



# Veeam Data Platform:

Sessão Onboarding de Backup & Replicação

# Agenda

- Introdução
- Arquitetura & Componentes Principais
- Recursos Avançados & Componentes Opcionais
- Configuração Geral do Produto
- Conceitos de Jobs & Configuração
- Opções de Restore
- Segurança
- Dicas & Truques
- Recursos Adicionais

# Introdução

Capacidades, Plataformas Suportadas e Licenciamento

# Veeam Data Platform

## Secure Foundation

## Cyber Resilience

## Enterprise Resilience

Zero Trust  
Data Resilience

AI  
Guidance

Detect + Identify  
Threats

Security and  
Observability

GenAI  
Insights

Recovery Orchestration  
and Compliance

Threat  
Assessment

Proteção de  
Dados e  
Recuperação  
Verificada

Assistência sob  
demanda

AI-powered  
Malware  
Detection

IoC  
Tools  
Scanning

Integrações  
de  
Segurança

Análise,  
Descoberta  
e Relatórios

Veeam  
Threat  
Center

Tendências  
e Suporte à  
Decisão

Recuperação e  
Validação  
Orquestradas

Documentação  
de Auditoria

Avaliação  
Proativa de  
Ameaças

Foundation



Advanced



Premium



Veeam Backup & Replication



Veeam ONE



Veeam Recovery Orchestrator



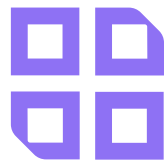
Coveware Recon Scanner



- Assinatura de resposta a incidentes Coveware com SLA de 15 minutos
- Garantia de Ransomware de até US\$ 5 milhões com o Gerente de Contas Técnicas Veeam
- Equipe SWAT 24/7/365 e Gerente de Conta de Suporte dedicado
- Onboarding, Design, Serviços de Implementação e Verificações Trimestrais de Avaliação de Segurança

# Plataformas Suportadas

Veeam Backup & Replication v13



## Virtual (Sem Agente)

- VMware vSphere 7.x – 9.0\*
- VMware Cloud Director 10.4 – 10.6
- Microsoft Windows Server Hyper-V 2016 – 2025
- Azure Local (anteriormente Azure Stack HCI)
  - Microsoft Hyper-V Server (versão gratuita) é suportada.
  - Instalações em Server Core também são suportadas utilizando **Veeam Agent for Windows**.
- Nutanix AOS 6.8.1.6 – 7.3
- oVirt KVM Plug-in
  - Oracle Linux Virtualization (OLVM) 4.5.4 ou superior
  - Red Hat Virtualization 4.4 SP1 (RHV) 4.4 SP1 ou superior
- Proxmox Virtual Environment 8.2 – 9.0
- Scale Computing HyperCore 9.4.32.218226 – 9.5.x

# Plataformas Suportadas

Veeam Backup & Replication v13

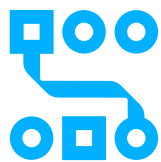


## Agents (Workloads Físicos ou Virtuais)

- Microsoft Windows Server 2016 – 2025  
Microsoft Windows 10 – 11 25H2
  - Instalações Server Core são suportadas
- Maioria das distribuições populares de **Linux**
- Mac OS 11 Big Sur – 26 Tahoe
- IBM AIX 7.1 – 7.3 TL3
- Oracle Solaris 10 1/13, 11.3 e 11.4
  - SPARC e Intel x86

# Plataformas Suportadas

Veeam Backup & Replication v13



## Unstructured data

- File Shares (SMB 1.x, 2.x, 3.x | NFS 3 e 4.1)
- Enterprise NAS systems:
  - NetApp FAS/AFF/ASA, FlexArray (V-Series), ONTAP Edge/Select/Cloud VSA (versions from 9.7 - 9.17.1)
  - Lenovo ThinkSystem DM/DG Series (versions 9.7 - 9.17.1)
  - Fujitsu ETERNUS HX/AX (versions 9.7 - 9.17.1)
  - Dell PowerScale (OneFS versions 8.1.2 - 9.11)
  - Nutanix Files Storage (versions 3.8.1.3 - 5.2)
- Object Storages:
  - S3 compatible object storage
  - Amazon S3 object storage
  - Microsoft Azure Blob storage
  - Azure Data Lake Gen2 storage (HNS)

# Plataformas Suportadas

Veeam Backup & Replication v13



## Databases — Plugins

- **Banco de Dados:**
- MS SQL 2014 SP3 – 2022
- Oracle 11gR2 – 23ai
- SAP HANA 2.0 (Linux e Power)
- MongoDB 7.0 – 8.0
- IBM db2 10.5, 11.1, 11.5, 12.1 em Linux, Power em AIX

### Outros:

- Microsoft EntraID
- Salesforce
- Microsoft Office 365
- Microsoft Azure
- Amazon Web Services
- Google Cloud

# Licenciamento

Dois **modelos** de licenciamento

## Socket

Modelo de licenciamento antigo (legado).

O Veeam Backup & Replication pode ser licenciado pelo número de Socket de CPU em hosts VMware vSphere ou Microsoft Hyper-V. Uma licença é exigida para cada socket ocupado na placa-mãe, conforme reportado pela API do Hypervisor.

A licença é necessária apenas para hosts de origem — hosts nos quais residem as VMs das quais você faz backup ou replica. Os hosts de destino (para Jobs de replicação e migração) não precisam ser licenciados.

## Instância (VUL)

Chamamos de Modelo de licenciamento à prova de futuro.

Instâncias são unidades (ou tokens) que você pode usar para proteger suas cargas de trabalho virtuais, físicas ou baseadas em nuvem.

Você deve obter uma licença com o número total de instâncias das cargas de trabalho que planeja proteger no Veeam Backup & Replication.

# Licenciamento

Dois tipos de licenciamento

## Perpetua

Licença permanente. O período de suporte e manutenção está incluído na licença e é especificado em meses ou anos.

A Licença Perpétua inclui contrato de Suporte à Produção ou Suporte Básico, e Manutenção para o primeiro ano.

O prazo máximo pré-pago para Suporte e Manutenção para uma Licença Perpétua é de 3 anos.

## Assinatura (Subscrição)

Licença que expira no final do prazo da assinatura.

A Licença de Assinatura **inclui contrato de Suporte à Produção e Manutenção** durante todo o período da licença.

O prazo da licença de assinatura é normalmente de 1 a 3 anos a partir da data de emissão da licença.

O prazo máximo pré-pago para uma Licença de Assinatura é de 5 anos.

Antes de começar...

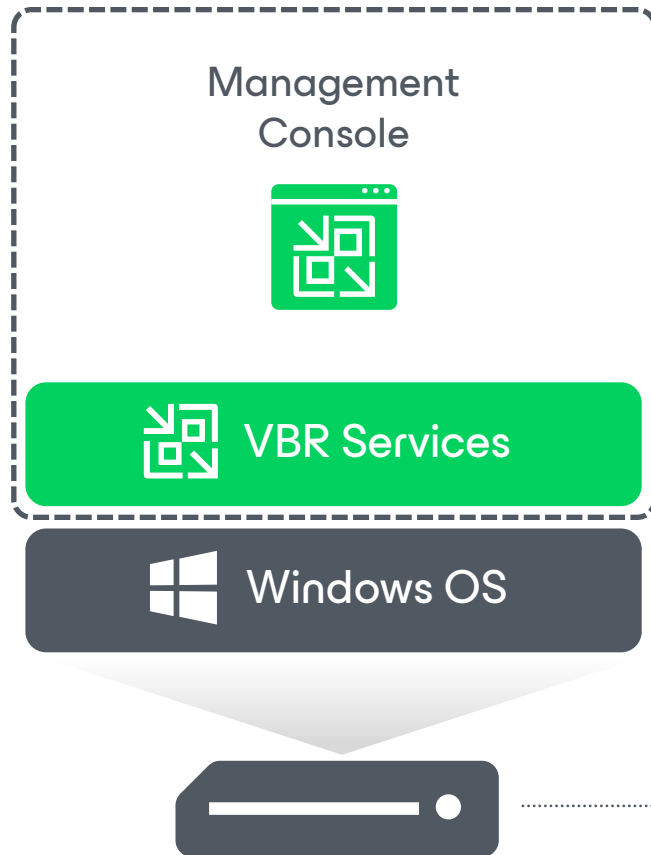
...Novidades na versão 13

# Veeam Software Appliance (VSA)

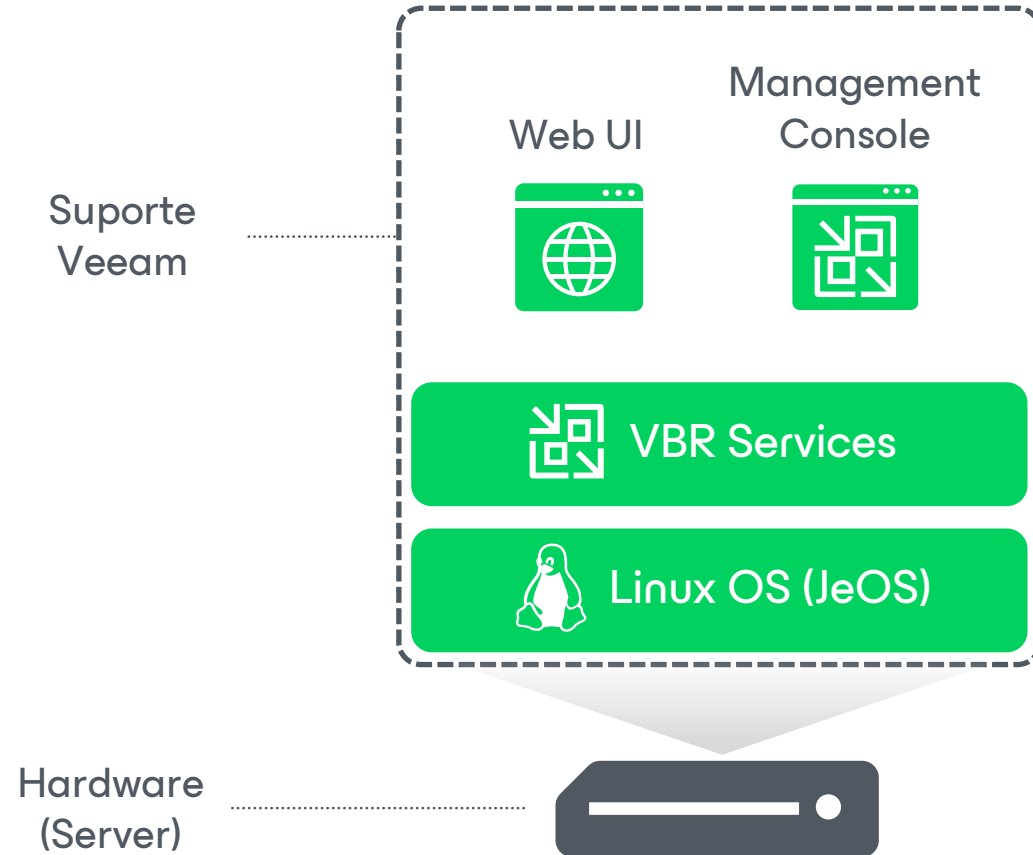


# Windows-based vs VSA: Visão Geral & Consoles

## Baseado em Windows (Windows-based)



## Veeam Software Appliance (Linux-based)



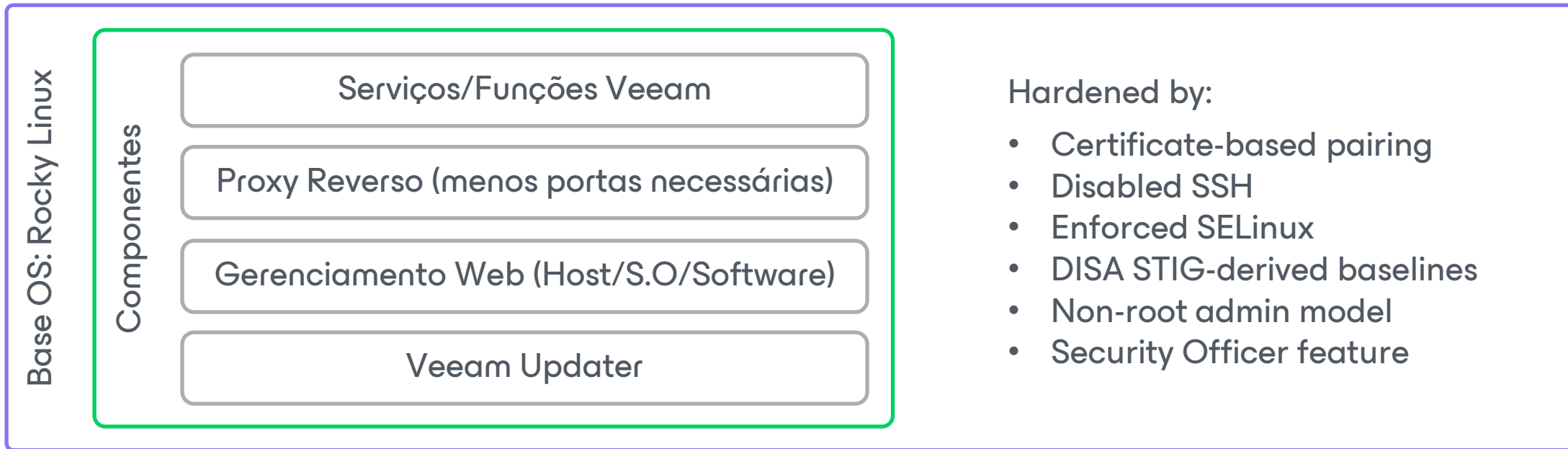
Suporte  
Veeam

Hardware  
(Server)

# Just enough OS (JeOS)

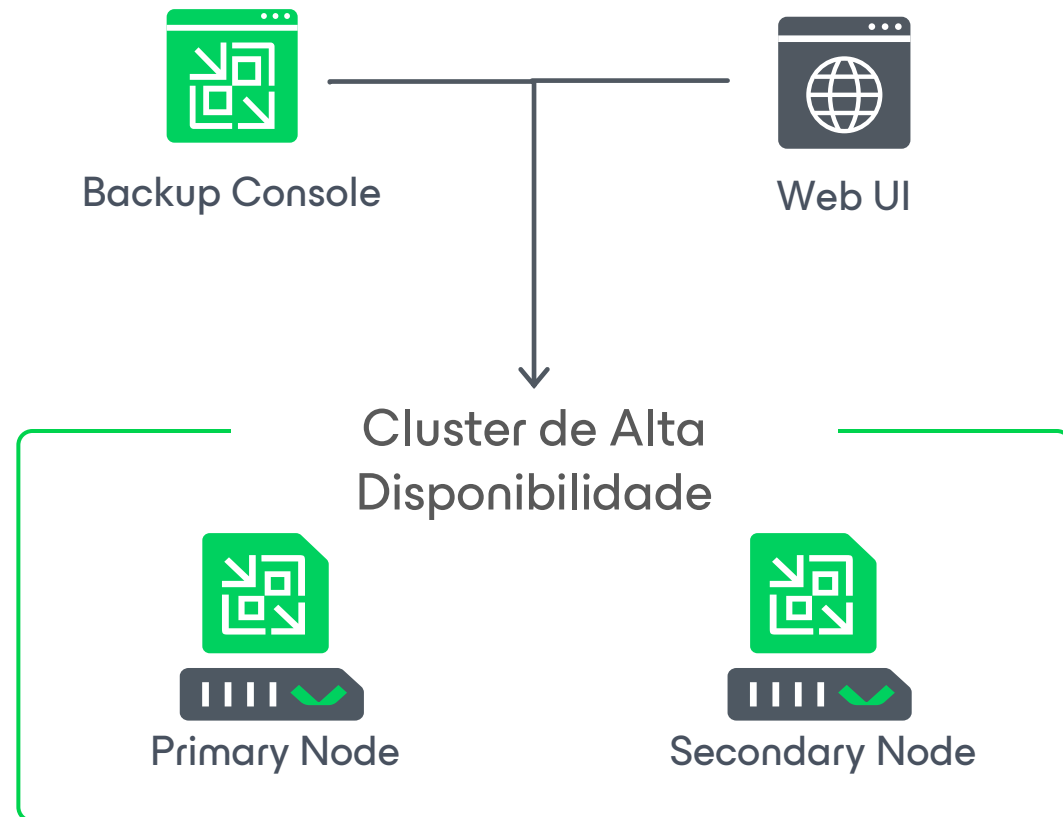
Veeam JeOS é uma pequena imagem de Appliance Linux, que inclui apenas o necessário para executar funções específicas de infraestrutura, suporte e gerenciamento dos softwares relacionados a Veeam.

