

Veeam Availability Platform: Управление данными как сервис

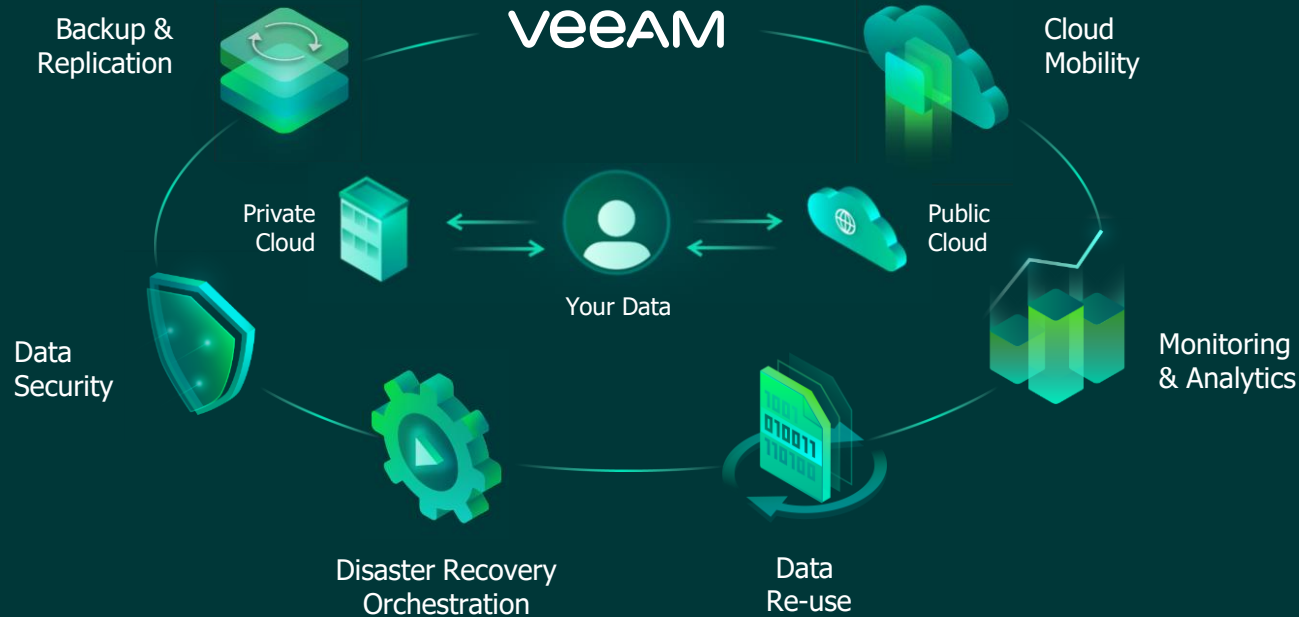


Vitaly Savchenko
SE Manager Russia

veeam

vision

Veeam Modern Data Protection





Backup as a Service

Backup & Replication



RTPO

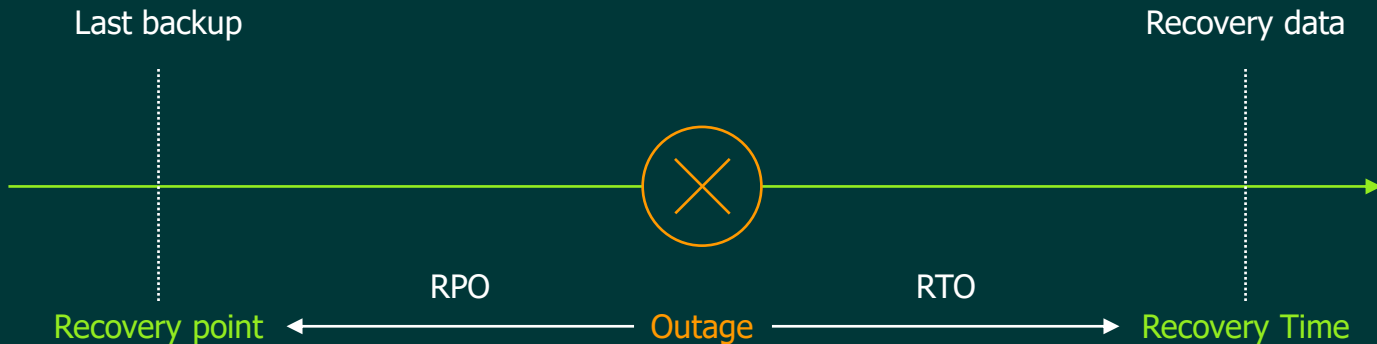
Recovery Point Objective (RPO)

Допустимое время восстановления

Recovery Time Objective (RTO)

