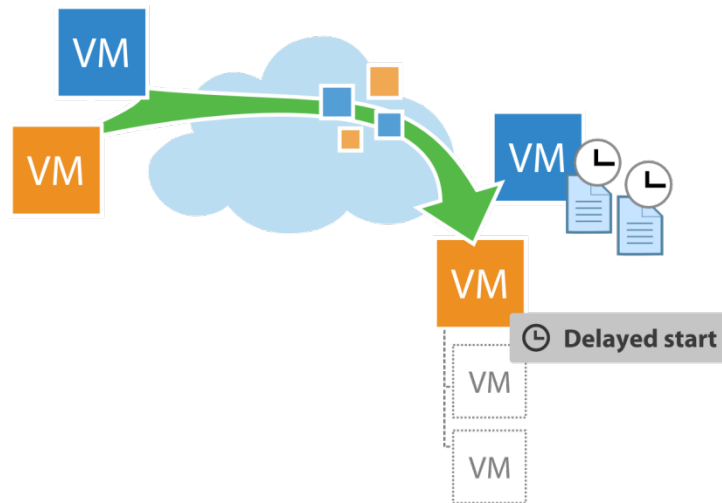


# Replication and Failover

support for replication and planned failover

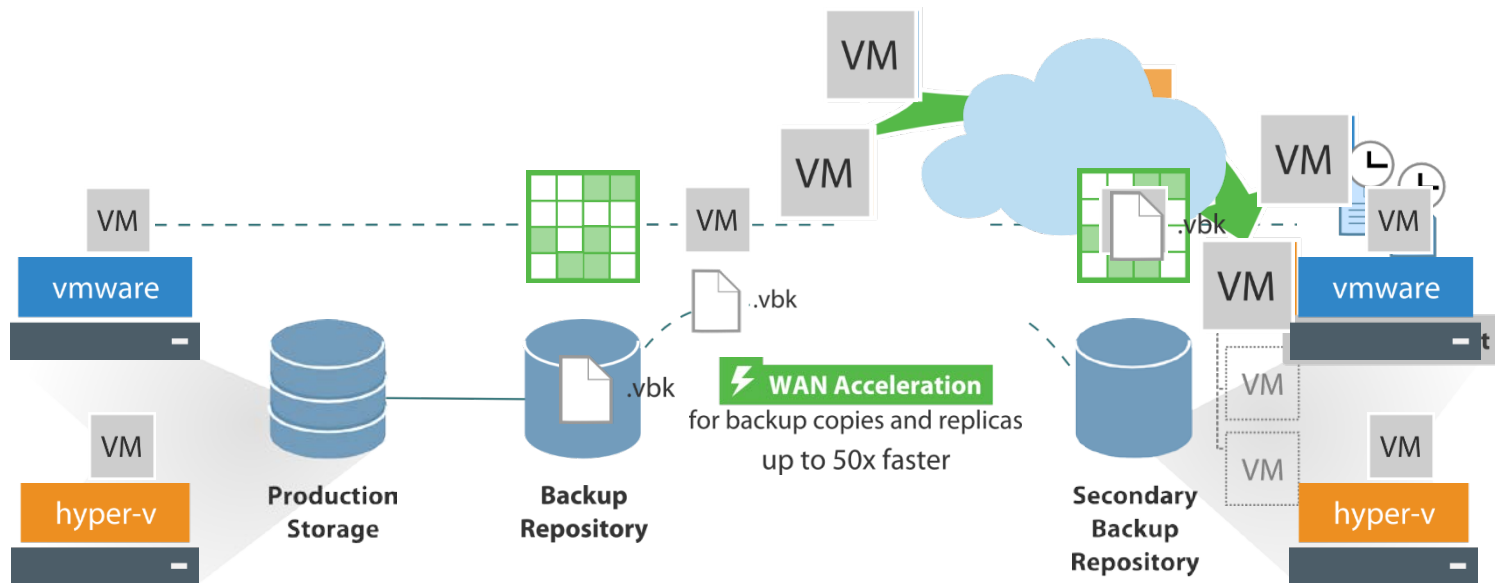
VM-level HA and DR host-based replication using various optimizations with multiple restore points.