Tanto as implantações do Veeam Software Appliance quanto do Veeam **Infrastructure** Appliance utilizam o JeOS como seu sistema operacional. (Os ISOs estão disponíveis para download na página na Veeam)



# Alta Disponibilidade (HA)

- Dois nodes (Primário e Secundário)
- Alta latência suportada
- Atualizações automáticas para ambos nodes
- Failover manual (Ativo-Passivo)
- Recuperação rápida de desastres sem Restauração de configuração
- **VSA Utilizando VUL Premium**



# Gerencie todas as atualizações do Veeam com “Veeam Updater”

Atualize os pacotes do JeOS + Veeam automaticamente

Proxy HTTP suportado se a conexão direta à internet for bloqueada ou se for necessário um controle de tráfego mais preciso

The screenshot shows the Veeam Host Management Console interface. At the top, there is a green header with the Veeam logo and the text "Veeam Host Management Console". On the right side of the header, the user "veeamadmin Host Admin" is logged in. The main content area is titled "Updates" and has three tabs: "Updates", "History", and "Settings". The "Updates" tab is active. Below the tabs, there is a notification: "Updates available to download" with a warning icon, and "Last checked: 1 minute ago" with a "Check for updates" button. Below this, there is a section "Select packages to install:" with three items: "Product updates (optional)", "Veeam Backup & Replication", and "Veeam Backup & Replication 13.0 version updates" (8.34 GB). To the right of the packages, there is a "Choose action:" section with two radio buttons: "Install updates now" (selected) and "Schedule updates installation". Below this, there is an information icon and a message: "It is recommended to backup your appliance configuration before starting the upgrade process. Host will be rebooted after the update if required." At the bottom right, there is a green button labeled "Install Updates Now". On the left side of the console, there is a sidebar with navigation links: Home, Overview, Host Settings, Network, Time, Security, Console Access, Users and Roles, Integration, Applications, and Updates (highlighted).

# Prós e Contras

## Windows-based

Baseado no Windows

Requer recursos adicionais se quiser trabalhar com Repositórios Hardened

Demora mais para instalar (já instalado se estivermos falando de clientes já existentes)

Atualização Manual, aplicação de patches

Não suporta Alta Disponibilidade

Gerenciado via Console de Gerenciamento independente

VUL ou Socket-based licensing; **Community edition**

## Veeam Software Appliance

Baseado em Linux

Nasce Hardened (Desde o primeiro deploy)

Mais fácil de instalar, boa parte automatizado

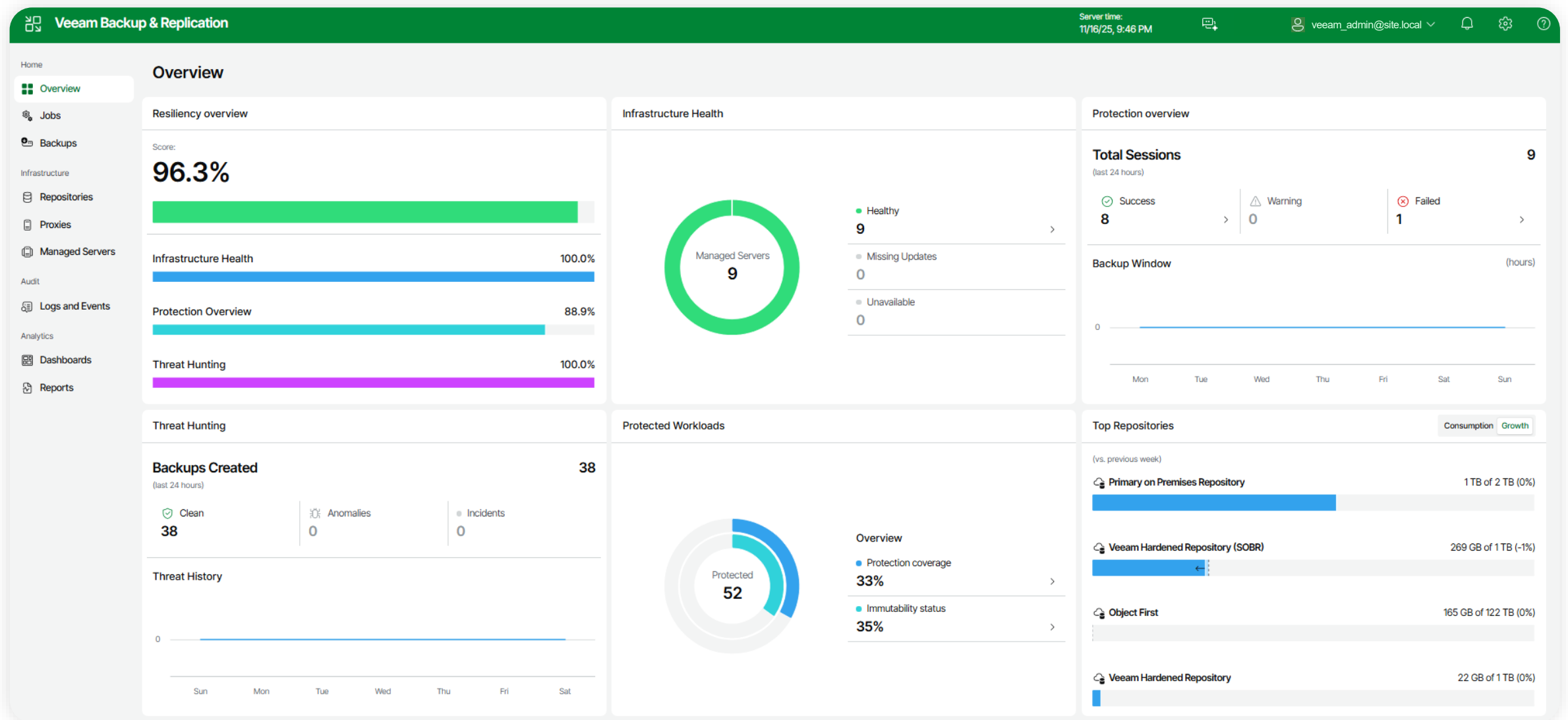
Atualizações automáticas do sistema operacional e dos serviços Veeam via o **Veeam Updater**

Suporta Alta Disponibilidade (Premium)

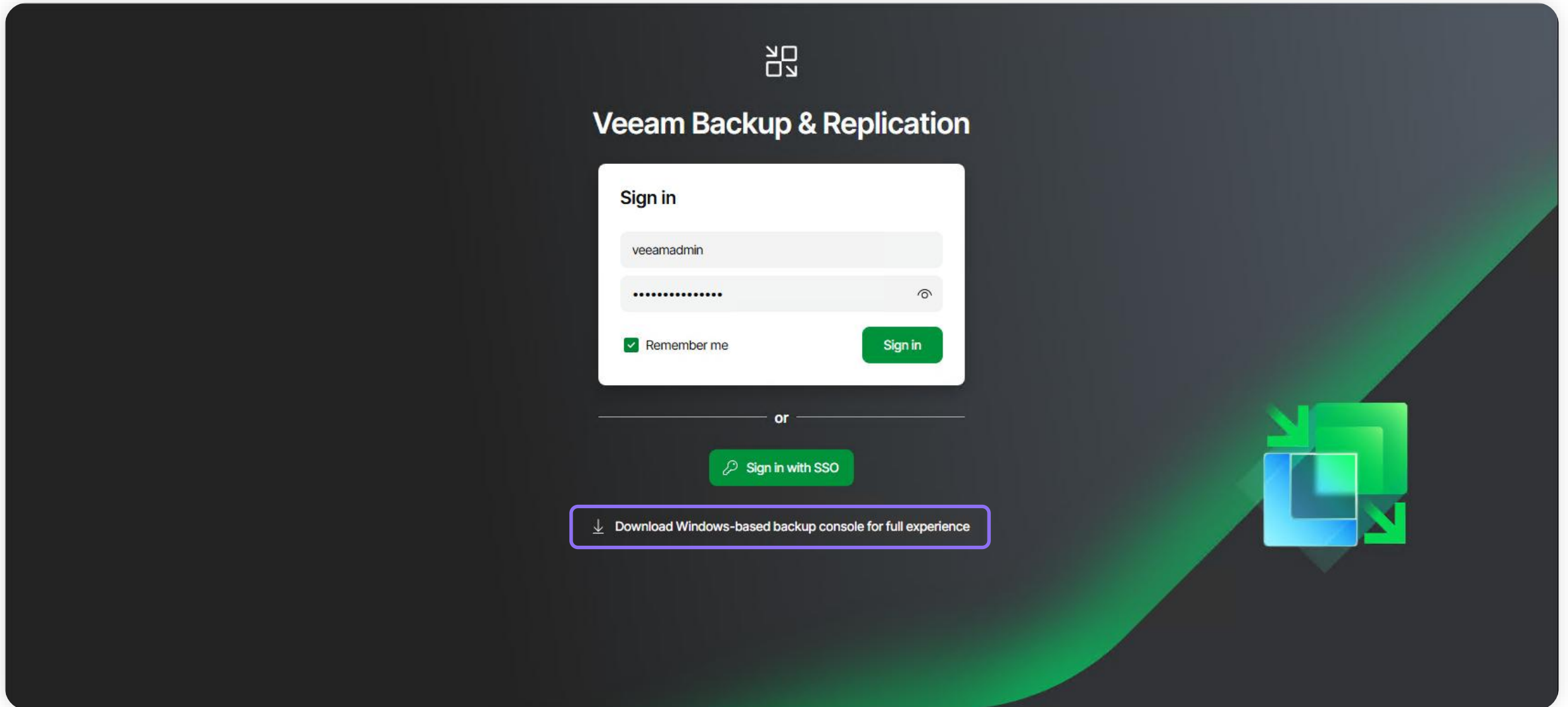
Web UI (*Ainda com algumas limitações*) + Console de Gerenciamento do Host

Somente VUL

# Nova Web UI do Veeam Backup & Replication



# Console de Gerenciamento (Windows-based)



# Console de Gerenciamento (Windows-based)

The screenshot displays the Veeam Backup and Replication console interface. The top navigation bar includes 'Home' and 'View' tabs, and the 'Veeam Intelligence' logo. Below the navigation bar, there are several functional groups: 'Primary Jobs' (Backup Job, Replication Job, CDP Policy), 'Secondary Jobs' (Tape Job, Backup Copy, Copy Job), 'Restore' (Restore, Failover Plan), 'Actions' (Import Backup, Export Backup), and 'Security & Compliance'. A tooltip for 'Security & Compliance' states: 'Security & Compliance Analyzer Launches the Security & Compliance Analyzer wizard.'

The main content area features a search bar and a table of jobs. The table has columns for Name, Type, Objects, Status, Last Run, Last Result, and Next Run. The jobs listed include various backup types such as Nutanix AHV Backup, Backup Copy, VMware Backup, Backup to Tape, and Hyper-V Replication.

Name	Type	Objects	Status	Last Run	Last Result	Next Run
AHV - Windows - Lin...	Nutanix AHV Backup	2	Stopped	3 days ago	Success	2/28/2026 10:0
Backup Copy Job - O...	Backup Copy	2	Stopped	13 hours ago	Success	<As new resto
Backup Job 9	VMware Backup	1	Stopped	13 hours ago	Success	2/26/2026 10:0
Backup to Tape Job	Backup to Tape	1	Stopped	17 days ago		3/8/2026 2:26 l
Backup to Tape Job 3	Backup to Tape	1	Idle	10 hours ago		2/26/2026 1:00
Entra ID Log Backup	Entra ID Log Backup	1	Stopped	11 days ago	Success	3/14/2026 10:0
Entra ID Tenant Back...	Entra ID Tenant Backup	1	Stopped	8 days ago	Success	<Not schedul
Entra ID Tenant Back...	Entra ID Tenant Backup...	1	Stopped	10 hours ago	Success	<As new resto
File to Tape Job	File to Tape Backup	1	Stopped	12 days ago	Failed	3/8/2026 3:00
GFS Backup Job	Backup to Tape	1	WaitingTape	2 days ago		2/23/2026 1:00
Hyper-V - Replicas	Hyper-V Replication	2	Stopped	17 days ago	Success	3/8/2026 10:00
Hyper-V - Windows a...	Hyper-V Backup	2	Stopped	4 days ago	Success	2/28/2026 10:0
NAS Backup	File Backup	1	Stopped	11 days ago	Failed	3/14/2026 10:0
Proxmox	Proxmox VE Backup	2	Stopped	11 days ago	Success	3/14/2026 10:0
SureBackup Job 2	SureBackup	2	Stopped	3 days ago	Failed	<Not schedul
SureBackup-VBR02-...	SureBackup	1	Stopped	14 days ago	Failed	<Not schedul
VBR Managed Agent...	Linux Agent Backup	1	Stopped	4 d	Fail	2/28/2026 10:0
VBR Managed Agent...	Unix Agent Policy	1	Enabled	14		
VBR Managed Agent...	Windows Agent Backup	1	Stopped	8		
VMware - Domain C	VMware Backup	1	Stopped	4		

A tooltip for the 'Veeam Backup & Replication Console' icon states: 'Tape media is required 1 sessions waiting...'. The bottom status bar shows '27 jobs', 'Logged in: usdemo.veeam.local\Daniel.Sironi', 'Connected to: vbr', and 'Build: 13.0.1.1071'.

# Veeam Software Appliance

**Nova** Interface Web de Gerenciamento do Host **Veeam Software Appliance**

**Veeam Host Management Console** veeamadmin  
Host Admin

Home

Overview

Host Settings

Network

Time

Security

Remote Access

**Users and Roles**

Integration

Backup Infrastructure

Updates

Support

Logs and Services

## Users and Roles

Username

+ Add

Username	Role	MFA	Description	Status	...
veeamadmin	Host Admin	Disabled	Veeam Host Management administrator.	Active	
veeamso	Security Officer	Enabled	Veeam Host Management security officer.	Active	

# Veeam Software Appliance

**Nova** Interface Web de Gerenciamento do Host **Veeam Software Appliance**

The screenshot shows the Veeam Host Management Console interface. The top navigation bar is green and contains the Veeam logo, the text "Veeam Host Management Console", and a user profile for "veeamadmin Host Admin". The left sidebar lists various management categories: Home, Overview, Host Settings (Network, Time), Security (Remote Access, Users and Roles), Integration (Backup Infrastructure, Updates), and Support (Logs and Services). The "Updates" section is active, showing a warning that updates are available. It includes a "Check for updates" button and a list of updates to install, such as "System and security updates (mandatory)" with a 246 MB size. On the right, there are radio buttons to "Install updates now" or "Schedule updates installation", a warning message about configuration backup and reboots, and a prominent "Install Updates Now" button.

**Veeam Host Management Console** veeamadmin Host Admin

## Updates

Updates History Settings

**⚠ Updates are available** Last checked: 34 minutes ago [Check for updates](#)

Select updates to install:

- System and security updates (mandatory) (will be installed automatically on 11/16/2025) 246 MB

**Choose action:**

- Install updates now
- Schedule updates installation

**i** We recommended to perform configuration backup before installing updates. The host will be rebooted automatically following the update, if required.

**Install Updates Now**

# Visão Geral dos Componentes



# Arquitetura & Componentes Principais

## Visão geral

### Ferramentas para Gerencia



Interface Web  
(Somente VSA)



Console de  
Gerenciamento

### Componentes de Infraestrutura



Backup Server



Backup Repository



Backup Proxy

E mais ...

# Instalação

(Windows-based)

# Arquitetura & Componentes Principais

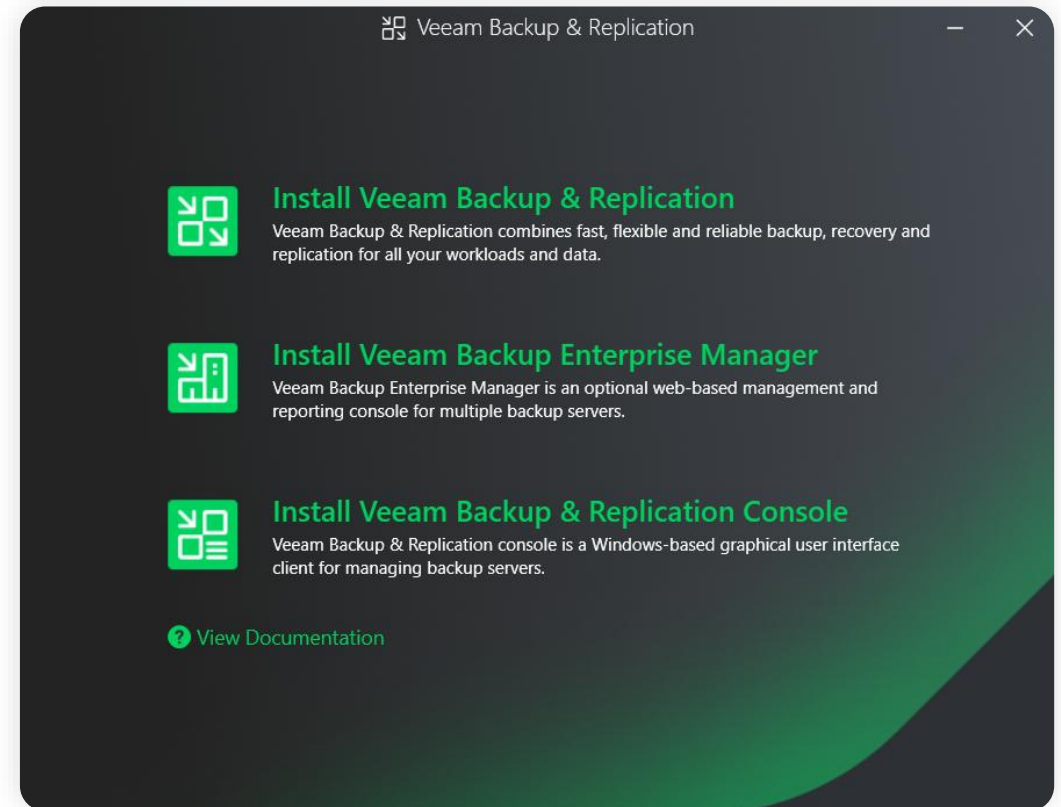
## Instalação

Acesse e faça download da versão mais recente através do seu Portal: <https://my.veeam.com/my-products>.