Допустимая потеря информации

$RPO \text{ and } RTO = RTPO^{\text{TM}}$



Virtual



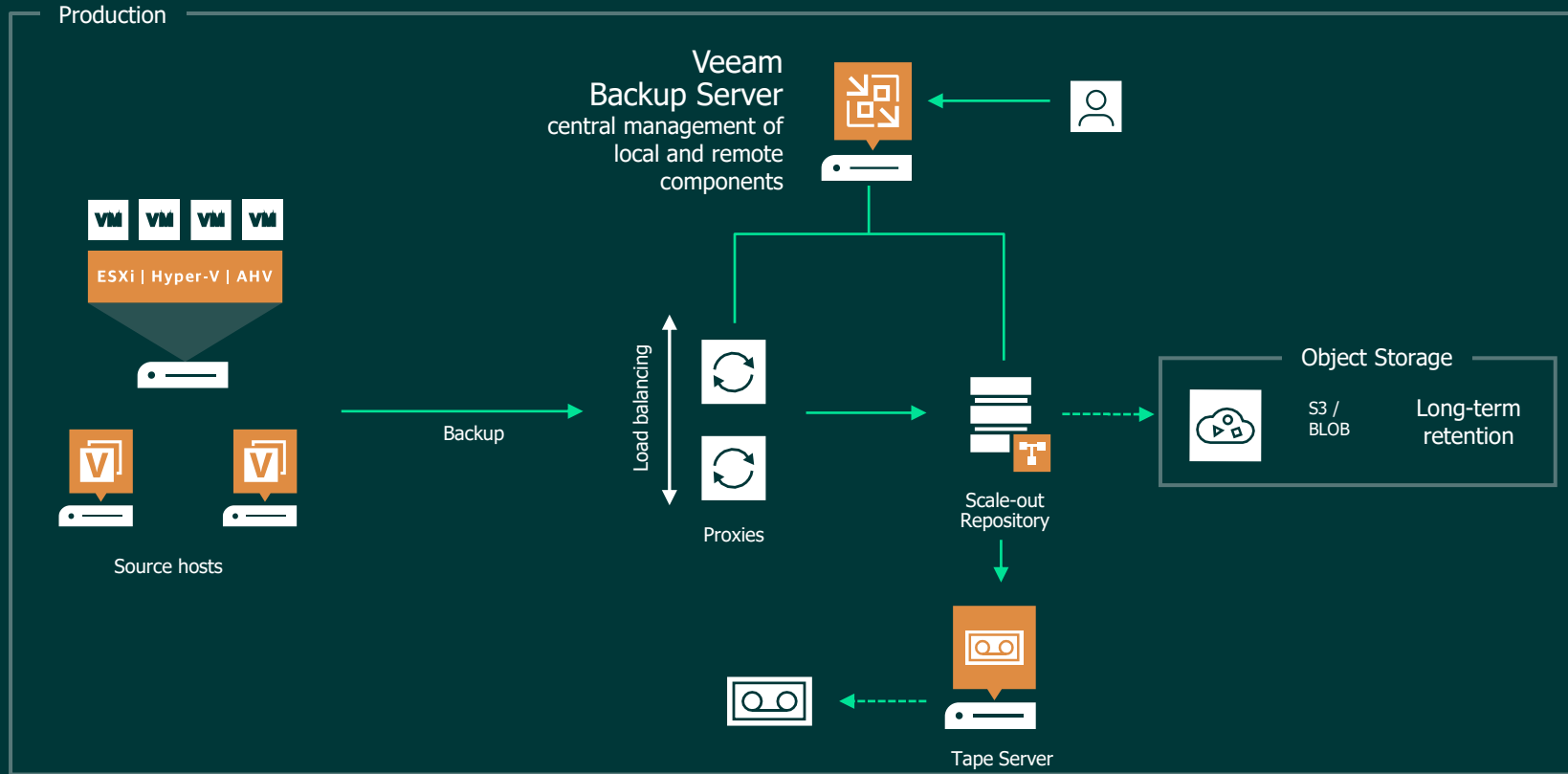
vmware®

Microsoft
Hyper-V

NUTANIX™ AHV

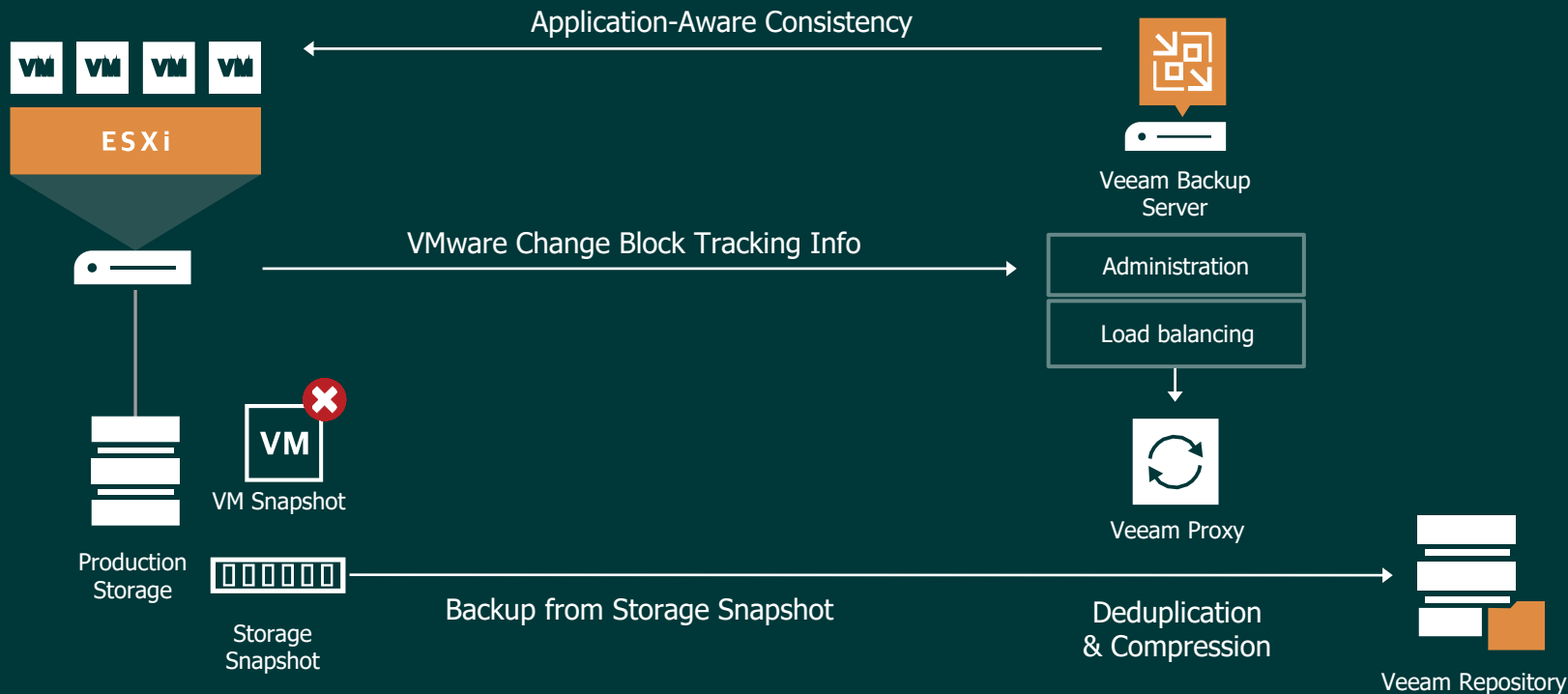
RPO

Архитектура Veeam

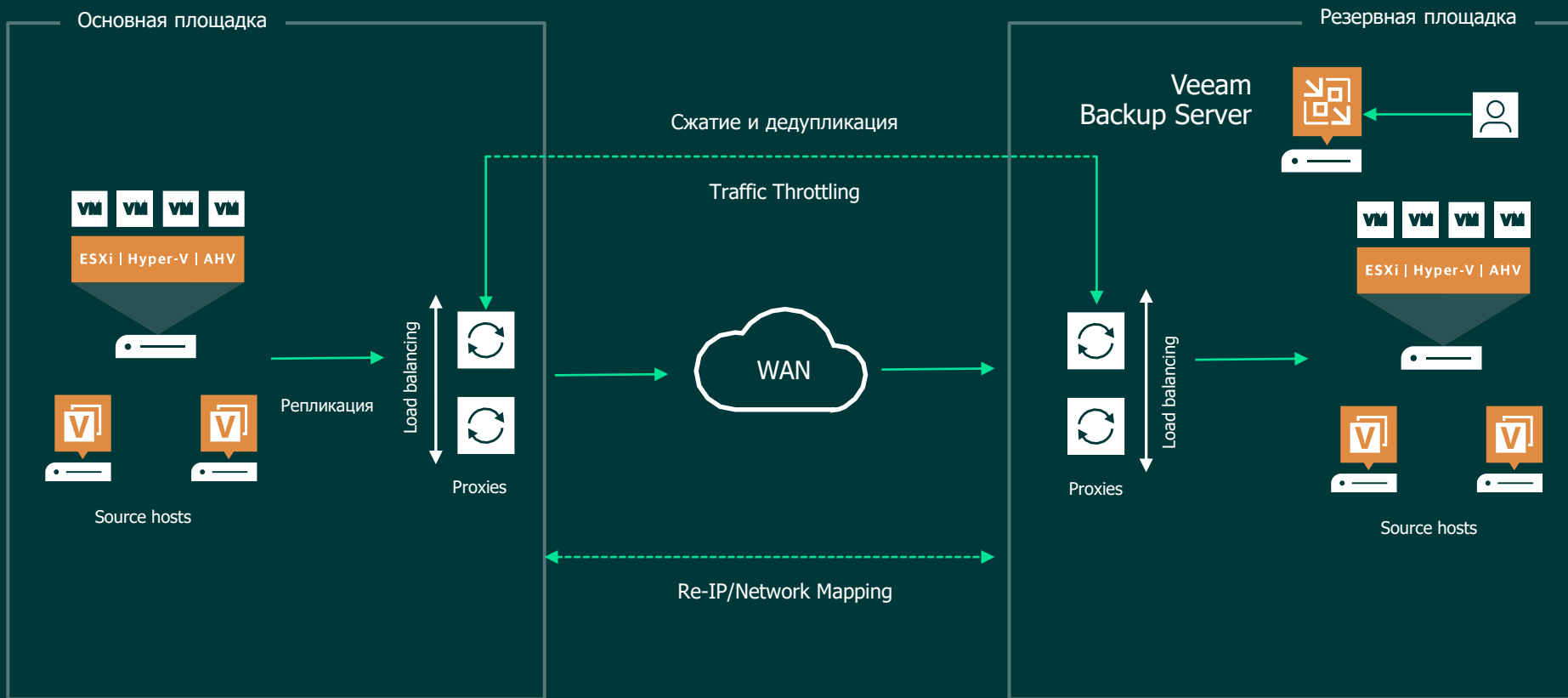


Backup from Storage Snapshots

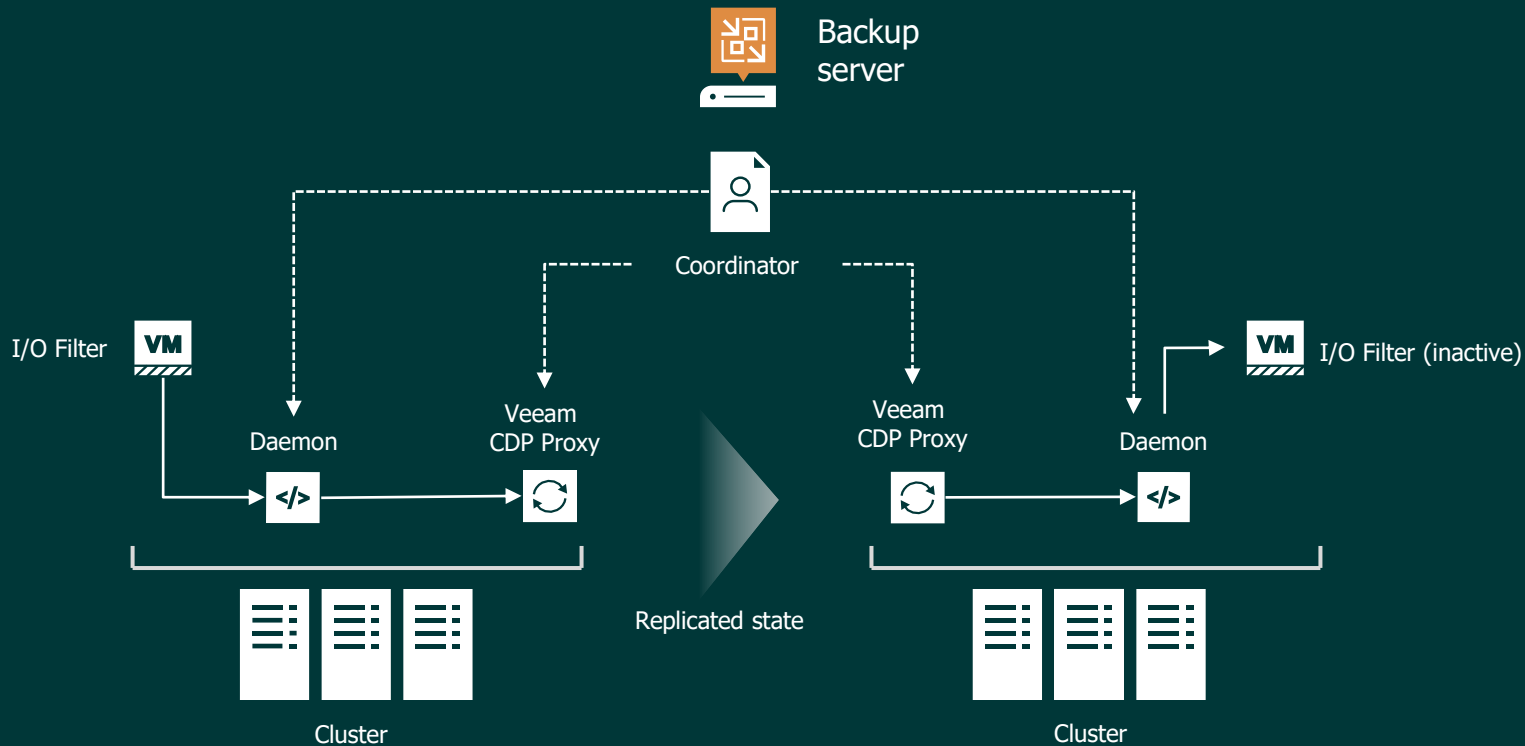
Минимизация влияния на продуктив и улучшение RPOs



Репликация



Почти синхронная репликация CDP



Минимальный RPO

Минимально 2 секунды

Рекомендация: не меньше 15 секунд

Recovery point objective (RPO):

RPO defines the maximum acceptable data loss in case of a protected VM failure.

