Veeam – Availability for Mødern Datacenter Varna, 15 May 2016

Cornel Popescu Systems Engineer, Veeam Software cornel.popescu@veeam.com



Hewlett Packard Enterprise





Alliance Partner







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

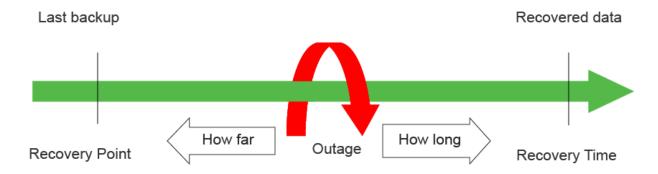
3-2-1 Data Protection Strategy

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





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

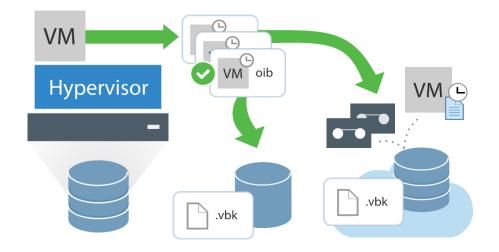




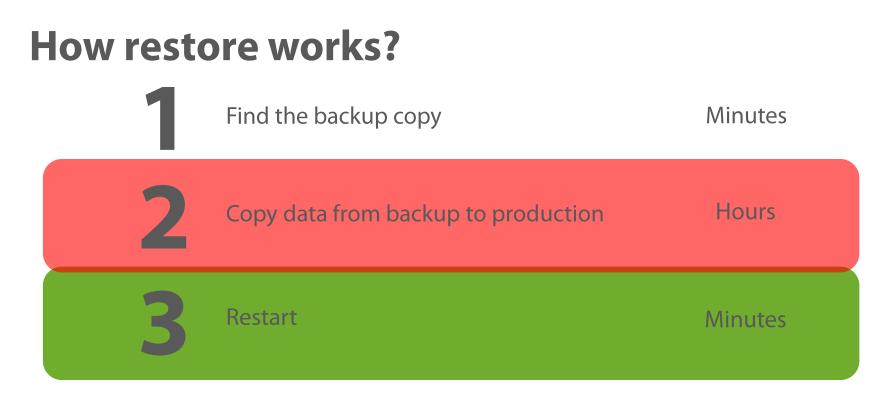
3-2-1 Rule avoiding recovery failure

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

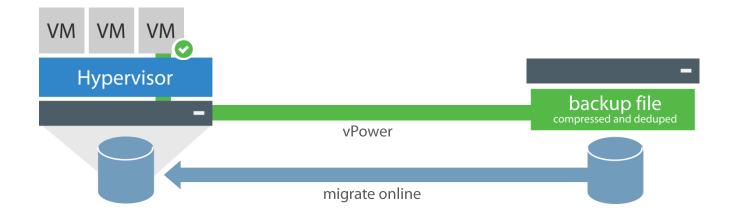














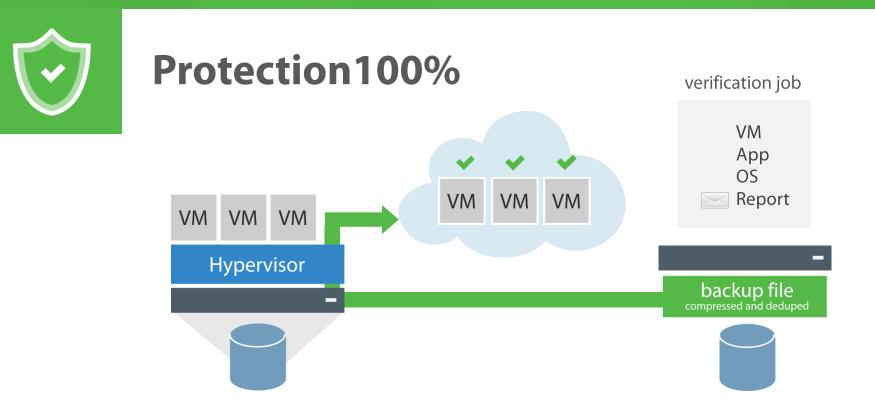
÷

+

Can I trust my backup software?