The screenshot displays the Veeam My Account portal interface. On the left is a promotional banner for a 'Global Launch virtual event' with the text 'Simplify Operations. Fortify Security. Accelerate Resilience.' and a 'RESERVE YOUR SPOT' button. The main content area is divided into two columns for login options: 'My Account' and 'Veeam Data Cloud'. The 'My Account' section lists features like support cases, license management, and product downloads, with a 'LOG IN' button. The 'Veeam Data Cloud' section lists backup services like Microsoft 365, Entra ID, Salesforce, and Vault, also with a 'LOG IN' button. On the right, the 'My subscription products' section shows 'Veeam Software Appliance' (Version 13) and 'Veeam Data Platform' (Version 13). Below these are three product cards: 'Veeam Recovery Orchestrator' (18.8 GB), 'Veeam ONE' (3.2 GB), and 'Veeam Backup & Replication' (16.6 GB), each with a 'Download' button. The 'Veeam Backup & Replication' card is highlighted with a green border.

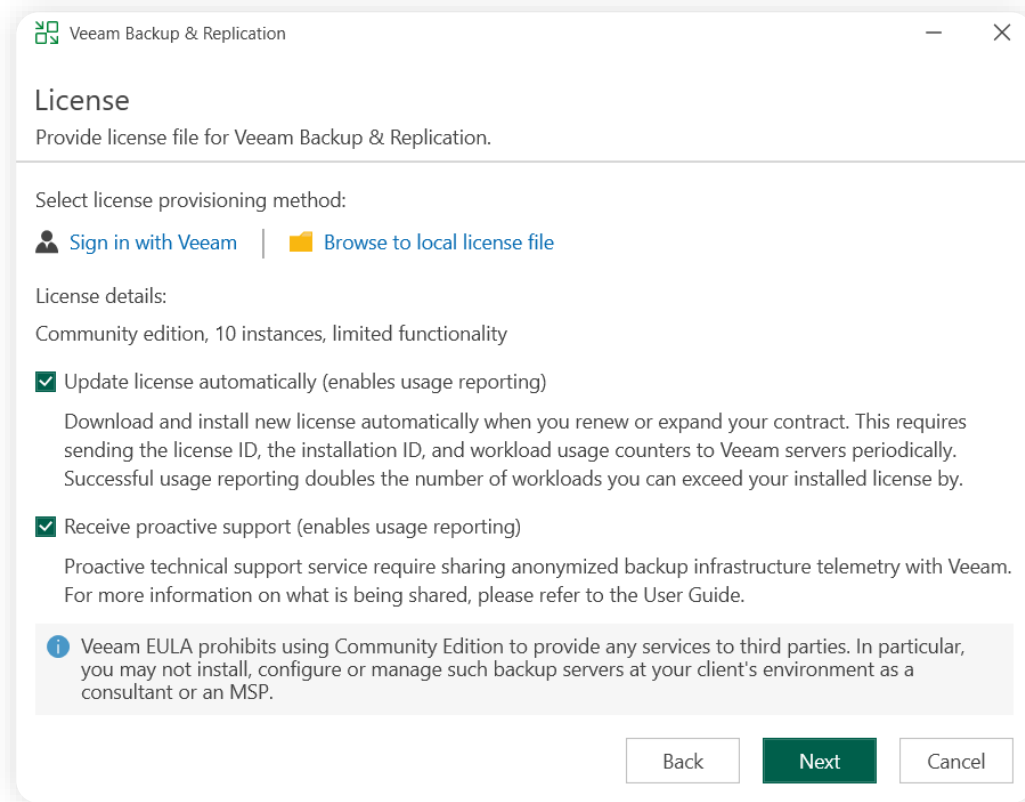
# Arquitetura & Componentes Principais

## Instalação



# Arquitetura & Componentes Principais

## Instalação





Veeam Backup & Replication

### License

Provide license file for Veeam Backup & Replication.


Select license provisioning method:

 [Sign in with Veeam](#) |  [Browse to local license file](#)

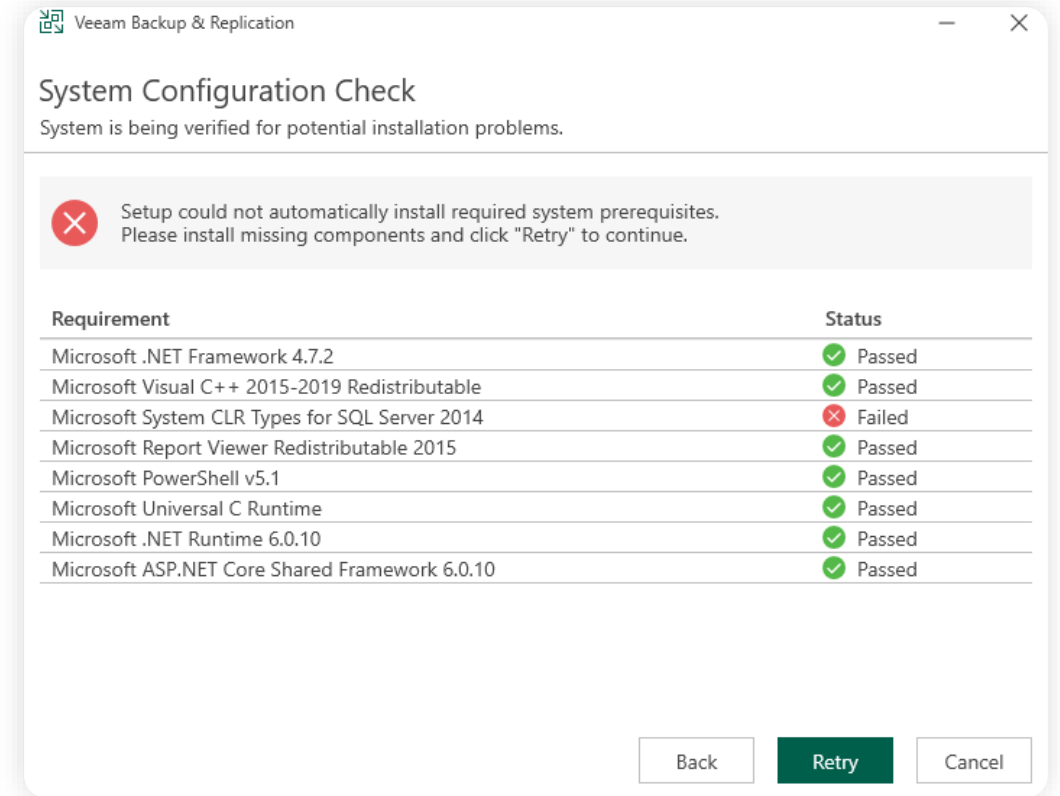
License details:

Community edition, 10 instances, limited functionality

- Update license automatically (enables usage reporting)  
Download and install new license automatically when you renew or expand your contract. This requires sending the license ID, the installation ID, and workload usage counters to Veeam servers periodically. Successful usage reporting doubles the number of workloads you can exceed your installed license by.
- Receive proactive support (enables usage reporting)  
Proactive technical support service require sharing anonymized backup infrastructure telemetry with Veeam. For more information on what is being shared, please refer to the User Guide.

 Veeam EULA prohibits using Community Edition to provide any services to third parties. In particular, you may not install, configure or manage such backup servers at your client's environment as a consultant or an MSP.


[Back](#) [Next](#) [Cancel](#)











Veeam Backup & Replication

### System Configuration Check

System is being verified for potential installation problems.

 Setup could not automatically install required system prerequisites. Please install missing components and click "Retry" to continue.

Requirement	Status
Microsoft .NET Framework 4.7.2	 Passed
Microsoft Visual C++ 2015-2019 Redistributable	 Passed
Microsoft System CLR Types for SQL Server 2014	 Failed
Microsoft Report Viewer Redistributable 2015	 Passed
Microsoft PowerShell v5.1	 Passed
Microsoft Universal C Runtime	 Passed
Microsoft .NET Runtime 6.0.10	 Passed
Microsoft ASP.NET Core Shared Framework 6.0.10	 Passed

[Back](#) [Retry](#) [Cancel](#)

# Arquitetura & Componentes Principais

## Instalação

Veeam Backup & Replication

### Ready to Install

Installation will begin with the following settings.

Installation folder:	C:\Program Files\Veeam\Backup and Replication
vPower cache folder:	C:\ProgramData\Veeam\Backup\IRCache
Guest catalog folder:	C:\VBRCatalog
Service account:	LOCAL SYSTEM
Database engine:	PostgreSQL
Database server:	DC-01:5432
Database name:	VeeamBackup
Catalog service port:	9393
Service port:	9392
Secure connections port:	9401
REST API service port:	9419
Check for product updates:	Automatically

Customize Settings

Back Install Cancel

Veeam Backup & Replication

### Database

Choose a database engine and an instance for Veeam Backup & Replication configuration data.

Use following database engine: PostgreSQL

Install new instance

Use existing instance (HOSTNAME:PORT)

DC-01:5432

Database name: VeeamBackup

Connect to PostgreSQL server using:

Windows authentication credentials of the backup service account

Native authentication with the following credentials:

Username: postgres

Password:

Back Next Cancel

# Arquitetura & Componentes Principais

## Recomendação

## Microsoft SQL Server -> PostgreSQL

Veeam Backup & Replication

### Database

Choose a database engine and an instance for Veeam Backup & Replication configuration data.

Use following database engine: PostgreSQL

Install new instance

Use existing instance (HOSTNAME:PORT)

DC-01:5432

Database name: VeeamBackup

Connect to PostgreSQL server using:

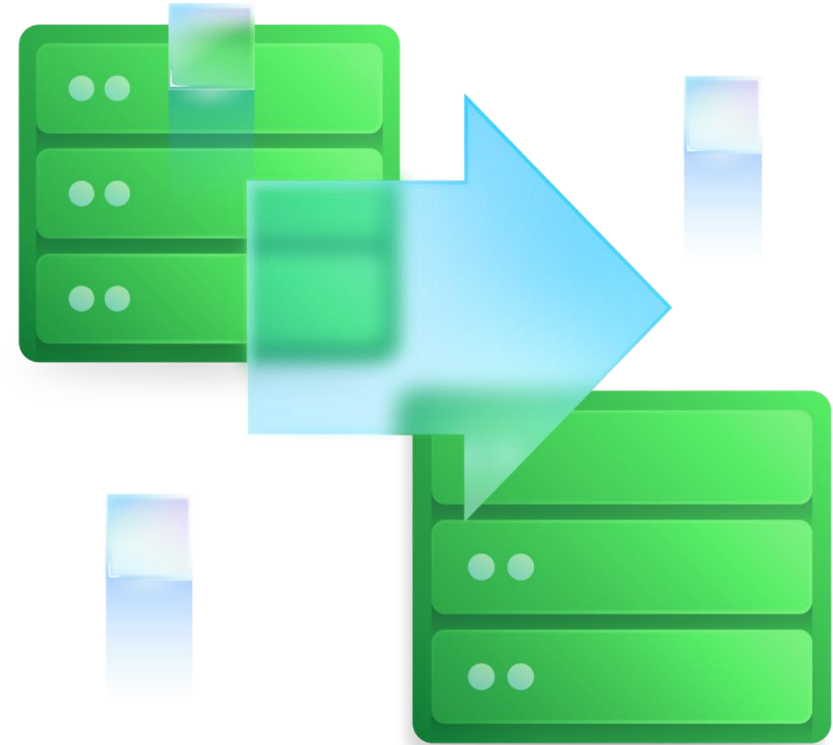
Windows authentication credentials of the backup service account

Native authentication with the following credentials:

Username: postgres

Password:

Back Next Cancel



# Instalação

## Veeam Software Appliance (VSA)

Linux-based

# Arquitetura & Componentes Principais

## Instalação

Acesse e faça download da versão mais recente através do seu Portal: <https://my.veeam.com/my-products>.

The image shows two screenshots from the Veeam My Account portal. The left screenshot is the login page, titled "Log In to Access Your Account". It features a "My Account" section with a list of services (Support Cases, License management, Product downloads, Renew and add more licenses) and a "Veeam Data Cloud" section with a list of services (Veeam Data Cloud for Microsoft 365, Veeam Data Cloud for Entra ID, Veeam Data Cloud for Salesforce, Veeam Data Cloud Vault and more). There are input fields for email and password, a "Keep me logged in" checkbox, and a "Reset My Password" link. A green "LOG IN" button is present. Below the button, there are links for "Don't have an account? Sign Up" and "Log in or register with your social account". The right screenshot is the "My subscription products" page. It features a "Veeam Software Appliance" card with a "New product" badge, version 13, and a "Download" button. Below it is a "Veeam Data Platform" card with a "New version" badge, version 13, and a "Download (18.8 GB)" button. At the bottom, there are three cards: "Veeam Recovery Orchestrator" (version 13, "Download (18.8 GB)"), "Veeam ONE" (version 13, "Download (3.2 GB)"), and "Veeam Backup & Replication" (version 13, "Download (16.6 GB)").

**Log In to Access Your Account**  
Access Veeam My Account or Veeam Data Cloud by selecting from the login options below:

**My Account**  
Log in to access and manage the following:

- Support Cases (incl. Veeam Data Cloud)
- License management
- Product downloads
- Renew and add more licenses

**Veeam Data Cloud**  
Log in to access your backup service:

- Veeam Data Cloud for Microsoft 365
- Veeam Data Cloud for Entra ID
- Veeam Data Cloud for Salesforce
- Veeam Data Cloud Vault and more

**My subscription products**

**Veeam Software Appliance**  
Version: 13  
Details  
Download

**Veeam Data Platform**  
Version: 13  
Details  
Download (18.8 GB)

**Veeam Recovery Orchestrator**  
Version: 13  
Details  
Download (18.8 GB)

**Veeam ONE**  
Version: 13  
Details  
Download (3.2 GB)

**Veeam Backup & Replication**  
Version: 13  
Details  
Download (16.6 GB)

# Veeam Software Appliance

## Instalação

Initial Configuration Wizard

> License Hostname Network Time Host Administrator Security Officer Summary	By pressing "Accept" button, you confirm that you have read and agree to the terms in each of the documents below: <ul style="list-style-type: none"><li>- [Veeam End User License Agreement (EULA)]</li><li>- [Veeam Licensing Policy]</li><li>- [License Agreements of 3rd party components]</li><li>- [License Agreements of required software]</li></ul> <p>For a web copy, go to <a href="http://vee.am/legal">vee.am/legal</a></p>
---	--

[Accept]

Initial Configuration Wizard

License > Hostname Network Time Host Administrator Security Officer Summary	Specify a desired hostname for this system.  Hostname: vbr-usa
---	--

[Prev] [Next]

# Veeam Software Appliance

## Instalação

Initial Configuration Wizard

License  
Hostname  
> Network  
Time  
Host Administrator  
Security Officer  
Summary

Specify a network configuration for this system.

Network adapters: [Enable ]

Name	MAC Address	Sta	[Disable ]
ens192	00:0C:29:31:11:6A	IP4	[DHCP ]
ens192	00:0C:29:31:11:6A	IP4	[Static ]
			[Advanced]

Assigned IP addresses:  
IP4: 10.0.0.249

[Prev] [Next]

Host Configuration Wizard

License  
Hostname  
Network  
> Time  
Host Administrator  
Security Officer  
Summary

Specify one or more NTP servers and the time zone.

Current time: Sat Nov 15 07:52:05 UTC 2025 [Change ]

Time zone: Etc/UTC [Add ]

Available NTP servers: [Edit ]

server 10.0.0.1	iburst	[Delete]
		[Sync ]

[Prev] [Next]

# Veeam Software Appliance

## Instalação

Startup Wizard

License	Create a host administrator account and configure multi-factor authentication.
Hostname	
Network	
Time	
> Host Administrator	
Security Officer	
Summary	

Administrator:

Username: veeamadmin

Password: \*\*\*\*\* [ ] Show password

[Prev] [Next]

Configure Multi-Factor Authentication (MFA)

Current time: Sat Nov 15 07:54:24 UTC 2025

Two-factor authentication is enabled on this system.

Step 1. Open your authenticator app.