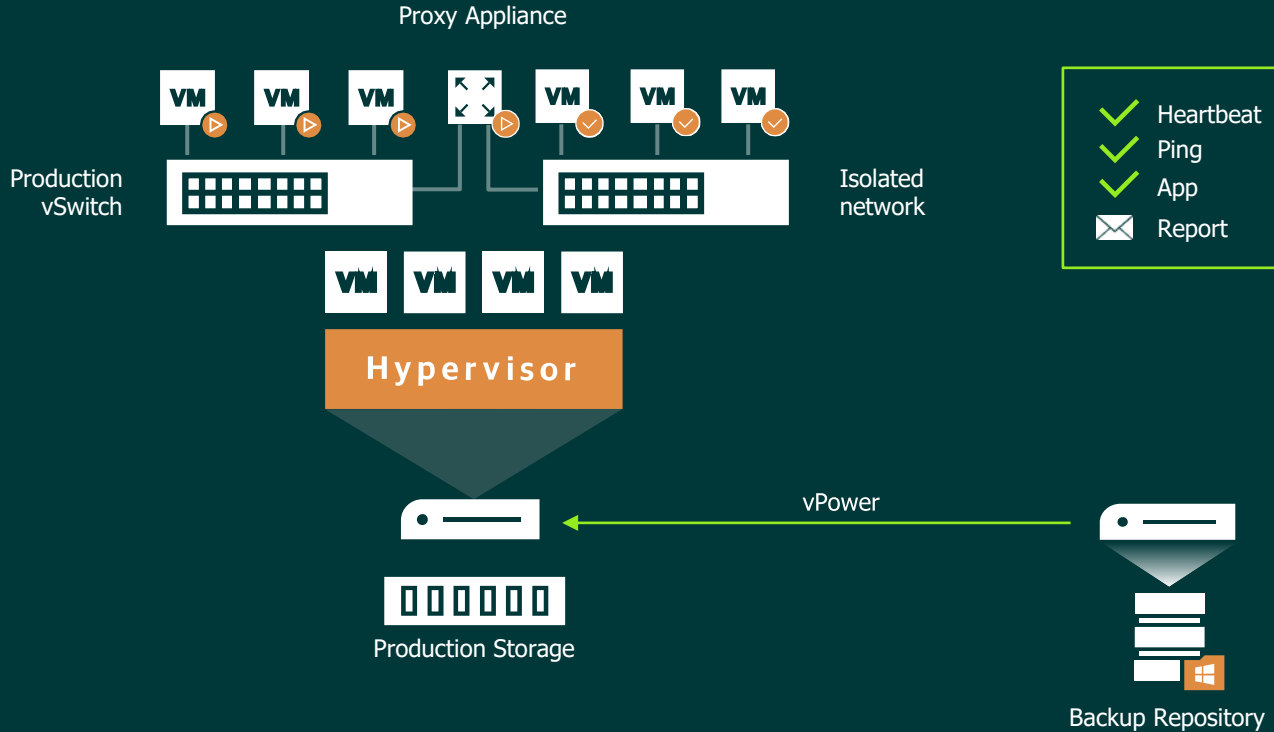
Short-term retention

Enable point-in-time recovery within:

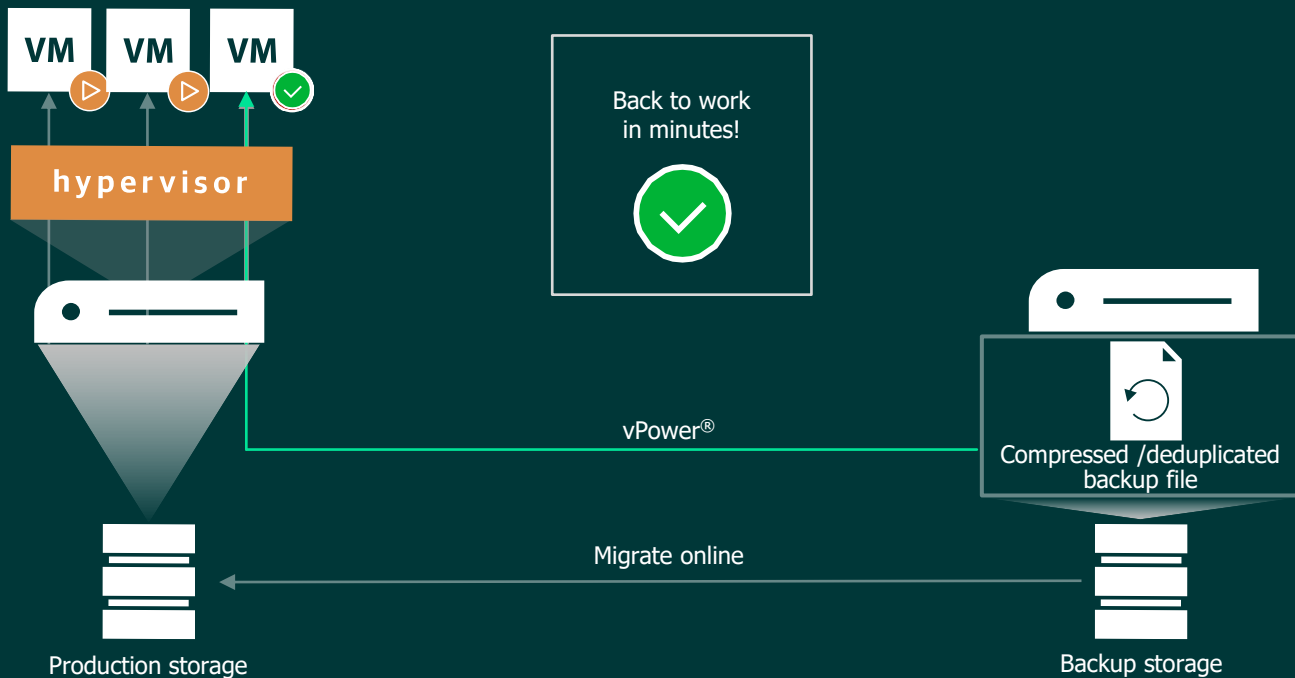
Defines how far back can you go from the latest state for a point-in-time recovery. The bigger this interval is, the more disk space is required on the target datastore to store the I/O journal.

RTO

SureBackup



Instant VM Recovery



Veeam Explorers



Veeam Explorer
for Oracle



Veeam Explorer
for Microsoft SharePoint



Veeam Explorer
for Microsoft Active Directory



Veeam Explorer
for Microsoft SQL Server



Veeam Explorer
for Microsoft Exchange



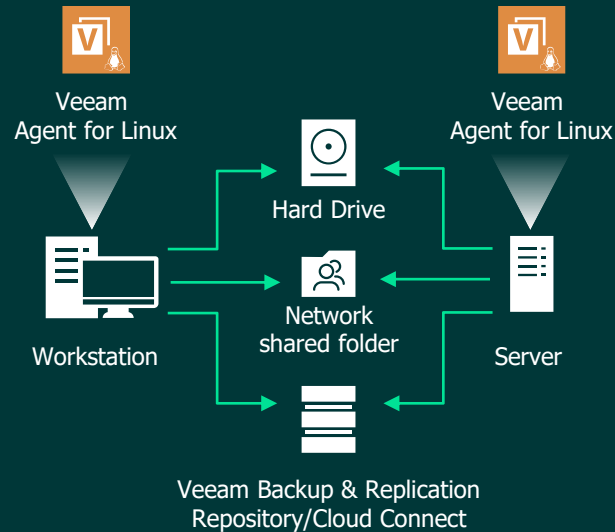
Veeam Explorer
for Storage Snapshots
HPE, Cisco, NetApp, IBM, DellEMC, Lenovo, Nimble,
INFINIDAT, and Pure Storage