- 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

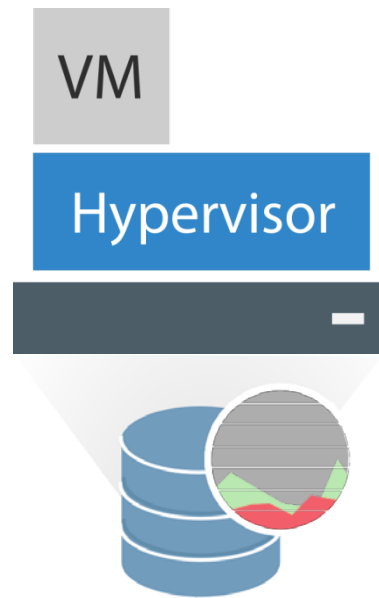


# Backup I/O Control New

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 Agent for Windows

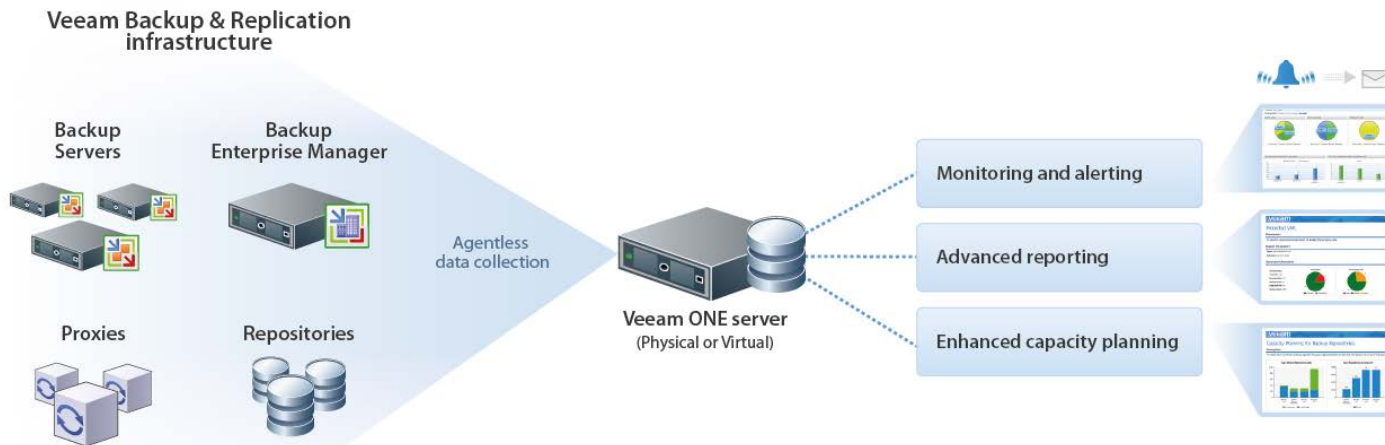
	Free	Workstation	Server
Instant Recovery to Microsoft Hyper-V VM	●	●	●
Direct Restore to Microsoft Azure	●	●	●
Source-side encryption	●	●	●
Endpoint protection for mobile users		●	●
Back up directly to Veeam Cloud Connect		●	●
Remote configuration and management API		●	●
Application-aware processing			●
Transaction log backup for databases			●
Guest file indexing and search			●
24.7.365 technical support		●	●

## Veeam Agent for Linux

	Free	Workstation	Server
Entire computer, volume-level and file-level image-based backup	●	●	●
Built-in volume snapshot and changed block tracking drivers	●	●	●
File-level, volume-level and bare metal recovery (same or different hardware)	●	●	●
Backup and recovery using console UI or command line	●	●	●
Integration with Veeam Backup & Replication	●	●	●
Support for multiple jobs			●
Pre-freeze/post-thaw snapshot scripts for application processing			●
Guest file indexing, catalog search and restore with Veeam Backup Enterprise Manager			●
24.7.365 technical support		●	●

# Complete visibility

Monitoring. Reporting. Capacity Planning





# Availability for the modern datacenter

## Questions?

Razvan Ionescu

Veeam Certified Architect & Trainer  
[razvan.ionescu@techdata.com](mailto:razvan.ionescu@techdata.com)

Cornel Popescu

Systems Engineer SEE, Veeam Software  
[cornel.popescu@veeam.com](mailto:cornel.popescu@veeam.com)

trial available at [veeam.com/downloads](https://veeam.com/downloads)