Step 2. Enter the following code into the app:

TZ5U 4HF3 IJWA AXB4 KHUG PNG6 KQ [Show QR-code]

Step 3. Enter a one-time password provided by your app.

[Ok] [Cancel]

# Veeam Software Appliance

## Instalação

Create a Security Officer account for this system.

License	Security Officer credentials for first logon:
Hostname	Username: veeamso
Network	Password: [REDACTED]
Time	<input type="checkbox"/> Show password
Host Administrator	Security Officer approves sensitive actions of host admins (Zero Trust concept).
> Security Officer	This role is usually assigned to a member of an Information Security team.
Summary	<input type="checkbox"/> Skip setting up Security Officer

[Prev] [Next]

Initial Configuration Wizard

License	The system has been configured with the following settings:
Hostname	Hostname: vbr-osa
Network	Network configuration:
Time	Name: ens192
Host Administrator	MAC Address: 00:0C:29:31:11:6A
Security Officer	IPv4: 10.0.0.249
> Summary	IPv6: not assigned
	Time configuration:
	server 10.0.0.1 iburst
	Administrator:
	username: veeamadmin

[Prev] [Finish]

# Veeam Software Appliance

## Instalação

### Veeam Host Management

#### Product name

Veeam Backup & Replication

#### IPv4 address

10.0.0.249

#### Hostname

vbr-usa

#### Host management console

<https://vbr-usa:10443>

Certificate thumbprint: 6B8D63990B284C0DFAEDE912ED30C9128EF0C1471B2CC6DED69FD5E92305A8FD

#### Veeam Backup & Replication web UI

<https://vbr-usa:443>

Certificate thumbprint: 84C0AA0052CB11F7985CF336B6B8F9EB1045C984C69F9648F2348F36A161F425

# Banco de dados da Configuração

# Configuration Database (Banco de Dados da Configuração)

- Armazena dados sobre a infraestrutura de backup, configurações, jobs e sessões.
- Desde a v.12.0, o Instalador por padrão **recomenda** instalar o **PostgreSQL**. Mas você pode mudar para o Microsoft SQL.
- Pode ser **migrado** do MSSQL para o PostgreSQL e vice versa.
- Pode ser instalado **Localmente** (na mesma máquina com o servidor de backup) **ou Remotamente** em um servidor externo.
- **Configuration Backup** é única forma de salvar todas as configurações do seu Servidor VBR.
- Pode ser restaurado em outro servidor VBR como processo de Migração.

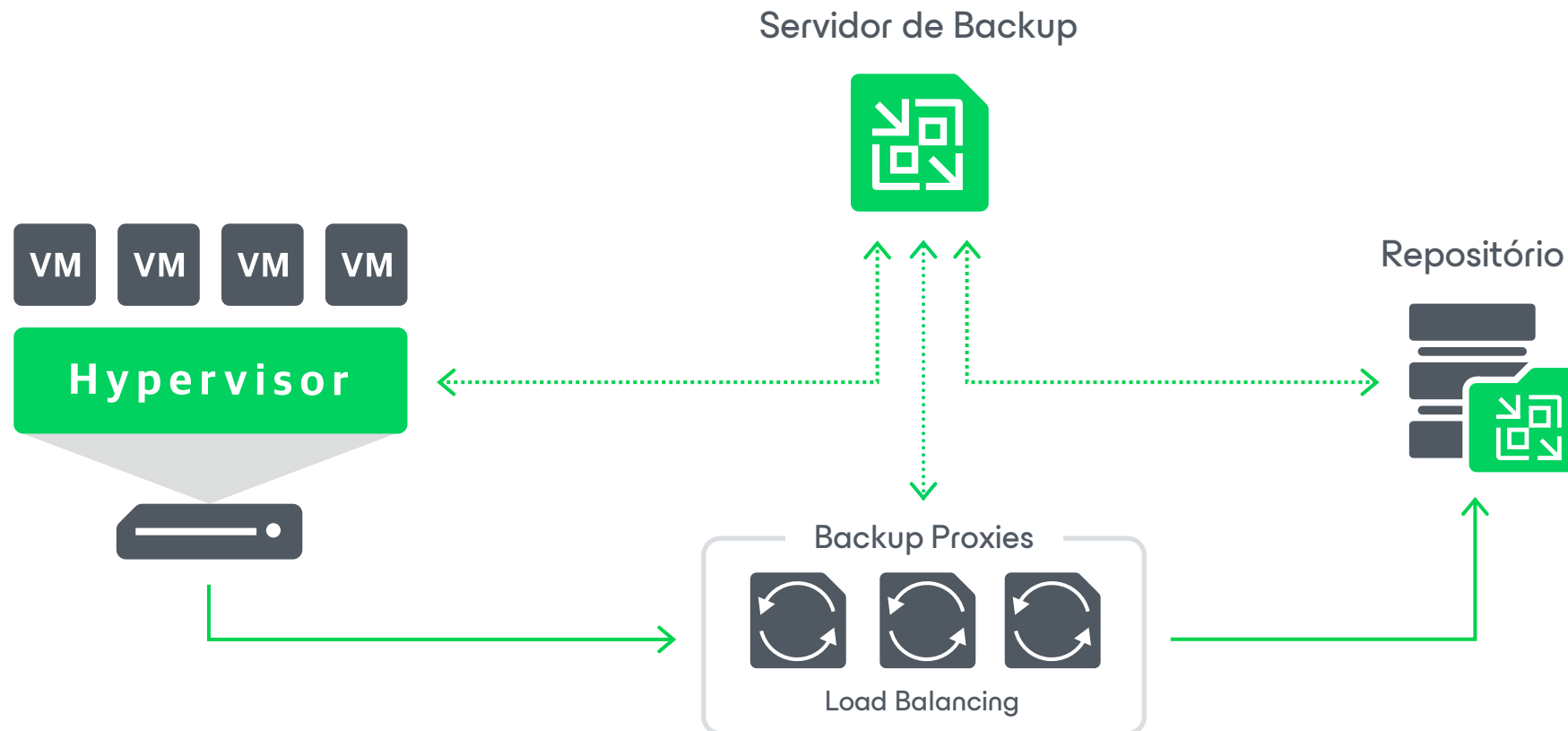


# Análise Detalhada dos Componentes

The background features a gradient from dark blue on the left to light green on the right. Overlaid on this gradient are several thin, white, wavy lines that create a sense of motion and depth, resembling a stylized wave or a digital signal pattern.

# Arquitetura & Componentes Principais

## Exemplo de Fluxo do Job de Backup



→ Tráfego de Backup  
↔ Tráfego de Gestão

# Backup Proxy

The background features a gradient from dark blue on the left to light green on the right. It is decorated with multiple thin, wavy lines that create a sense of motion and depth, resembling a stylized wave or a digital signal.

# Arquitetura & Componentes Principais

## Backup Proxy

### Tipos

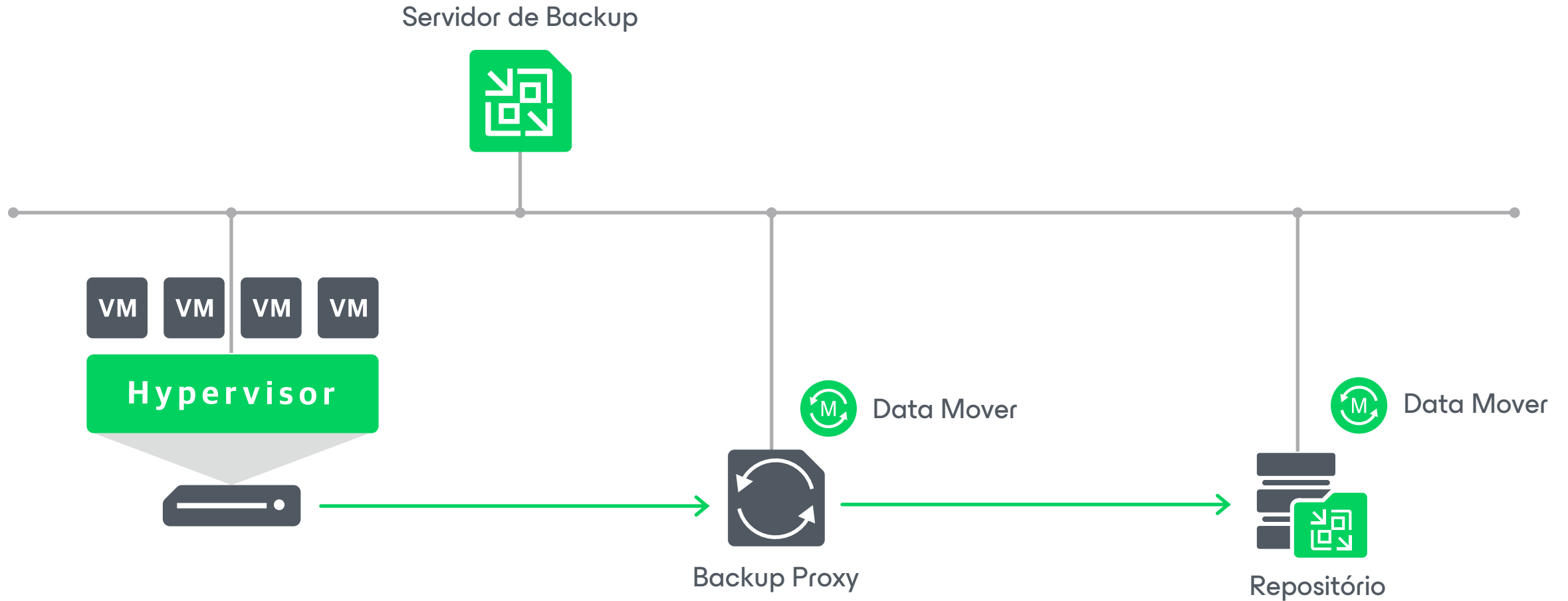
- VMware
- VMware CDP
- Hyper-V On-host
- Hyper-V Off-host
- Nutanix AHV (Worker)
- Red Hat Virtualization (Appliance)
- Proxmox (Worker)
- Scale Computing HyperCore (Worker)
- General Purpose (NAS, File shares, Physical Servers Off-host backup)

### Responsável por

- Acessa os dados das VMs no Storage de Produção
- Dedup + Compress
- Encrypting
- Copia dados de produção, criando os Arquivos de Backup e enviando para o Repositório de Backup (em casos de Jobs de Backup) ou enviando para outro proxy de backup (em casos de Jobs de Replicação)

# Arquitetura & Componentes Principais

## Backup Proxy



# Backup Proxy (VMware)

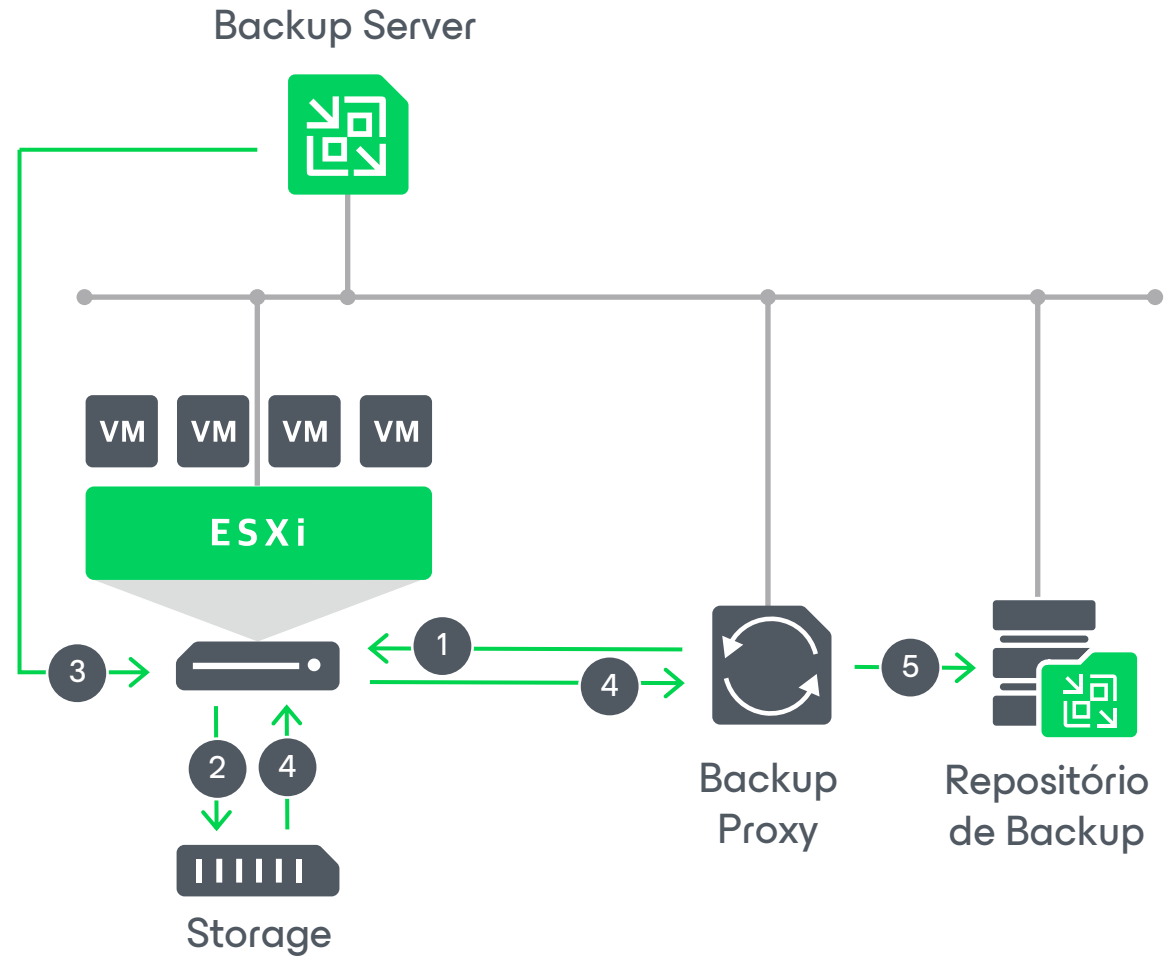
# Arquitetura & Componentes Principais

## Backup Proxy (VMware) Tipos de Transport Modes

### Network Mode

Nesse modo, os dados são recuperados pelo host ESXi via LAN usando o protocolo Network Block Device (NBD).

1. O Proxy envia uma solicitação para o host ESXi para localizar a VM no Datastore.
2. O host ESXi localiza a VM.
3. O VBR instrui o VMware vSphere a criar um snapshot.
4. O host ESXi copia blocos de dados da VM do armazenamento de origem e os envia para o proxy via LAN.
5. O Proxy envia os dados para o Repositório.





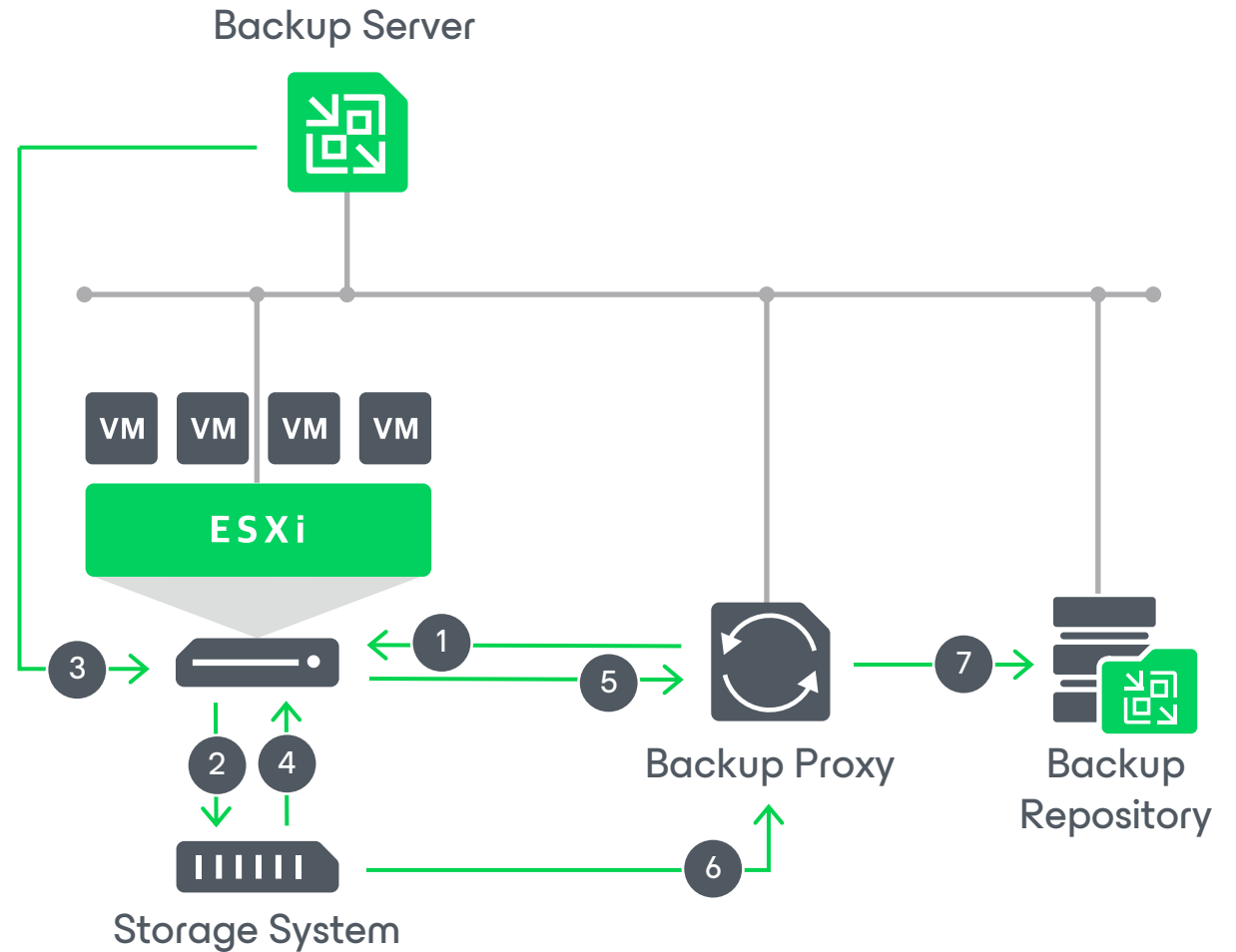
# Arquitetura & Componentes Principais

## Backup Proxy (VMware) Tipos de Transport Modes

### Direct Storage Access

Nesse modo, o VBR usa VMware VADP para transporte direto de dados de VM via SAN (FC, FCoE, iSCSI).