Physical

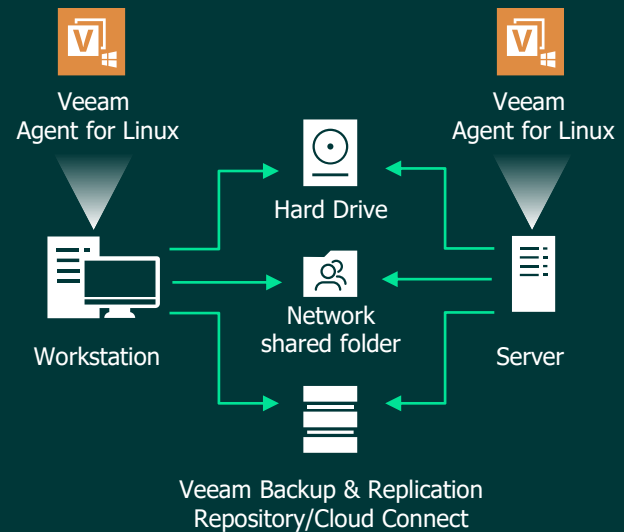


Управление агентами из одной консоли

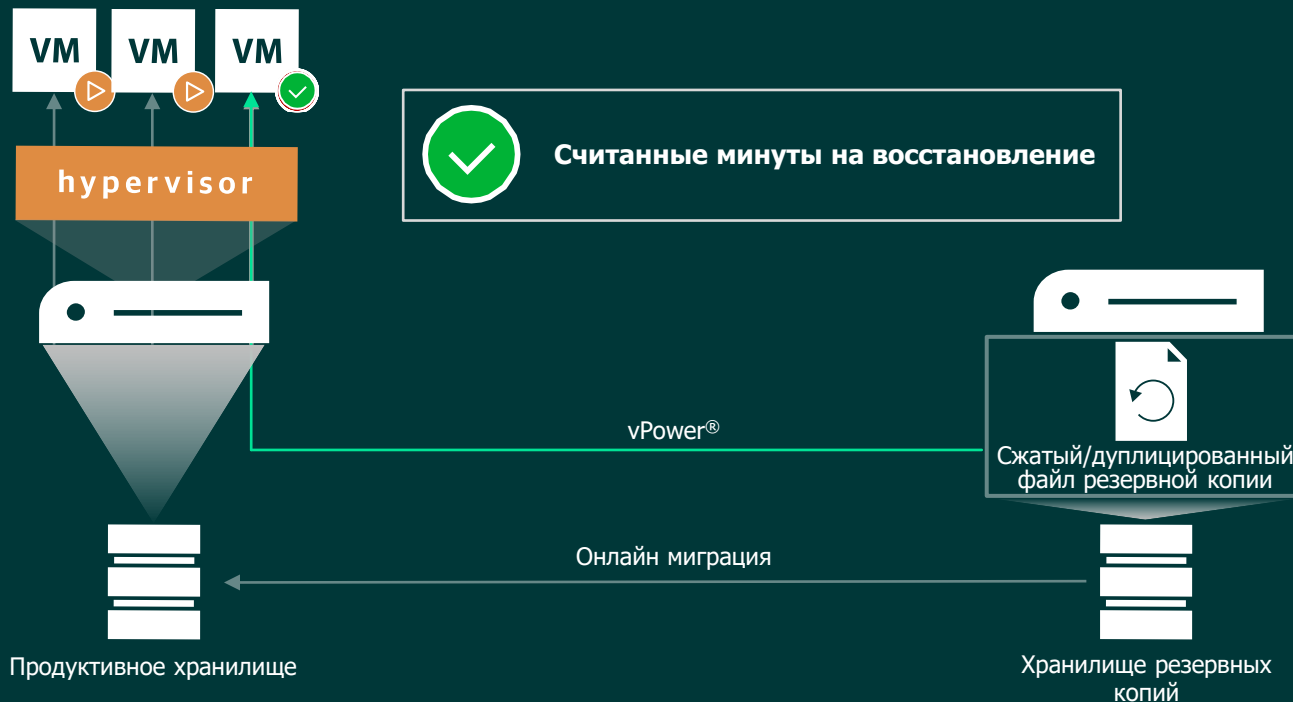
Veeam Agent for Linux



Veeam Agent for Windows

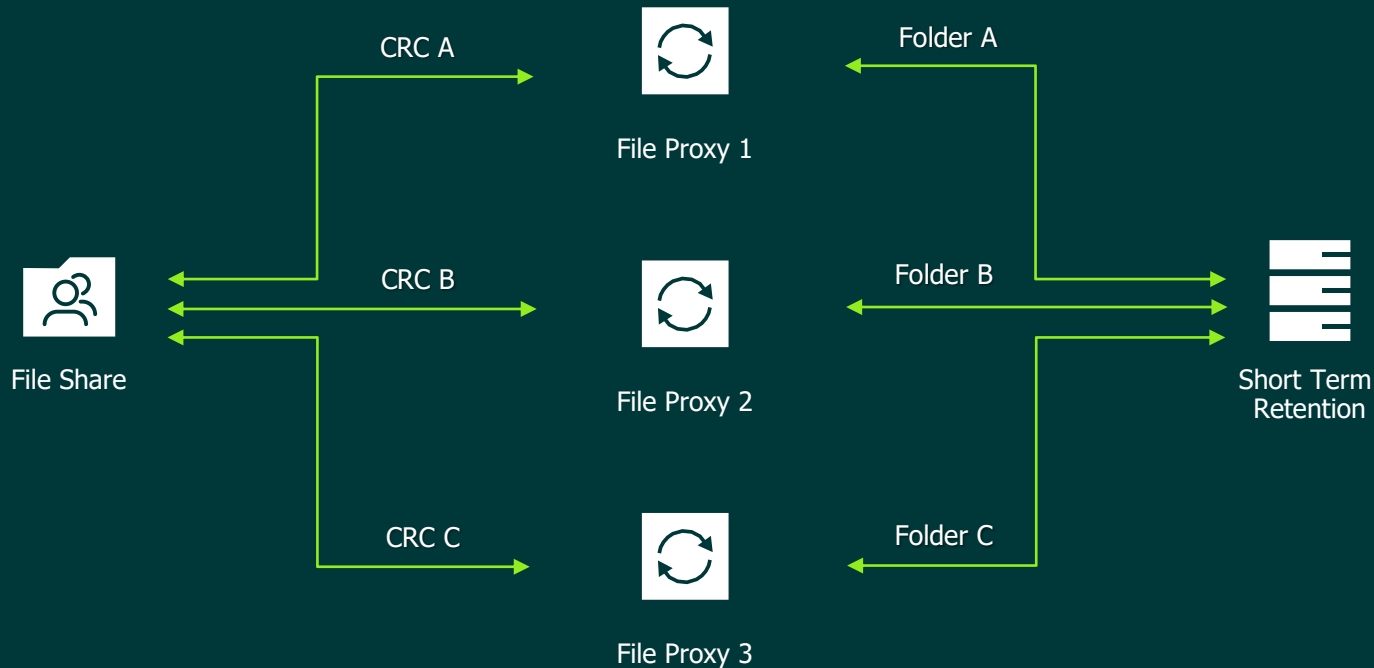


Моментальное восстановление

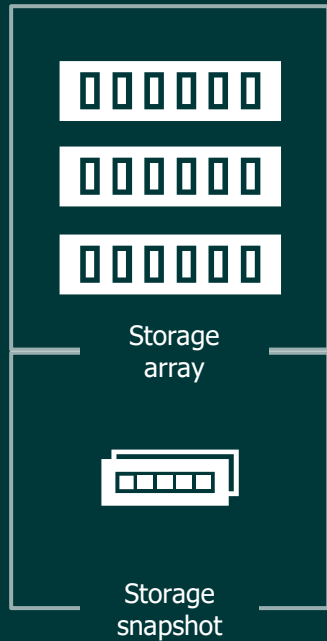


NAS Backup

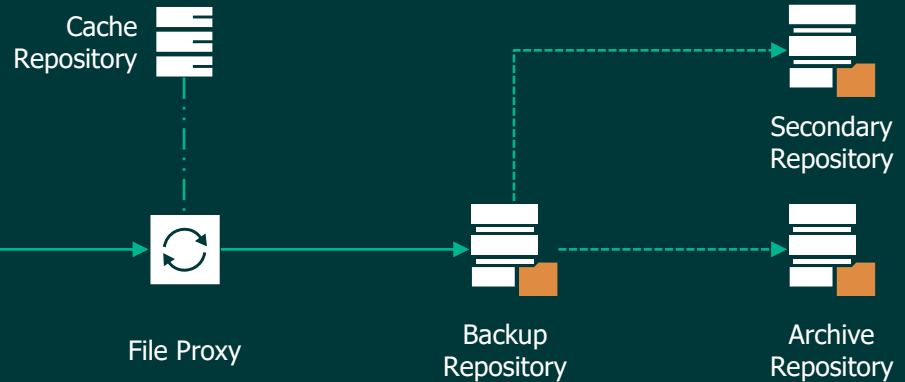
Архитектура – Масштабирование



Поддержка снимков СХД

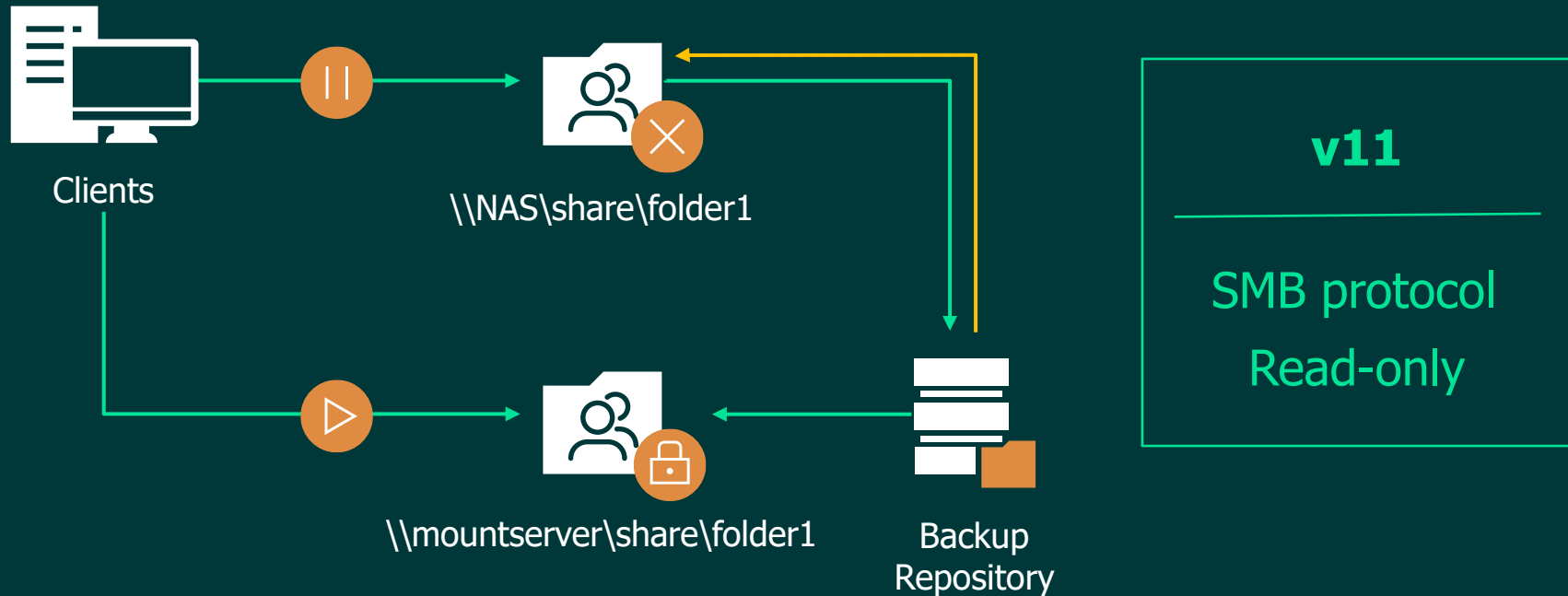


- Поддержка снимков СХД
 - Для копирования заблокированных файлов



Instant File Share Recovery (пока только для SMB Protocol)