100%







Can I do something more?

Q: When I need copies of my data sets? A: Everytime I perform tests!



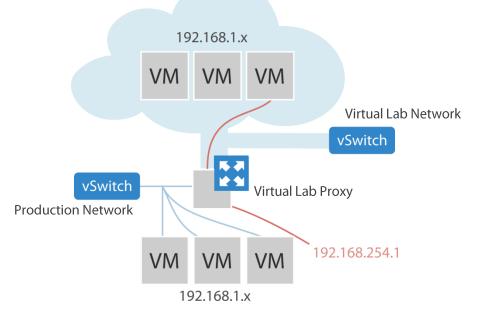


Leverage Data use backup to spin up test environments

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



si veeam Exp	forer for Exchan	70								
Horr	ie in the second se									
Add Remov Store Store Mailbax Stores	Save Send Items - Items Export to MSG		Expor Folde Exp	t I	Expo term	rt Restore Restore s - Folder - Items -	Advanced Find Tools			
📇 All Stores		<u> </u>		rch I		C				۶
AtlantaDa	tabase.edb	Ξ	1.2	3.0	- 0	From	To	Cc	Bcc	Subject
Columbus	Database.edb			2		Miu.Lee@yahoo.com	Alex Heyne	Maria Dave		RE: Report 2011
OhioDatabase.edb All /o=ABBC/ou=Exchange Aisha Bhari				2		Andrew Willson	Alex Heyne			Today's meeting
					1	Maria.Wills@citibank.com	Alex Heyne			American Histor
				2		Alan Reid	Alex Heyne			Diagram
🕨 👪 Alan Re				2		Mark.Aram@yahoo.com	Alex Heyne	All.Users		Your help neede
🕨 👪 Alanna				2	4	Ed.Willson@astera.com	All.Users			My Last Day
Aldith Walker Aleisha Harrison Aleisha Harrison Alex Heyne Calendar					1	Zac.Denny@atb.com	Alex Heyne			documents to sig
						Maxim.Jane@atb.com	Alex Heyne			Contact details
			it.		i .	Andrew Willson	Alex Heyne			Re: your email
			1		i i	Jane.Richie@gr.com	Alex Heyne			Task Request: Cr
See Contraction 1	tects ted ltems					Lydia Haines	Alex Heyne			RE: Hello
 Image: Second Sec						Olive Weeks	All.Users			Hello
 Unit Unit 		1	1.3	۶D	6	Nina Davidson	Alex Heyne			This is a meeting
nbox (220 items)										

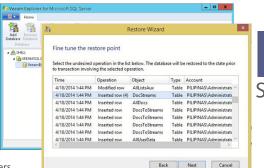
- D X







Home Home Add Remove Database Databases	Export Cantainer - Objects - Export	Restore Container - Objects -			
 Del Dor Fon Mat Mic Pro Syst Tes 	I puters (container) ted Objects (container) main Controllers (organizati ingel Service Accounts (cc rotoft Exchange Security O gem Data (container) sem (container) tet (organizationalUnit) rs (container)	2 観 Retore cartainer to fiplic Nore 第15-15-4 書15-15-51 書15-5-77 書15-15-77 書15-15-77 書15-15-77	Reture Active Directory container Reture active Directory container Returns articled continue (including all content to the specified including Returns) Ret		







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).



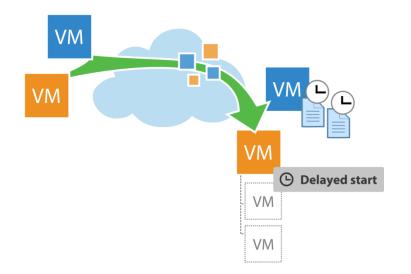


Replication and Failover

support for replication and planned failover

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

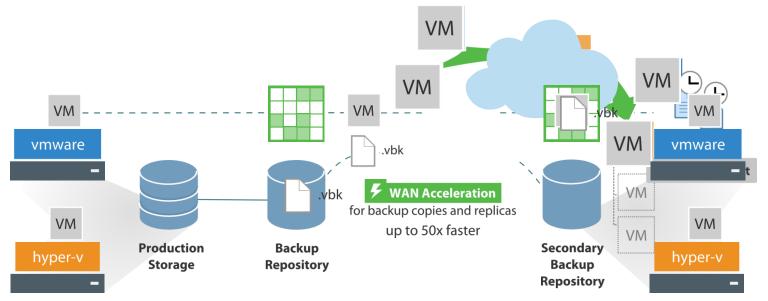
- Incremental near-CDP replication with WAN acceleration.
- Re-IP on failover and real failback with delta sync.
- 1-Click failover with defined startup order for VMs.
- Twist! Replication from backup file as source.