1. O Proxy solicita a localização da VM do ESXi.
2. O host ESXi localiza a VM.
3. O VBR aciona um snapshot da VM.
4. O host ESXi recupera metadados sobre o layout dos discos VM no armazenamento.
5. O host ESXi envia metadados para o Proxy.
6. O Proxy usa metadados para copiar blocos de dados da VM diretamente do armazenamento de origem.
7. O Proxy processa blocos de dados copiados e os envia para o alvo.



# Arquitetura & Componentes Principais

## Backup Proxy (VMware) Tipos de Transport Modes

Transport Mode

Backup proxy transport mode:

- Automatic selection**  
Data retrieval mode is selected automatically by analyzing backup proxy configuration and reachable VMFS and NFS datastores. Transport modes allowing for direct storage access will be used whenever possible.
- Direct storage access**  
Data is retrieved directly from shared storage, without impacting production hosts. For block storage, backup proxy server must be connected into SAN fabric via hardware or software HBA, and have VMFS volumes mounted.
- Virtual appliance**  
Data is retrieved directly from storage through hypervisor I/O stack by hot adding backed up virtual disks to a backup proxy VM. Datastores containing protected VMs must be connected to a host running backup proxy VM.
- Network**  
Data is retrieved from storage through hypervisor network stack using NBD protocol over host management interface. This mode has no special setup requirements. Recommended for 10 Gb Ethernet or faster.

Options

- Failover to network mode if primary mode fails, or is unavailable
- Enable host to proxy traffic encryption in Network mode (NBDSSL)

OK Cancel

Na duvida ...

Automatic Selection

... Resolve

# Backup Proxy (Hyper-V)

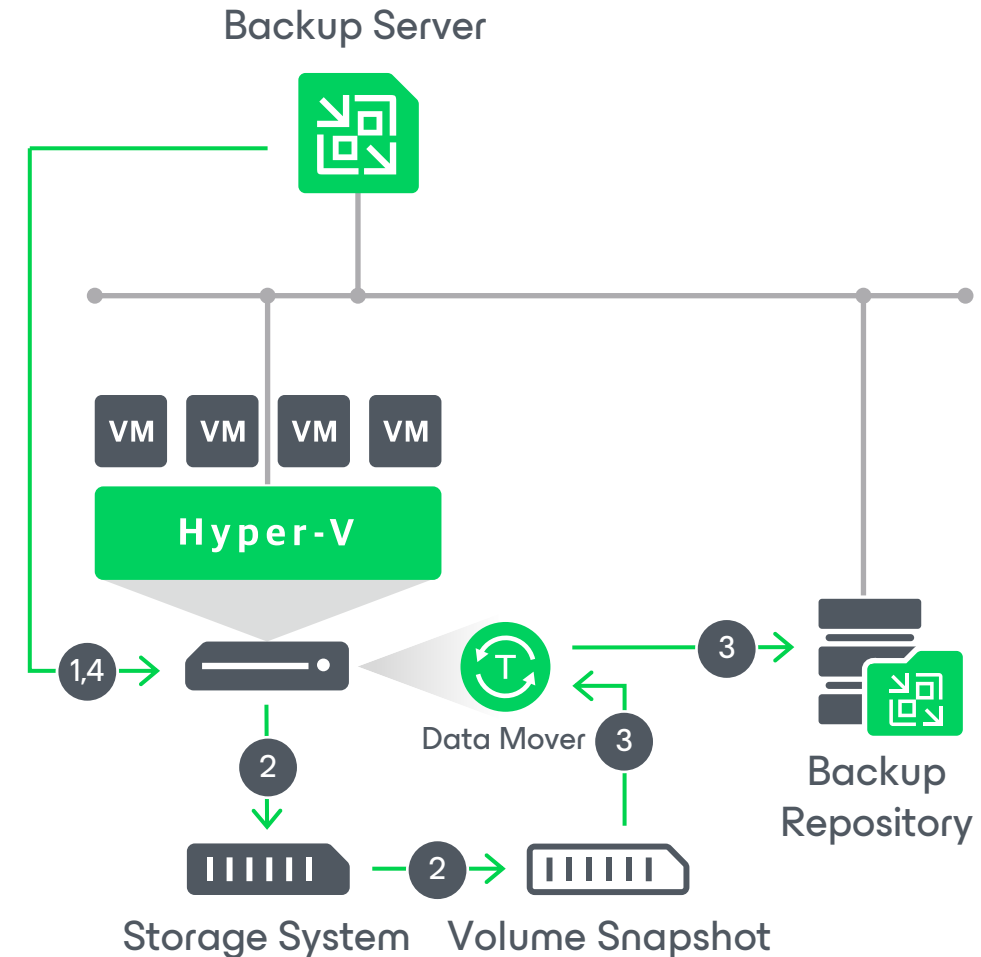
# Arquitetura & Componentes Principais

## Backup Proxy (Hyper-V) Tipos de Backup Modes

### On-Host

O processamento dos dados de backup ocorre no node físico do Cluster de Hyper-V que hospeda as Máquinas Virtuais, utilizando snapshots por meio do serviço de VSS.

1. O VBR consulta detalhes do Host, da VM e virtualização no Microsoft Hyper-V.
2. O VBR instrui o VSS do Hyper-V criar uma cópia da VM em um ponto no tempo, usando um snapshot de volume ou checkpoint da VM.
3. O Serviço de Transporte do Veeam lê os dados do snapshot da VM (*checkpoint*) e os transfere para o repositório de backup.
4. Após a conclusão da transferência de dados, o VBR solicita ao VSS do Hyper-V VSS iniciar as operações de limpeza.



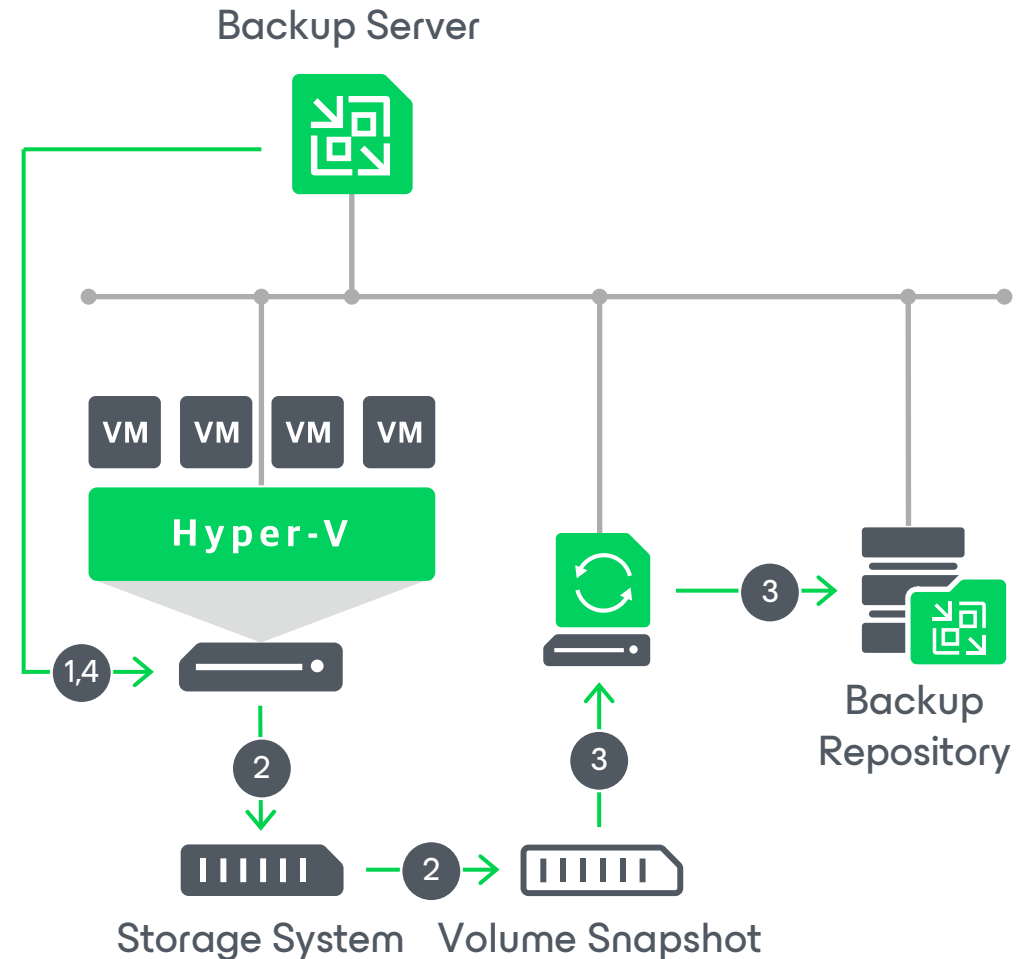
# Arquitetura & Componentes Principais

## Backup Proxy (Hyper-V) Tipos de Backup Modes

### Off-Host

O processamento dos dados de backups é delegado a um nó Hyper-V separado, não participante do cluster, utilizando snapshots através do serviço semelhante de VSS porem de hardware oferecido pelo fornecedor de armazenamento SAN.

1. O VBR consulta detalhes do Host, da VM e virtualização no Microsoft Hyper-V.
2. O VBR instrui o VSS do Hyper-V criar uma cópia da VM em um ponto no tempo, usando um snapshot de volume ou checkpoint da VM.
3. Veeam Off-Proxy Host (Hyper-V) lê os dados do snapshot da VM (checkpoint) e os transfere para o repositório de backup.
4. Após a conclusão da transferência de dados, o VBR solicita ao VSS do Hyper-V VSS iniciar as operações de limpeza.



# Outros métodos de Backup

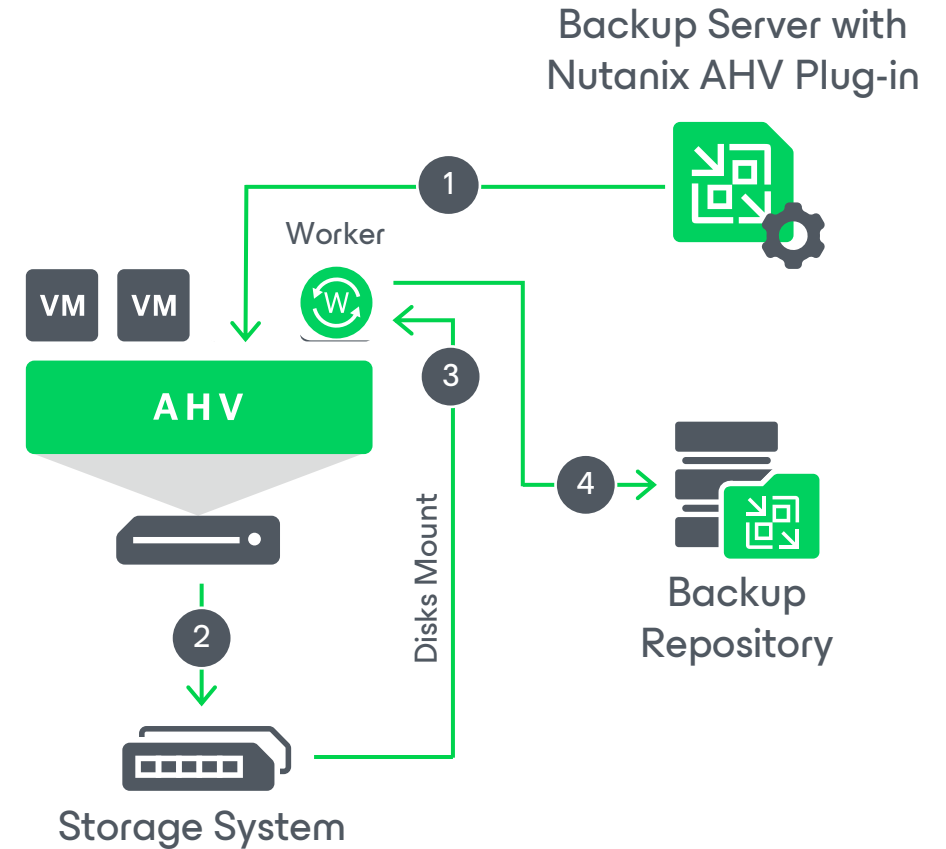
The background features a gradient from dark blue on the left to light green on the right. Overlaid on this are several thin, white, wavy lines that create a sense of motion and depth, resembling a stylized wave or a digital signal.

# Arquitetura & Componentes Principais

## Nutanix AHV

O Veeam Backup para Nutanix AHV usa as capacidades nativas do Nutanix AHV para criar backups image-level e não instala software ou agente dentro das VMs para recuperar dados.

1. Usando REST API da Nutanix, o Veeam se conecta ao cluster AHV da Nutanix
2. O Veeam cria snapshots para todas as VMs processadas ou domínios de proteção. Depois, estabelece um grupo de volumes no cluster AHV da Nutanix.
3. O Veeam implanta um **Worker**, montando discos das VM no nele mesmo via iSCSI.
4. O **Worker** recupera os dados da VM em block-level, aplicando compressão e dedup, e transmite os dados para o repositório de backup.

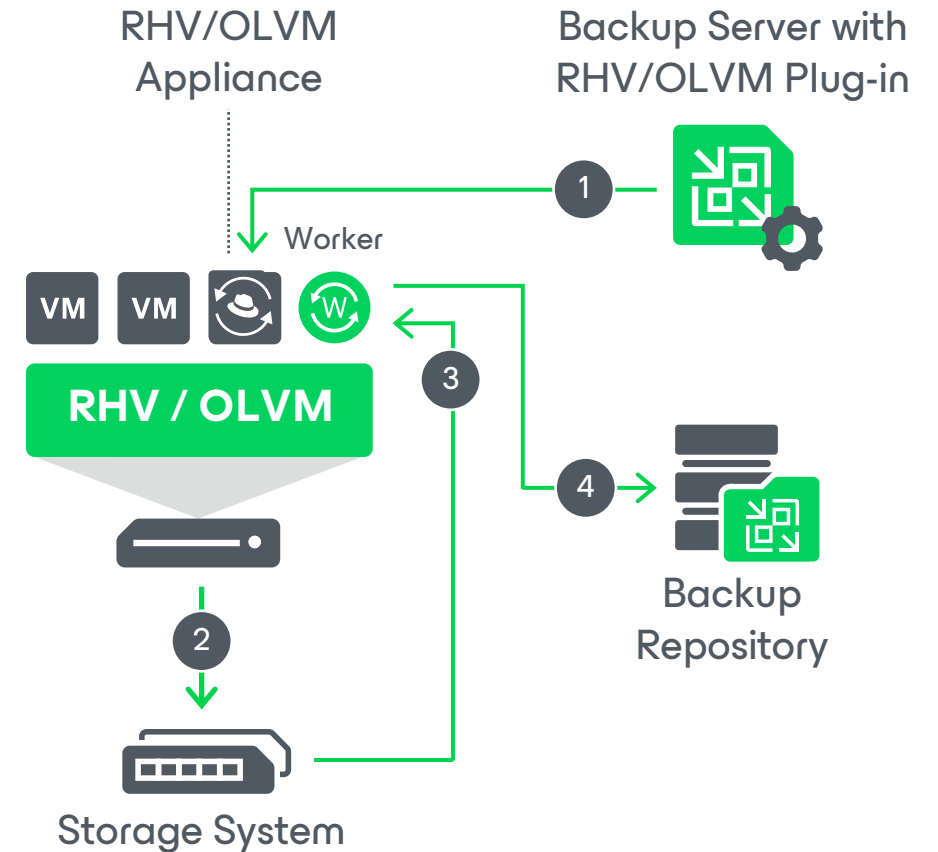


# Arquitetura & Componentes Principais

## Red Hat Virtualization & Oracle Linux Virtualization Manager (oVirt)

O Veeam Backup para RHV/OLVM usa recursos nativos do oVirt para criar backups image-level e não instala software ou agente dentro das VMs para recuperar dados.