Instant File Share Recovery для SMB



Apps



Databases



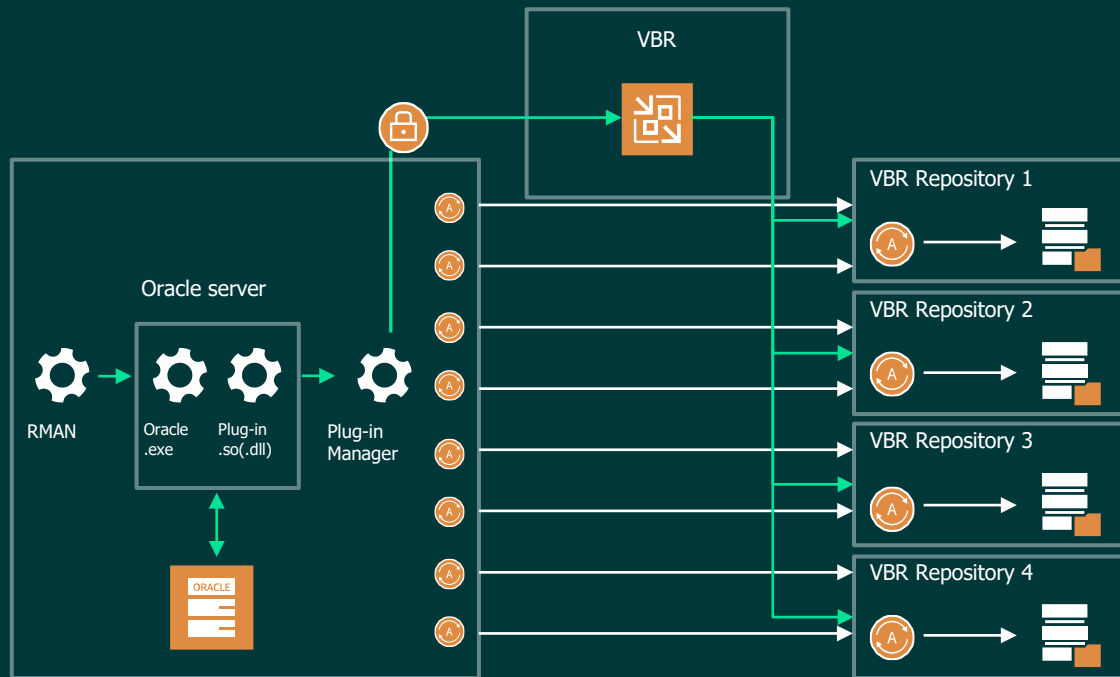
Active Directory



kubernetes

Oracle RMAN

Позволяет бэкапить RMAN на Veeam Backup & Replication



Veeam + Kasten

a strong foundation

multi-workloads

– traditional & containerized

multi-environments

- on-premises and/or cloud

multi-data services

– application aware

multi-storage vendors

– no lock-in



Kasten, a Veeam company for Kubernetes-native

Data Protection and Mobility for Kubernetes



Backup &
Recovery



Application
Mobility



Disaster
Recovery



Multi & Hybrid
Cloud



Polyglot
Persistence



Multi-Tenancy
RBAC

Kasten K10

kubernetes backup and mobility made easy

K10 PLATFORM



Application
Discovery



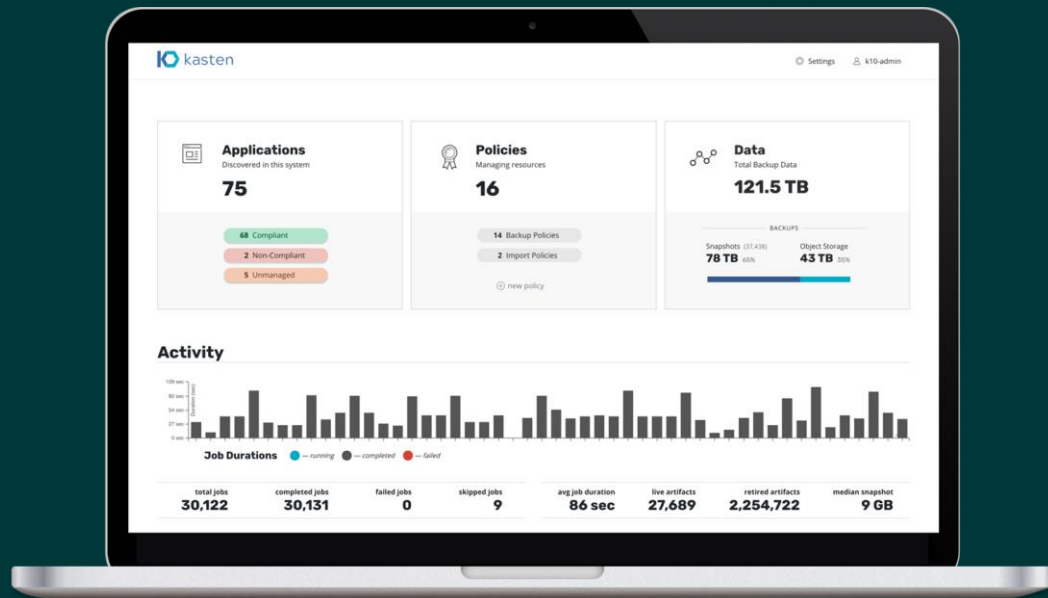
Policy-driven
Automation



Ease of Use,
Simple UX



End-to-End
Security



Data Services



PostgreSQL



mongoDB



MySQL™



cassandra



Amazon RDS

Distributions



Google Kubernetes Engine



AmazonEKS



Azure Kubernetes Service (AKS)



IBM KKS



RED HAT
OPENSIFT



Pivotal
Container Service



OPENSIFT



RANCHER



Container Orchestration



kubernetes

Storage Infrastructure



Google Cloud Storage



PURESTORAGE®



Azure Blob



S3 Compatible



NetApp™



MINIO

DELL EMC



CSI



ceph



AWS EBS

K10
PLATFORM

Data
Management
Platform

Cloud



IBM Cloud



Google Cloud



VMware Cloud Director

AWS/AZURE/GOOGLE

 Veeam Backup for AWS

Server time:
Dec 7, 2020 5:49 PM

 administrator
Portal Administrator



 Configuration

Infrastructure

 Overview

 Instances

Management

 Policies

 Protected Data

 Sessions Log

EC2RDSVPC

Policy

 Start  Stop  Disable  Add  Edit  Priority  View Info  Remove  Advanced  Export...

 (None)

☐	Priority	Policy	Snapshots	Backups	Replication	Last Run	Descript
Selected: 1 of 2							
☒	1	EC2 Backup Policy Snapshots	Success	Not Configured	Not Configured	12/07/2020 3:00:06 PM	Snapshots of f
☐	2	EC2 Backup Policy Snapsho...	Warning	Not Configured	Warning	12/07/2020 4:00:13 PM	—

Instances

Instance

Status:   

Instance	Status
le-win_serv_2019	Success
le-amlinux_2	Success
le_ubuntu_18	Success
le_deptsb	Success

Sessions

Status:   

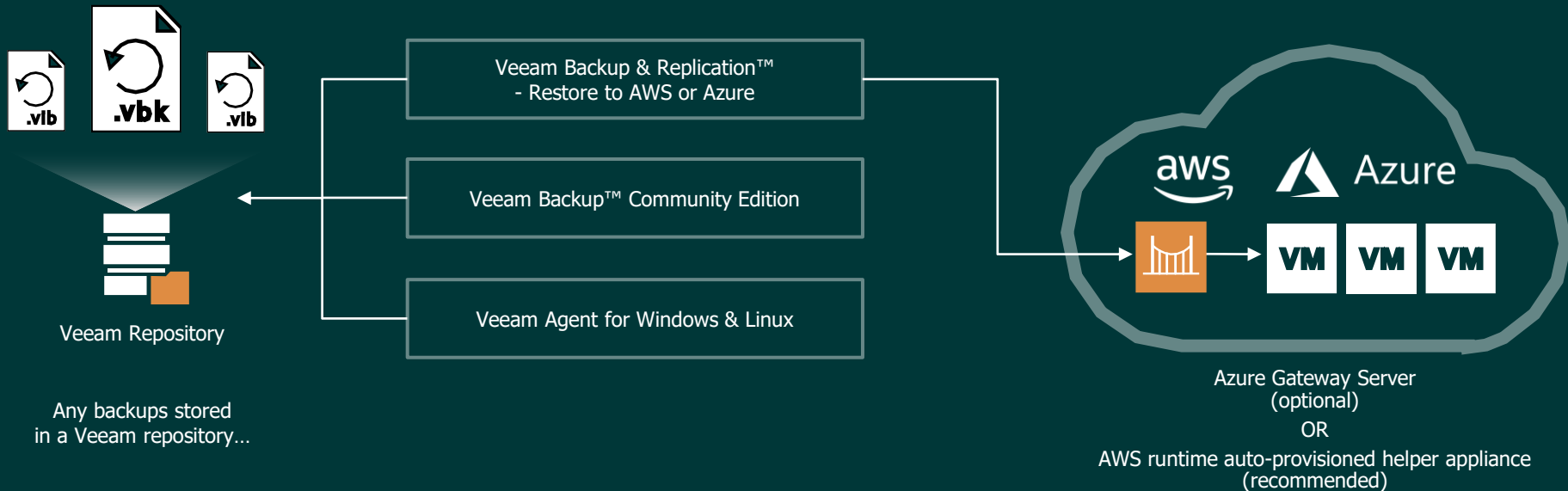
Types:   