WAN Acceleration

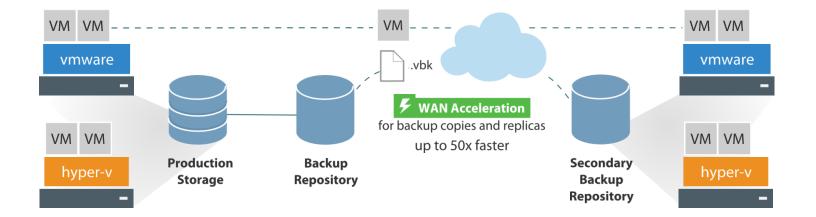
speed up replication and backup copy offsite





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:

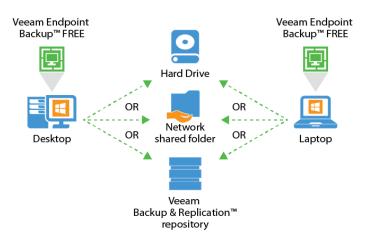
- Configure storage latency before backup multiprocessing is limited.
- Configure storage latency before the backup is throttled.





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

1	(Configure Backup		×	
Backup Mod	e data you want to backup from th Destination	is computer.	Configuents to backup to.	not store your backups on the same ure Backup Configure Backup	×
		Destination Local Drive Schedule Summary	Choose when you w Backup Mode Destination Local Drive Schedule Summary	verifically Periodically We will wake your computer from sleep to take a backup unless the commodel is enabled. Normally, this model is only enabled on mobile devices, Image: The backup is taken, computer should Once backup is taken, computer should Daily at Once backup is taken, computer should Lock Do gott When backup target is connected Back up no more often than every 12 Hour	nected standby power such as tablets.
				< Previous Next > F	Finish Cancel

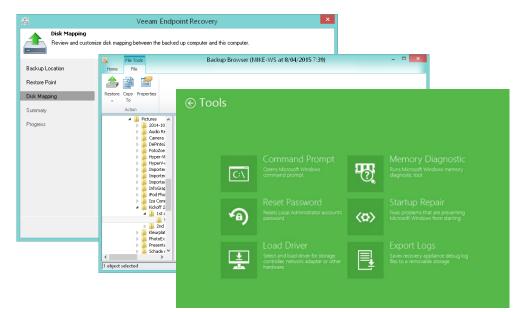


Veeam Endpoint backup Options for restores

Restore mode

Explorer

Admin tools



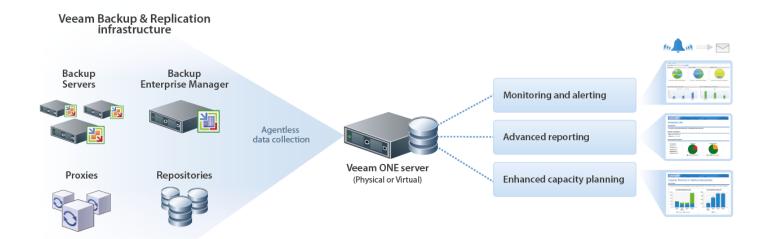


Veeam Endpoint backup And... something cool ③

D Type in an object name t	o sea	urch 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
	₹; 22 ■x	Restore guest files (Microsoft Windows) Export disk contents as virtual disks Remove from backups Remove from disk Properties	5 6 7	Default Backup Repository Default Backup Repository Default Backup Repository	



Complete visibility Monitoring. Reporting. Capacity Planning



Availability for the modern datacenter

Questions?

Cornel Popescu Systems Engineer SEE, Veeam Software **cornel.popescu@veeam.com**

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