1. O VBR inicia um Job de backup, transmitindo os dados da sessão para o **Appliance de Backup**.
2. O Appliance de Backup se conecta com o gerenciador de virtualização via REST API, gera snapshots das VMs designadas. Em seguida, estabelece uma sessão de transferência de imagem, fornecendo a URL correspondente.
3. O Appliance de Backup trabalha como um **Worker**, utilizando a URL fornecida para recuperar os dados da VM.
4. O Worker aplica compressão e dedup aos dados da VM antes de transmiti-los para o repositório de backup designado.

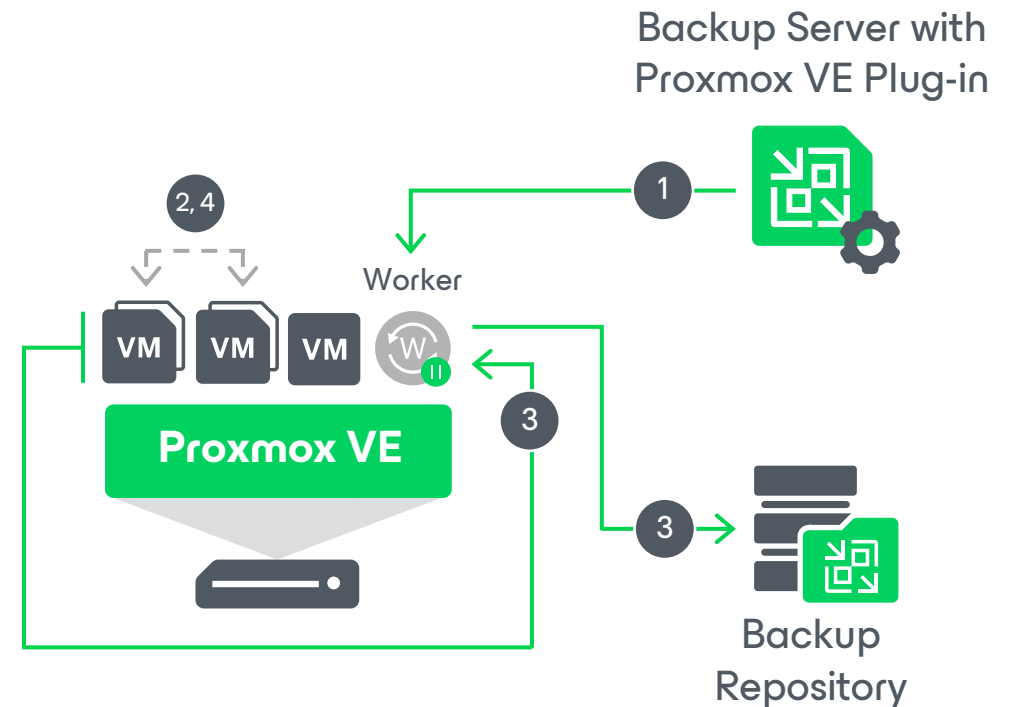


# Arquitetura & Componentes Principais

## Proxmox VE

O Veeam Backup para Proxmox VE usa recursos nativos para criar backups image-level e não instala software ou agente dentro das VMs para recuperar dados.

1. O VBR inicia um **Worker** no host onde a VM está localizada. Se nenhum for implantado neste host, o Veeam Backup for Proxmox VE usa um Worker de outro host conectado.
2. O Worker conecta-se ao servidor Proxmox VE e cria um snapshot copy-on-write da VM processada.
3. O Worker lê dados dos discos da VM, compara com o snapshot criado na etapa 2, exclui as alterações e transfere os dados resultantes para o repositório alvo no formato nativo Veeam.
4. Remove o snapshot criado e suspende o Worker quando a sessão de backup termina.

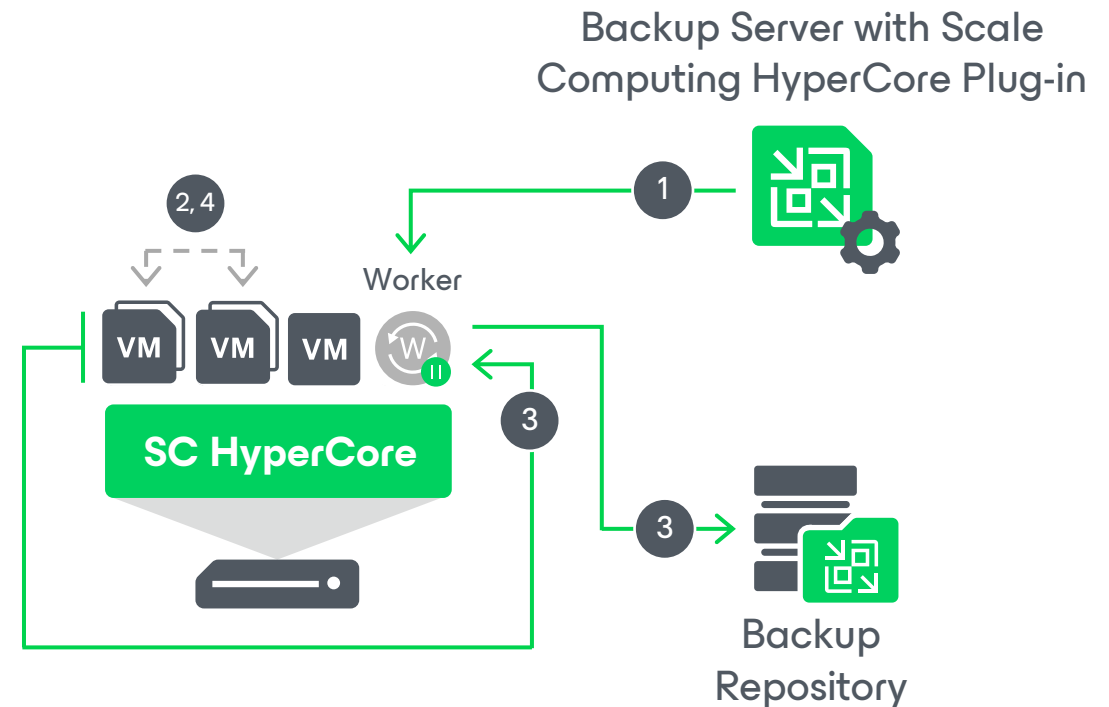


# Arquitetura & Componentes Principais

## Scale Computing HyperCore

Veeam Backup for Scale Computing HyperCore usa recursos nativos para criar backups image-level e não instala software ou agente dentro das VMs para recuperar dados.

1. OVBR inicia um Worker no nó HyperCore hospedando a VM. Se nenhum estiver disponível, o Veeam Plug-in inicia um Worker em outro nó HyperCore conectado à infraestrutura de backup.
2. Conecta-se ao cluster HyperCore e cria um snapshot da VM.
3. O Worker lê os dados do disco da VM, compara com o snapshot da etapa 2, filtra os blocos não alterados e transfere os dados resultantes para o repositório de backup no formato nativo do Veeam.
4. Exclui o snapshot e suspende o trabalhador após o backup ser concluído.



# Como instalar e configurar um Backup Proxy?

# Arquitetura & Componentes Principais

Como adicionar e configurar um Proxy? (Ex. VMware)

Veeam Backup and Replication

Home Backup Proxy

Add Proxy Proxy Proxy Remove Proxy Upgrade Proxy Upgrade

Manage Proxy Upgrade

Backup Infrastructure

Backup Proxies

Microsoft Azure

- Helper Appliance Templates
- Backup Repositories
- External Repositories
- Scale-out Repositories
- WAN Accelerators
- Service Providers

SureBackup

- Application Groups
- v

Managed Servers

- VMware vSphere
- Microsoft Windows
- Linux

Home

Inventory

Backup Infrastructure

Type in an object name to search for

Name	Type	Host	Description
Backup Proxy	Agent	vbrv13	Created by Veeam Backup & Replication
VMware Backup Proxy	VMware	vbrv13	Created by Veeam Backup & Replication

Add Backup Proxy

Select a type of backup proxy you want to add.

- General-purpose backup proxy**  
Add a backup proxy for agent-based backups of NAS, filers, file shares and off-host backups of physical servers.
- VMware backup proxy**  
Add a backup proxy for agentless VMware vSphere VM backups.
- VMware CDP proxy**  
Add a CDP proxy for agentless streaming VMware vSphere VM replication.

Cancel

# Arquitetura & Componentes Principais

Como adicionar e configurar um Proxy? (Ex. VMware)

New VMware Proxy

**Server**

Choose a server for VMware backup proxy. You can choose between any Microsoft Windows or Linux servers added to the Managed Servers which are not assigned a VMware backup proxy role already.

Choose server: vbrv13 (Backup server) Add New...

Description:

Transport mode: Automatic selection Choose...

Connected datastores: Automatic detection (recommended) Choose...

Max concurrent tasks: 8 ✓

< Previous Next > Finish Cancel

# Arquitetura & Componentes Principais

Como adicionar e configurar um Proxy? (Ex. VMware)

New VMware Proxy

**Server**

Choose a server for VMware backup proxy. You can choose between any Microsoft Windows or Linux servers added to the Managed Servers which are not assigned a VMware backup proxy role already.

Choose server: vbrv13 (Backup server) [Add New...](#)

Description:

Transport mode: Automatic selection [Choose...](#)

Connected datastores: Automatic detection (recommended) [Choose...](#)

Max concurrent tasks: 8

< Previous Next > Finish Cancel

Transport Mode

Backup proxy transport mode:

- Automatic selection**  
Data retrieval mode is selected automatically by analyzing backup proxy configuration and reachable VMFS and NFS datastores. Transport modes allowing for direct storage access will be used whenever possible.
- Direct storage access**  
Data is retrieved directly from shared storage, without impacting production hosts. For block storage, backup proxy server must be connected into SAN fabric via hardware or software HBA, and have VMFS volumes mounted.
- Virtual appliance**  
Data is retrieved directly from storage through hypervisor I/O stack by hot adding backed up virtual disks to a backup proxy VM. Datastores containing protected VMs must be connected to a host running backup proxy VM.
- Network**  
Data is retrieved from storage through hypervisor network stack using NBD protocol over host management interface. This mode has no special setup requirements. Recommended for 10 Gb Ethernet or faster.

Options

- Failover to network mode if primary mode fails, or is unavailable
- Enable host to proxy traffic encryption in Network mode (NBDSSL)

OK Cancel

# Arquitetura & Componentes Principais

Como adicionar e configurar um Proxy? (Ex. VMware)

New VMware Proxy

**Server**

Choose a server for VMware backup proxy. You can choose between any Microsoft Windows or Linux servers added to the Managed Servers which are not assigned a VMware backup proxy role already.

Choose server:  
vbrv13 (Backup server) Add New...

Description:

Transport mode:  
Automatic selection Choose...

Connected datastores:  
Automatic detection (recommended) Choose...

Max concurrent tasks: 8 ✓

< Previous   Next >   Finish   Cancel

Veeam Backup & Replication cria uma tarefa para cada disco virtual de cada VM.

O número recomendado de tarefas concorrentes é calculado automaticamente com base nos recursos disponíveis: 1 núcleo de CPU = 2 tarefas concorrentes.

Mas a melhor prática é reservar 2 núcleos de CPU e 2GB de RAM para as necessidades do sistema operacional.

Assim, para uma CPU de 4 núcleos, recomenda-se configurar 4 tarefas concorrentes ((4 CPUs – 2 CPUs) x 2 = 4), para uma CPU de 8 núcleos — 12 tarefas concorrentes ((8 CPUs – 2 CPUs) x 2 = 12).

# Arquitetura & Componentes Principais

Como adicionar e configurar um Proxy? (Ex. Hyper-V On-Host)

The screenshot shows the Veeam Backup & Replication console interface. At the top, there are navigation tabs for 'Home' and 'View'. Below this, there are icons for various backup and replication jobs, categorized into 'Primary Jobs' and 'Secondary Jobs'. The main area is titled 'Inventory' and contains a tree view of the system's components. A green arrow labeled '1' points to the 'Inventory' tab at the bottom left. Another green arrow labeled '2' points to the 'HyperV-01' item in the tree view. A context menu is open over 'HyperV-01', with a green arrow labeled '3' pointing to the 'Properties...' option.

The screenshot shows the 'Edit Hyper-V Server' dialog box. The 'Review' tab is selected, and it displays a message: 'Please review your settings and click Apply to continue.' Below this, a table lists the components that will be installed or removed on the target host:

Component name	Status
Veeam Data Mover service	already exists
Hyper-V Integration	already exists
Guest Interaction Proxy	already exists

Below the table, there is a note: 'This Hyper-V server will act as the backup proxy for jobs running in the on-host backup mode.' A green arrow labeled '4' points to the 'Task limit' field, which is set to 8. At the bottom of the dialog, there are buttons for '< Previous', 'Apply', 'Finish', and 'Cancel'.

# Arquitetura & Componentes Principais

Adicionando um Proxy via Veeam Infrastructure Appliance (VIA) para VSA.

Em ambientes com VSA. Faça login em [my.veeam.com](https://my.veeam.com) localize a ISO do Veeam Infrastructure Appliance disponível em Produtos (*Painel esquerdo*) → Veeam Software Appliance → **Extensions and Other**.