Type	Time	Status
Snapshot	12/07/2020 3:00:06 PM	Success
Snapshot	12/07/2020 7:00:13 AM	Success
Snapshot	12/06/2020 3:00:10 PM	Success
Snapshot	12/06/2020 7:00:09 AM	Success
Snapshot	12/05/2020 3:00:10 PM	Success

Cloud Mobility



Мобильность резервных копий





Самообслуживание

Self-Service - Делегирование

The screenshot displays the 'Self-Service Backup Portal for Lab 07. User' interface. The top navigation bar includes 'Dashboard', 'Jobs', 'VMs', 'Files', and 'Items'. The 'Jobs' tab is selected. Below the navigation bar, there is a search bar for 'Job name' and a 'Status (All)' filter. A table with columns 'Name', 'Type', and 'Status' is visible. A '+ Create...' button is highlighted with a red box. A red arrow points from this button to the 'Create Backup Job' dialog box. The dialog box has a title bar 'Create Backup Job' and a close button. It contains a sidebar with 'Job Settings' (selected), 'Virtual Machines', 'Guest Processing', 'Job Schedule', and 'Email Notifications'. The main area is titled 'Specify the job name, description and retention policy'. It includes a 'Job name' input field, a 'Description' text area with the text 'Created by veeamlab\labuser07 at 3/2/2020 03:30 pm', and a 'Retention policy' section. The 'Retention policy' section has a 'Latest backups to keep' dropdown set to '7', a 'Restore points' dropdown, and a checkbox 'Keep certain full backups longer for archival purposes' with a 'Configure' link. At the bottom right of the dialog are 'Next' and 'Cancel' buttons.

Self-Service Backup Portal for Lab 07. User

Dashboard Jobs VMs Files Items

Job name: Status (All)

+ Create... Start Stop Retry Job

Name Type Status

Create Backup Job

Job Settings

Specify the job name, description and retention policy

Virtual Machines

Guest Processing

Job Schedule

Email Notifications

Job name:

Description: Created by veeamlab\labuser07 at 3/2/2020 03:30 pm

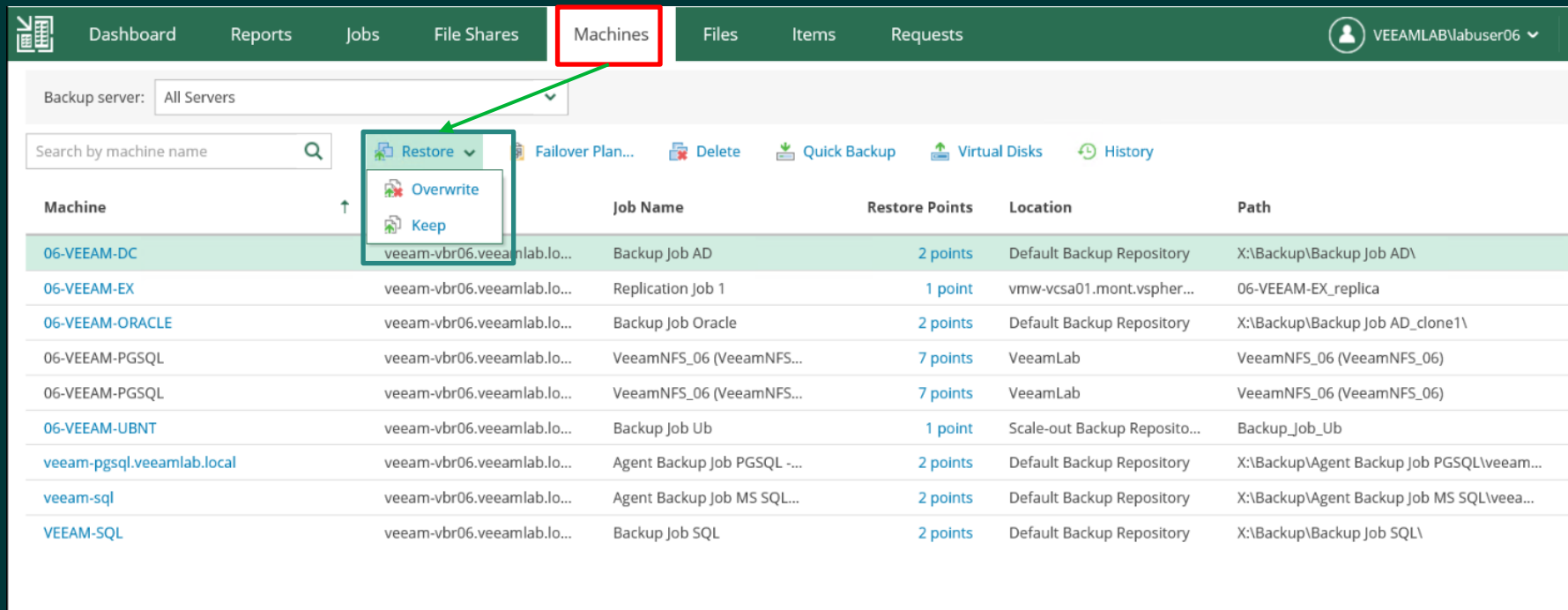
Retention policy

Latest backups to keep: 7 Restore points

☐ Keep certain full backups longer for archival purposes Configure

Next Cancel

Восстановление VM через EM



Backup server: All Servers

Search by machine name

Failover Plan... Delete Quick Backup Virtual Disks History

Machine	Job Name	Restore Points	Location	Path
06-VEEAM-DC	veeam-vbr06.veeamlab.io... Backup Job AD	2 points	Default Backup Repository	X:\Backup\Backup Job AD\
06-VEEAM-EX	veeam-vbr06.veeamlab.io... Replication Job 1	1 point	vmw-vcsa01.mont.vsphere...	06-VEEAM-EX_replica
06-VEEAM-ORACLE	veeam-vbr06.veeamlab.io... Backup Job Oracle	2 points	Default Backup Repository	X:\Backup\Backup Job AD_clone1\
06-VEEAM-PGSQL	veeam-vbr06.veeamlab.io... VeeamNFS_06 (VeeamNFS...	7 points	VeeamLab	VeeamNFS_06 (VeeamNFS_06)
06-VEEAM-PGSQL	veeam-vbr06.veeamlab.io... VeeamNFS_06 (VeeamNFS...	7 points	VeeamLab	VeeamNFS_06 (VeeamNFS_06)
06-VEEAM-UBNT	veeam-vbr06.veeamlab.io... Backup Job Ub	1 point	Scale-out Backup Reposito...	Backup_job_Ub
veeam-pgsql.veeamlab.local	veeam-vbr06.veeamlab.io... Agent Backup Job PGSQL -...	2 points	Default Backup Repository	X:\Backup\Agent Backup Job PGSQL\veeam...
veeam-sql	veeam-vbr06.veeamlab.io... Agent Backup Job MS SQL...	2 points	Default Backup Repository	X:\Backup\Agent Backup Job MS SQL\veea...
VEEAM-SQL	veeam-vbr06.veeamlab.io... Backup Job SQL	2 points	Default Backup Repository	X:\Backup\Backup Job SQL\



Хранение как сервис Veeam Cloud Connect

Правило 3-2-1-0

3

Копии



2

Носителя



1

Одна копия
off-site

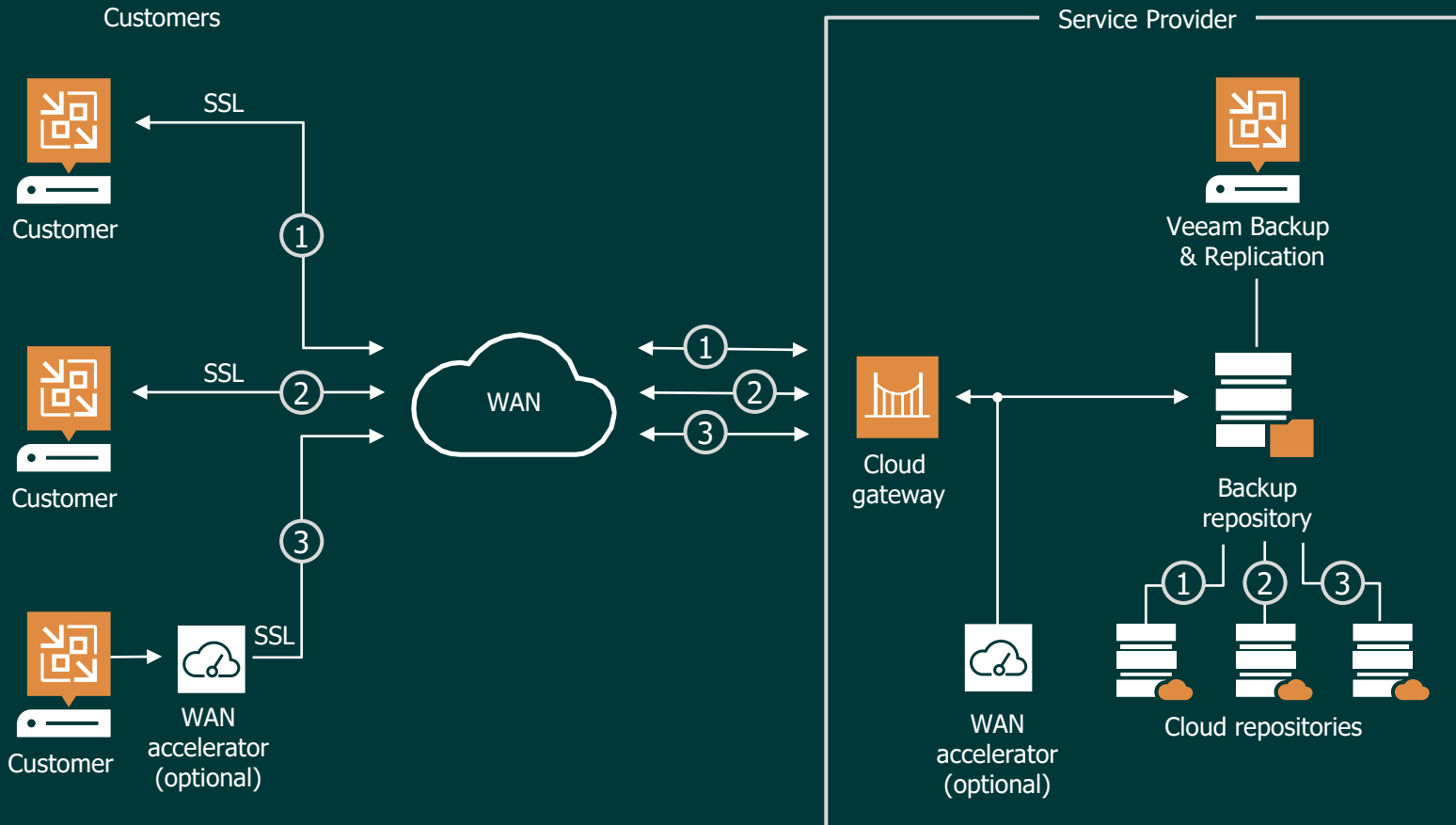


0

0 ошибок



Veeam Cloud Connect



Recover Full VMs, Files and Folders

The screenshot displays the Veeam Backup and Replication console interface. The top navigation bar includes 'HOME' and 'BACKUP' tabs. The 'BACKUP' tab is active, showing a 'Restore' section with icons for 'Instant VM Recovery', 'Entire VM', 'Virtual Disks', 'VM Files', 'Guest Files', and 'Application Items'. Below these are options for 'Restore to Cloud' (Amazon EC2, Microsoft Azure) and 'Export Backup from Disk'.

The main content area shows a list of backup jobs. The 'Cloud' section is expanded, showing a tree view of backup objects. The 'Agents' section is expanded, showing a list of backup agents. The 'SRV12 Workstation Backup' agent is selected, and a context menu is open, showing various restore options. The 'Restore guest files' option is highlighted, and a sub-menu is open, showing 'Microsoft Windows...' and 'Linux and other...'.

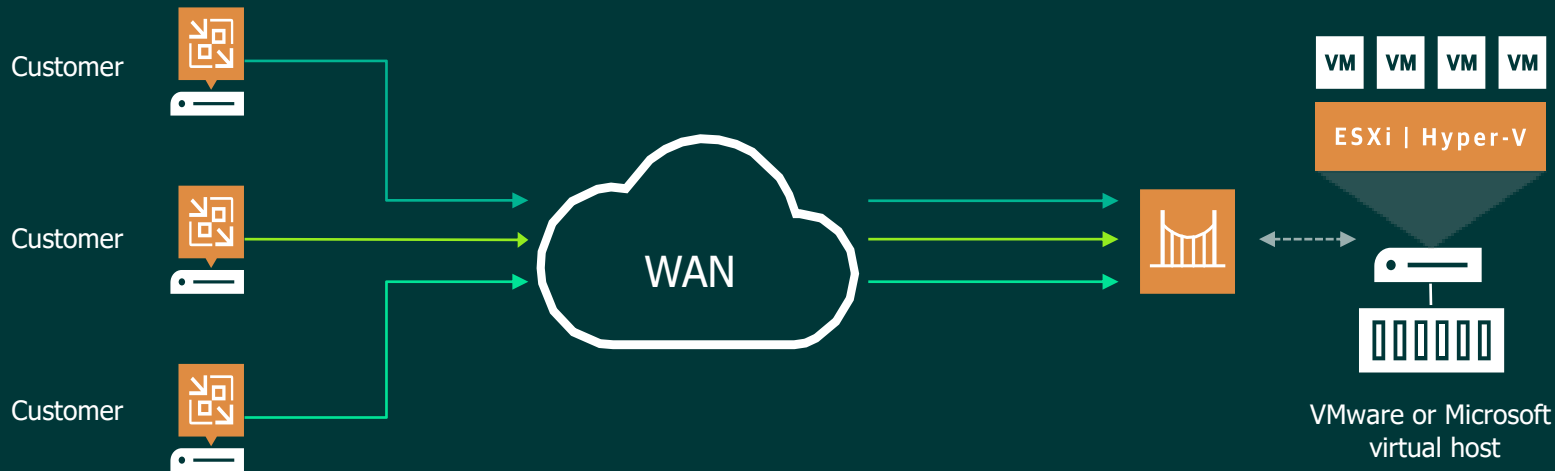
JOB NAME	CREATION TIME	RESTORE POINTS	REPOSITORY
ABC Company DB Backup	12/22/2018 10:00 PM		ABC Company
ABC Company Webservers Backup	12/22/2018 10:00 PM		ABC Company
apache02		5	
websrv02		5	
Agents			
SRV12 Workstation Backup		2	TechCompany
SRV13 Fileserver Backup		3	ABC Company