## Additional Downloads

Cloud Plug-ins

Virtualization Plug-ins

Application Plug-ins

Storage Plug-ins

Third Party Integration

Extensions and Other

### — Veeam Infrastructure Appliance




Version: 13.0.0.4967

September 3, 2025

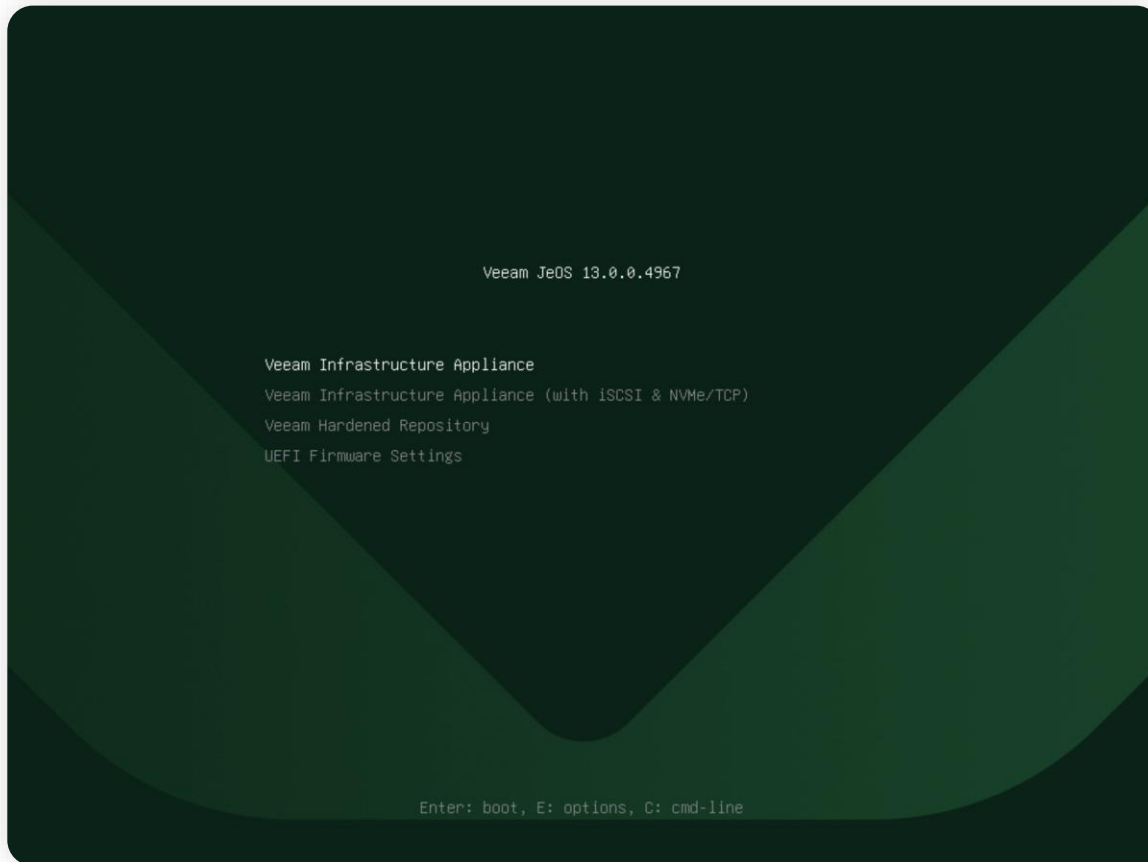
**MD5:** dbec...76ba 

**SHA-1:** cf9f...c42c 

**SHA-256:** 0bf5...a606 

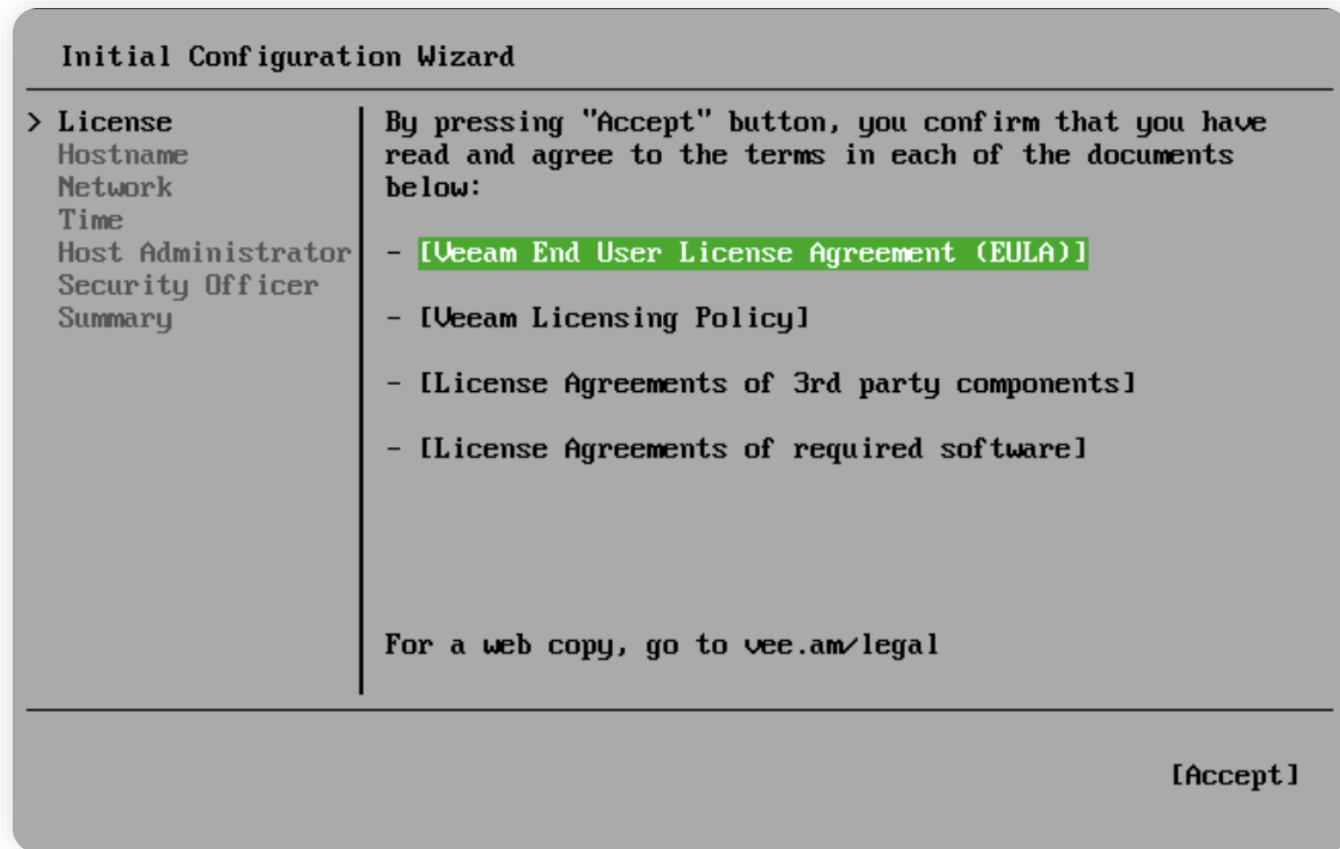
# Arquitetura & Componentes Principais

Instalação do Proxy utilizando o Veeam Infrastructure Appliance (Linux-based)



# Arquitetura & Componentes Principais

Instalação do Proxy utilizando o Veeam Infrastructure Appliance (Linux-based)



Todos os passos são idênticos ao assistente de instalação do VSA...

# Arquitetura & Componentes Principais

## Instalação do Proxy utilizando o Veeam Infrastructure Appliance (Linux-based)

The screenshot shows the Veeam Backup & Replication console interface. The top navigation bar includes 'Home' and 'Backup Proxy'. Below the navigation bar, there are several action buttons: 'Add Proxy' (highlighted with a green arrow and a '2' in a circle), 'Remove Proxy', and 'Upgrade Proxy'. A tooltip for 'Add Proxy' indicates it adds a new backup proxy. The left sidebar shows the 'Backup Infrastructure' section, with 'Backup Proxies' highlighted (marked with a '1' in a circle). The main content area displays a search bar and a table of existing proxies:

Name	Type
Backup Proxy	Agent
VMware Backup Proxy	VMware

The screenshot shows the 'New Backup Proxy' configuration window. The 'Server' tab is selected. The 'Server' section contains the following information:

- Server:** Choose a server to be used as an off-host backup proxy for NAS, file share, object storage and agent-based backups. You can choose between any servers added to the Managed Servers which do not carry such role already.
- Choose server:** 10.0.0.248 (Created by .\veeamadmin at 11/18/2025 5:53 AM.)
- Description:** (Empty text area)
- Max concurrent tasks:** 8

Navigation buttons at the bottom include '< Previous', 'Next >', 'Finish', and 'Cancel'.

# Arquitetura & Componentes Principais

## Configuração do Proxy (VSA): Adicionando como Managed Server (Opcional)

The screenshot shows the Veeam Backup & Replication console interface. The top navigation bar includes 'Home' and 'Server'. Below it, there are buttons for 'Add Server', 'Edit Server', 'Remove Server', and 'Rescan'. The main content area is divided into two sections: 'Backup Infrastructure' on the left and a search area on the right. The 'Backup Infrastructure' section is expanded to show 'Managed Servers', with 'Linux' selected. The search area contains a table with the following data:

Name	Type
10.0.0.247	Linux server
10.0.0.248	Linux server
vbr-vsa	Linux server (default Linux mount server)

The 'Advanced Settings' dialog box is shown with the 'Components' tab selected. It contains the following text: "Optional components may be required depending on the role assigned to this host. You can uninstall the unneeded components at any time." Below this, there is a section titled 'Optional components' with a list of checked items:

- HPE StoreOnce Library
- Dell Data Domain Library
- NFS gateway
- SMB gateway
- Guest Interaction Proxy
- Mount target dependencies
- NetApp SnapDiff library

On the right side of the list, there are 'Select All' and 'Clear All' buttons. At the bottom right of the dialog, there are 'OK' and 'Cancel' buttons.



**Vamos fazer uma  
pausa de 5 minutos**

The background features a gradient from dark blue on the left to light green on the right. Overlaid on this are several thin, white, wavy lines that create a sense of motion and depth, resembling a stylized wave or a digital signal pattern.

# Repositório Backup Repository

# Arquitetura & Componentes Principais

## Repositório de Backup

Um repositório é um local de armazenamento onde arquivos de backup, cópias dos dados da VM e metadados necessários para a restauração.

O repositório pode ser local ou remoto, e serve como um espaço centralizado de armazenamento para backup e replicação de dados.

### Direct Attached Storage

- Microsoft Windows Server
- Linux server
- Veeam Hardened Repository

### Network Attached Storage

- SMB (CIFS) share
- NFS share

### Deduplicating Storage Appliances

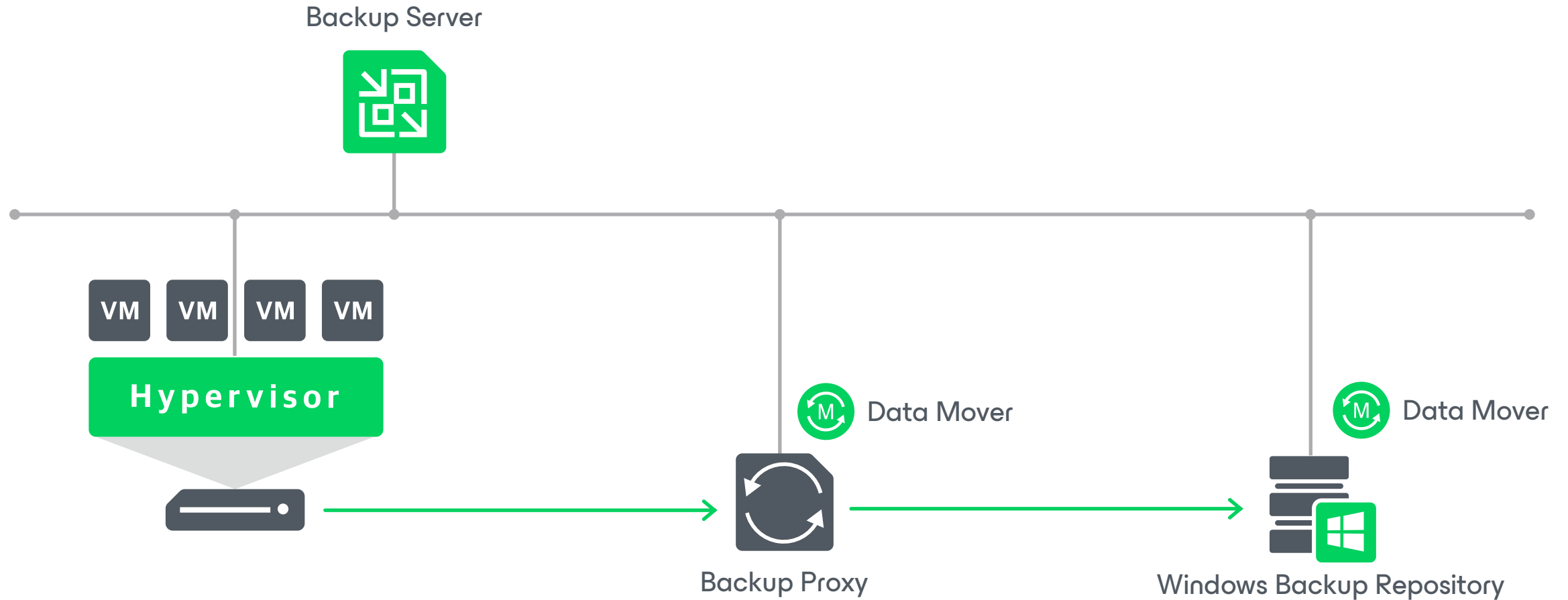
- Dell EMC Data Domain
- ExaGrid
- Fujitsu ETERNUS CS800
- HPE StoreOnce
- Infinidat InfiniGuard
- Quantum Dxi

### Object Storage

- **Veeam Data Cloud Vault**
- Any S3 Compatible
- Amazon S3
- Google Cloud Storage
- IBM Cloud Object Storage
- Microsoft Azure Storage
- Wasabi Cloud Storage

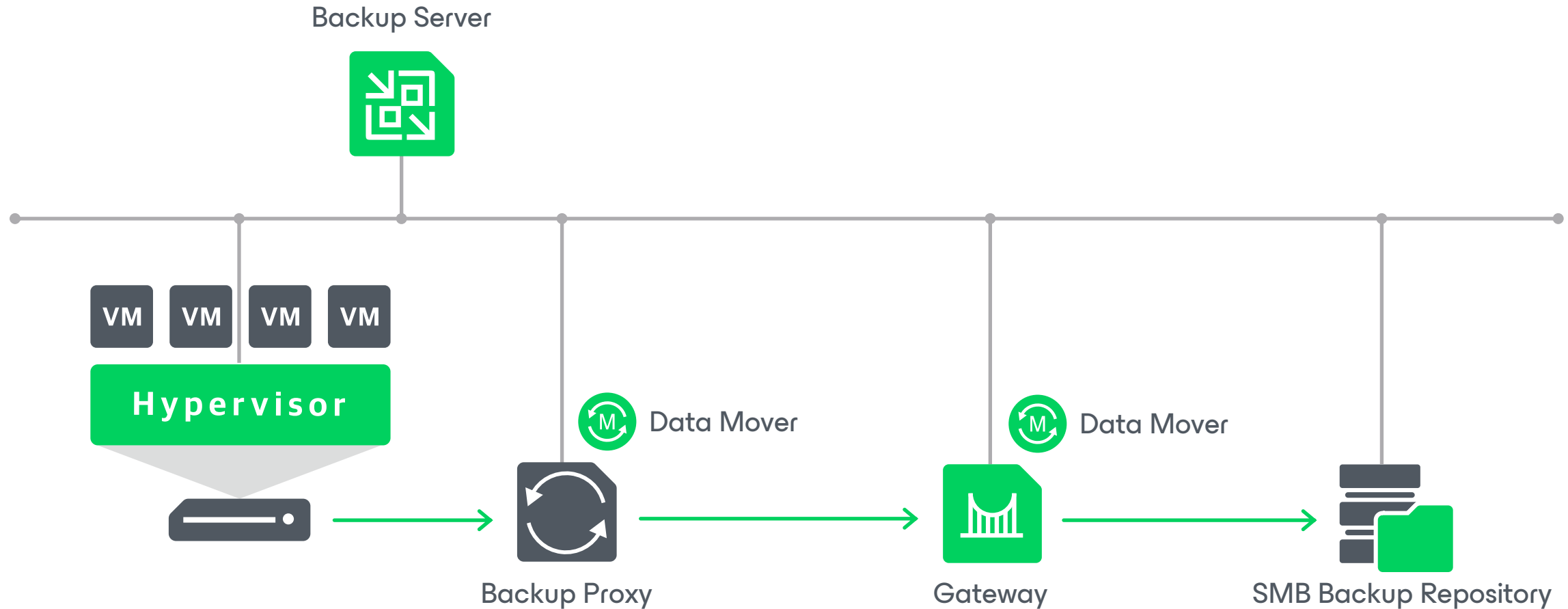
# Arquitetura & Componentes Principais

Repositório de Backup (Ex: Windows)



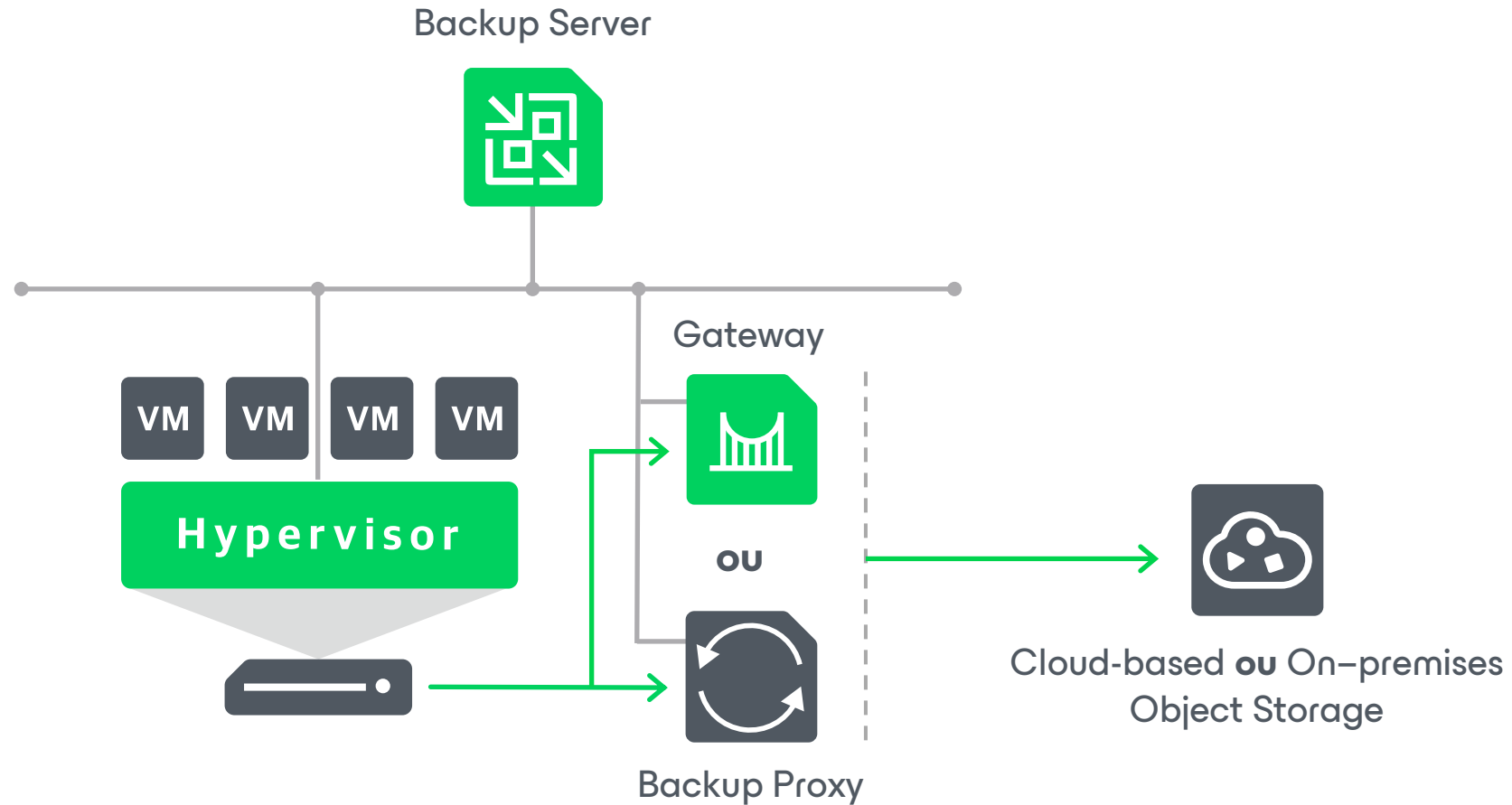
# Arquitetura & Componentes Principais

Repositório de Backup (Ex: SMB/NFS)



# Arquitetura & Componentes Principais

Repositório de Backup (Ex: Object Storage)



The background features a gradient from dark blue on the left to light green on the right. Overlaid on this are several sets of thin, wavy lines that create a sense of motion and depth. The lines are more densely packed in some areas and more spread out in others, following the overall color gradient.