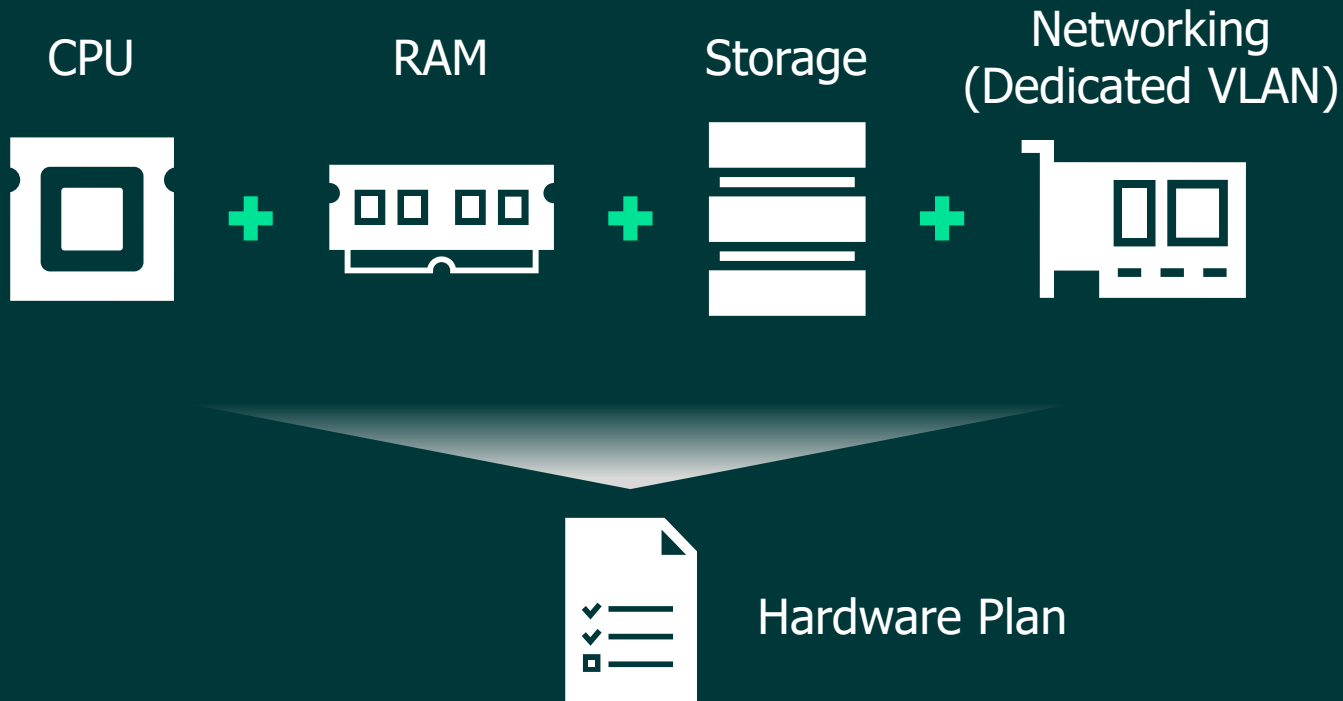
DRaaS

Veeam Cloud Connect

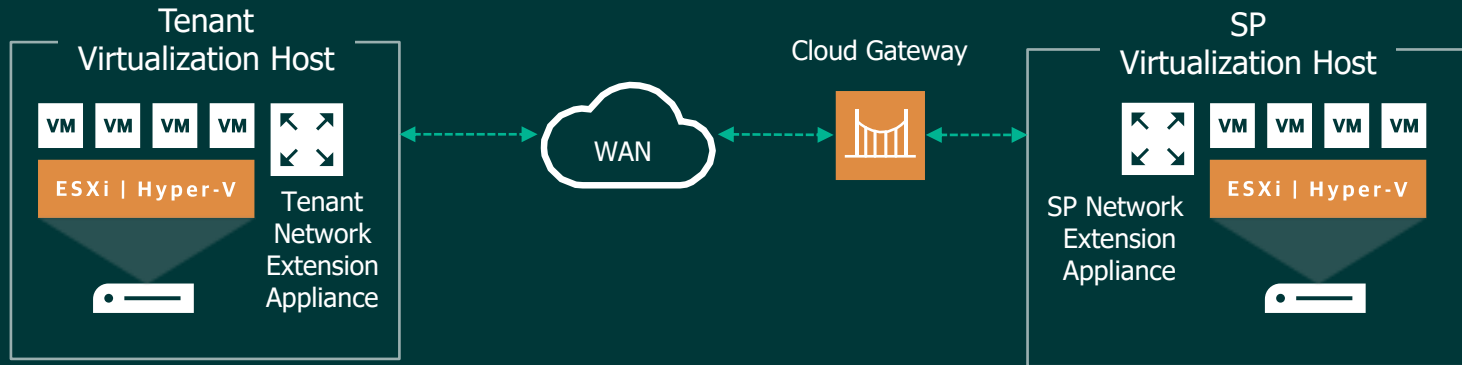
Veeam Cloud Connect Replication



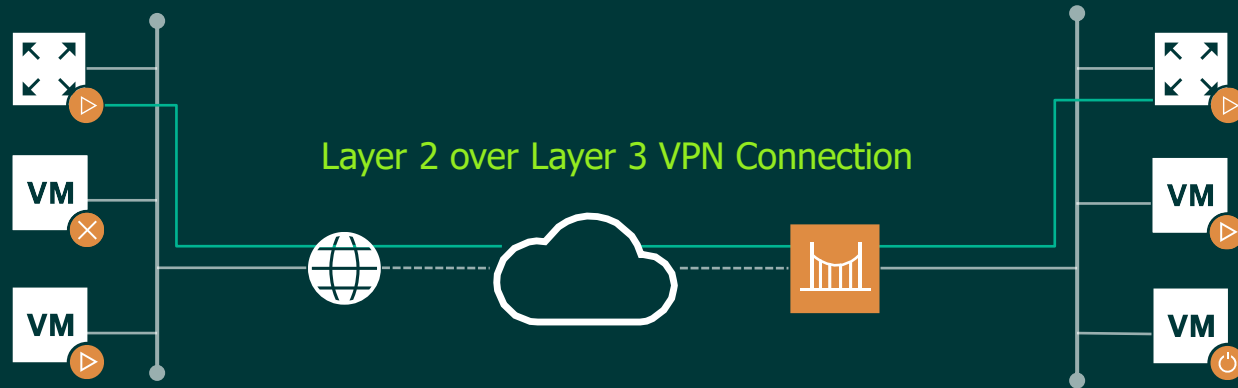
Veeam Cloud Connect Replication



Network Extension Appliance



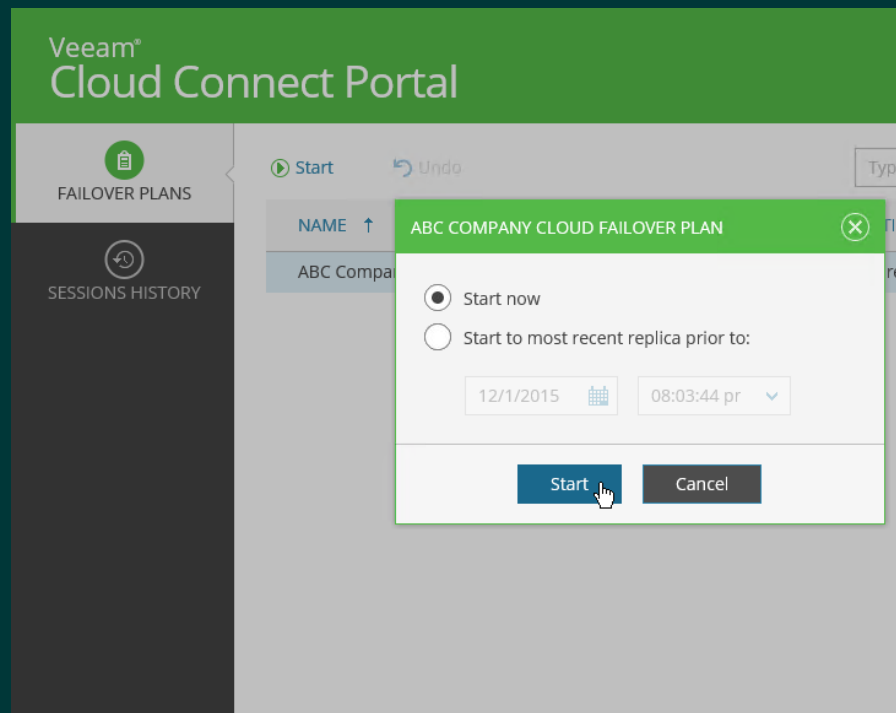
Partial Failover



Veeam Cloud Connect Portal

Это **отдельный портал**

Позволяет Заказчикам
запустить **Полный план**
восстановления в “Облако”





Управление данными как сервис Veeam Service Provider Console

Veeam Service Provider Console



Remote monitoring
and management



Customer onboarding
and billing



License and
usage reporting workflows



Multi-tenancy for
BaaS and DRaaS

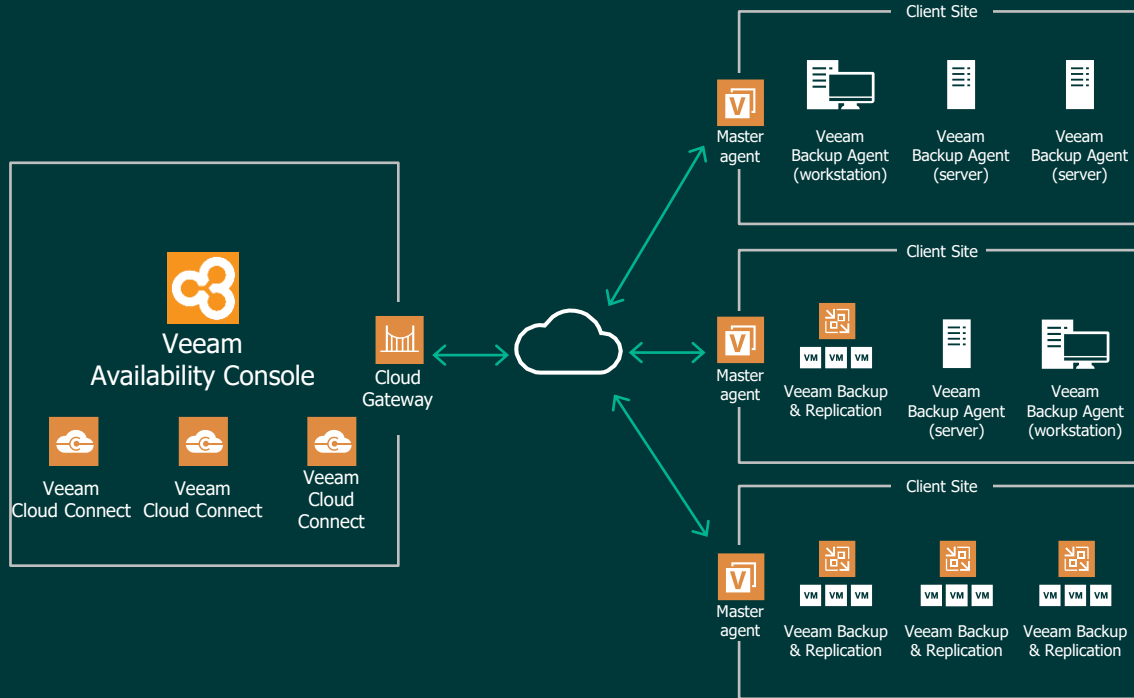


Automation
and APIs



Self-service portals for
resellers and customers

Veeam Service Provider Console



Support for ~50 Veeam Cloud Connect servers

Expanded capacity for number of VMs/servers/workstations under management

Expanded capacity for number of customers under management

Использование сервисов

Veeam Service Provider Console

Create Report

4 Items require approval

Cloud Services

Managed Services

Total workloads: 16 (consumed points 107)

Status: All

Company

Workload

Approve

Company

Type

Selected: 2 of 2

r1

Reseller

t2

Client

Detailed Usage

Units: All

Workload

Adjust Count

Reset All Changes

Status	Server	Product	Company	Workload	Count	New	Points
Waiting for ap...	dchEMxVO	[TBD] Veeam ONE	t2	[TBD] Monitored O...	7	0	14
Waiting for ap...	DCEMxVO	Veeam Backup & Replicatio...	t2	Server Agent	1	0	11
Waiting for ap...	DCEMxVO	Veeam Backup & Replicatio...	t2	File Share	6	0	60
Waiting for ap...	DCEMxVO	Veeam Backup & Replicatio...	t2	Virtual Machine	2	0	22

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Гранулярная отчетность

License Usage

veeam

ID 00000002

Reporting Interval:

01 January 2019 - 31 January 2019

License Information:

Product Veeam Availability Console
Company Partner-CloPI-RTM-all-2
Expiration date 13 March 2023
Support ID 01560423

Summary:

Agents	Number	Used Instances
Workstation Agents	2	2
Server Agents	3	9
	5	11

Usage Details:

Tenant	Server Agents	Workstation Agents	Used Instances	Note
C-Four	0	1	1	-
C-One	3	0	9	-
C-Two	0	1	1	-
	3	2	11	

Summary Usage report

Customer/Tenant Usage report

License Usage (Veeam Cloud Connect)

veeam

ID 00000003

Reporting Interval:

01 January 2019

License Information:

Product Veeam Availability Console
Company Partner-CloPI-RTM-all-2
Expiration date 13 March 2023
Support ID 01560423

Summary:

Type	Count	Instances
VM Backup	5	3.66
VM Replica	0	0.00
Workstation Backup	1	0.33
Server Backup	0	0.00
Total:	6	3.99

Overview by Veeam Cloud Connect Server:

	VM Backup	VM Replica	Workstation Backup	Server Backup	Instances
PTM1000	2	0	1	0	0.99
PTM1000	3	0	0	0	3.00
Total:	5	0	1	0	3.99

Thank you!

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