# Imutabilidade

# Imutabilidade

## Definição de Imutabilidade:

- Imutabilidade refere-se ao estado dos dados que impede que sejam modificados ou excluídos.

## Benefícios da Imutabilidade:

- Garante a integridade e segurança dos dados.
- Oferece proteção contra exclusões acidentais.
- 99.9999999999% (12 noves) proteção contra ransomware

## Tipos suportados de repositórios imutáveis

- Veeam Data Cloud Vault
- Amazon, S3-compatible and Azure object storage repositories.
- Veeam Hardened Repository
- HPE StoreOnce
- Exagrid
- DellEMC Data Domain
- Object First

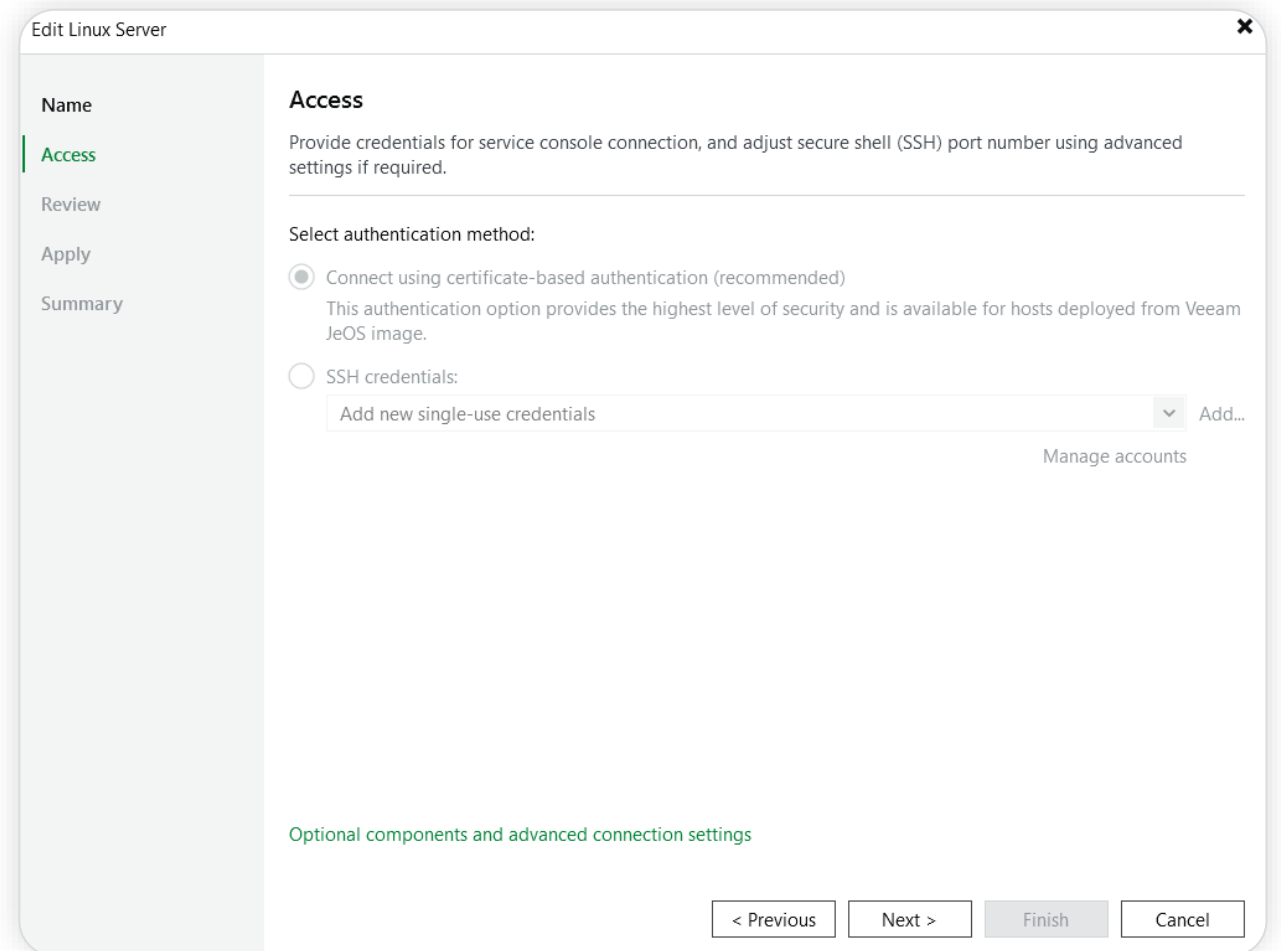
# Imutabilidade

## Veeam Hardened Repository

Na etapa de Conexão SSH do assistente, especifique **single-use credentials** ou **certificate** para se conectar ao servidor Linux e implantar o serviço de **Data Mover**.

Veeam Backup & Replication **não armazena essas credenciais** no banco de dados de configuração.

**IMPORTANTE:** A conta de usuário que você usa deve ser uma conta que não seja root. Além disso, deve ter o diretório **home** criado no servidor Linux previamente.



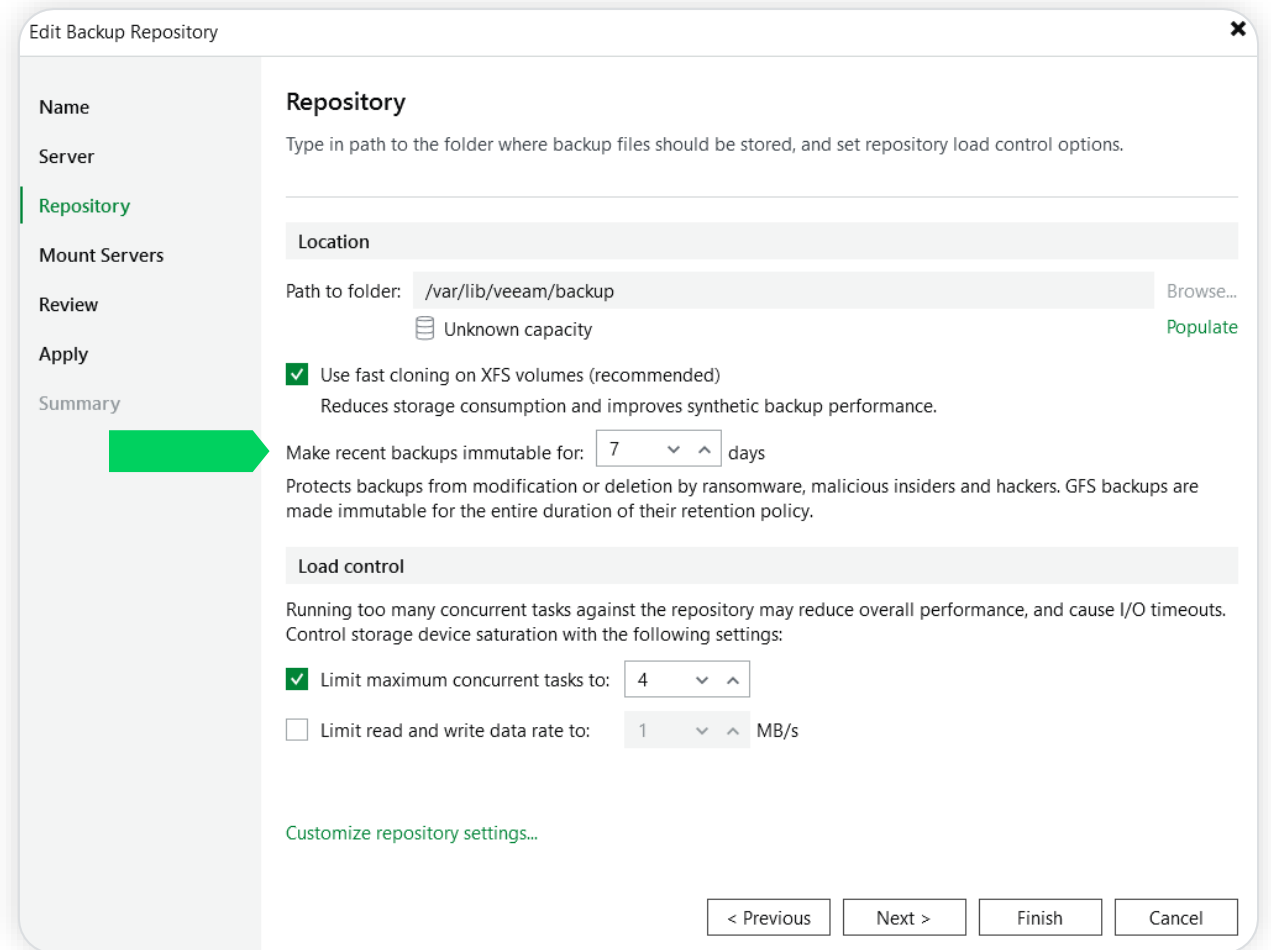
The screenshot shows the 'Edit Linux Server' dialog box with the 'Access' tab selected. The dialog has a sidebar with options: Name, Access (selected), Review, Apply, and Summary. The main content area is titled 'Access' and contains the following text: 'Provide credentials for service console connection, and adjust secure shell (SSH) port number using advanced settings if required.' Below this, there is a section 'Select authentication method:' with two radio button options. The first option is 'Connect using certificate-based authentication (recommended)' with a sub-note: 'This authentication option provides the highest level of security and is available for hosts deployed from Veeam JeOS image.' The second option is 'SSH credentials:'. Under the second option, there is a text input field containing 'Add new single-use credentials' and a dropdown arrow, followed by an 'Add...' button. Below the input field is a 'Manage accounts' link. At the bottom of the dialog, there are four buttons: '< Previous', 'Next >', 'Finish', and 'Cancel'. A link for 'Optional components and advanced connection settings' is located at the bottom left of the main content area.

# Imutabilidade

## Tornando backups imutáveis com Veeam Hardened Repository

Quando você adiciona um repositório imutável, você especifica o período que os arquivos de backup devem ficar imutáveis.

Durante esse período, arquivos de backup armazenados nesse repositório que foram armazenados **não pode ser modificados ou excluídos.**



**Edit Backup Repository**

**Repository**

Type in path to the folder where backup files should be stored, and set repository load control options.

**Location**

Path to folder:  Browse...  
Unknown capacity

Use fast cloning on XFS volumes (recommended)  
Reduces storage consumption and improves synthetic backup performance.

Make recent backups immutable for:  days  
Protects backups from modification or deletion by ransomware, malicious insiders and hackers. GFS backups are made immutable for the entire duration of their retention policy.

**Load control**

Running too many concurrent tasks against the repository may reduce overall performance, and cause I/O timeouts. Control storage device saturation with the following settings:

Limit maximum concurrent tasks to:   
 Limit read and write data rate to:  MB/s

[Customize repository settings...](#)

< Previous   Next >   Finish   Cancel

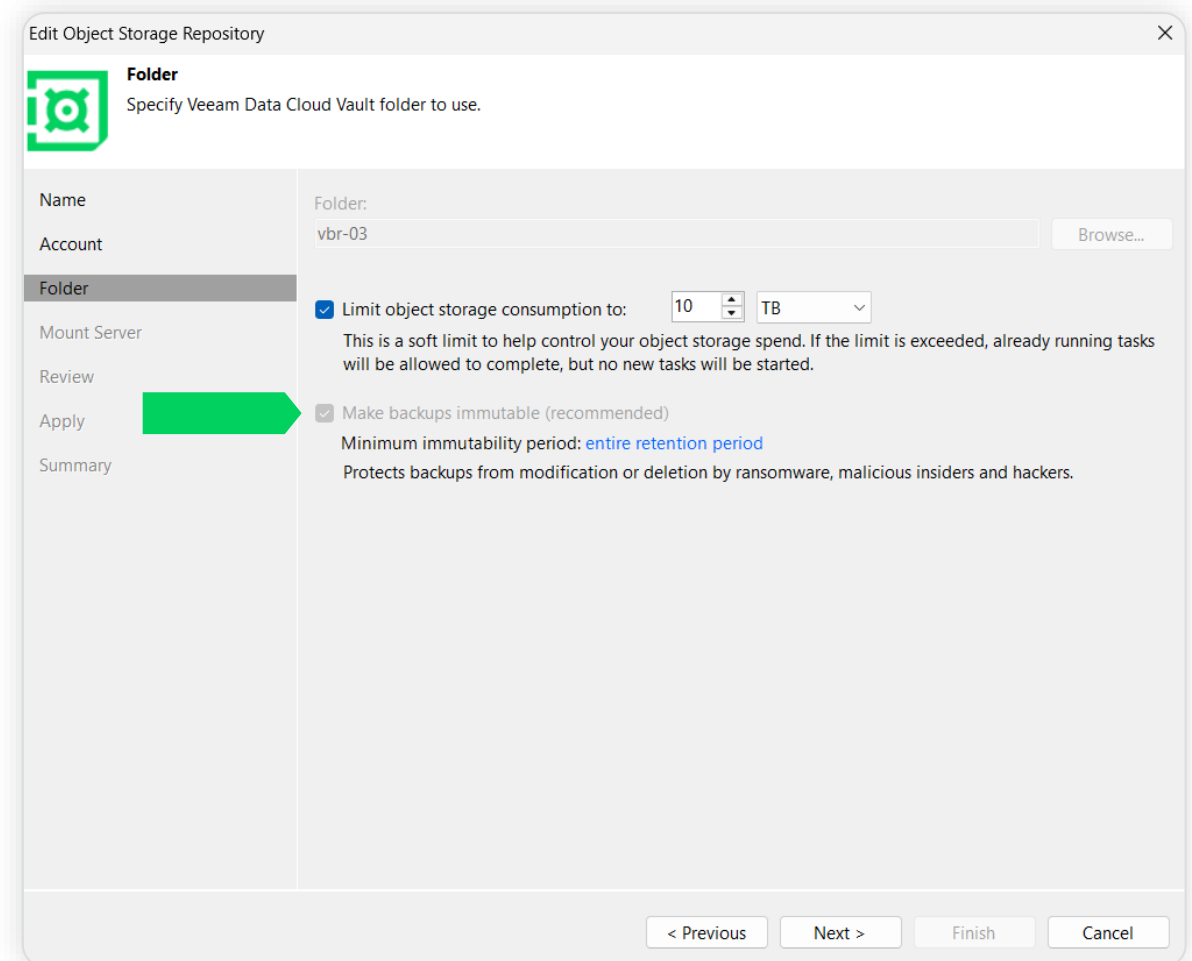
# Imutabilidade

## Tornando backups imutáveis com Object Storage

Para tornar os dados imutáveis, o Veeam Backup & Replication utiliza a tecnologia que impede a exclusão de dados e permite manter várias versões dos objetos.

Os selecionados **A tecnologia depende do tipo de armazenamento de objetos:**

- Object-Lock e Versionamento – para: Amazon S3 Storage, S3 Compatible, IBM Cloud, Wasabi Cloud e Veeam Vault (Imutável por padrão).
- Version-level WORM e blob versioning – para Azure Storage.



# Como adicionar um Repositório de Backup

# Arquitetura & Componentes Principais

## Como adicionar um Repositório (Ex. Direct Attached Storage)

Veeam Backup and Restore console interface. The 'Backup Repository' tab is active. The 'Backup Infrastructure' menu is highlighted with a green arrow and a '1' in a circle. The 'Add Repository' button is highlighted with a green arrow and a '3' in a circle. The 'Backup Repositories' option in the left sidebar is highlighted with a green arrow and a '2' in a circle. A search bar and a table of repository types are visible on the right.

Name	Type
Dell Data Domain	Dell Data Domain
Default Backup Repository	Built-in
Object First	S3-integrated
Primary on Premises Repository	Windows
Veeam Hardened Repository	Hardened
Veeam Hardened Repository (SOBR)	Hardened
Veeam Vault	Veeam Data Cloud Vault

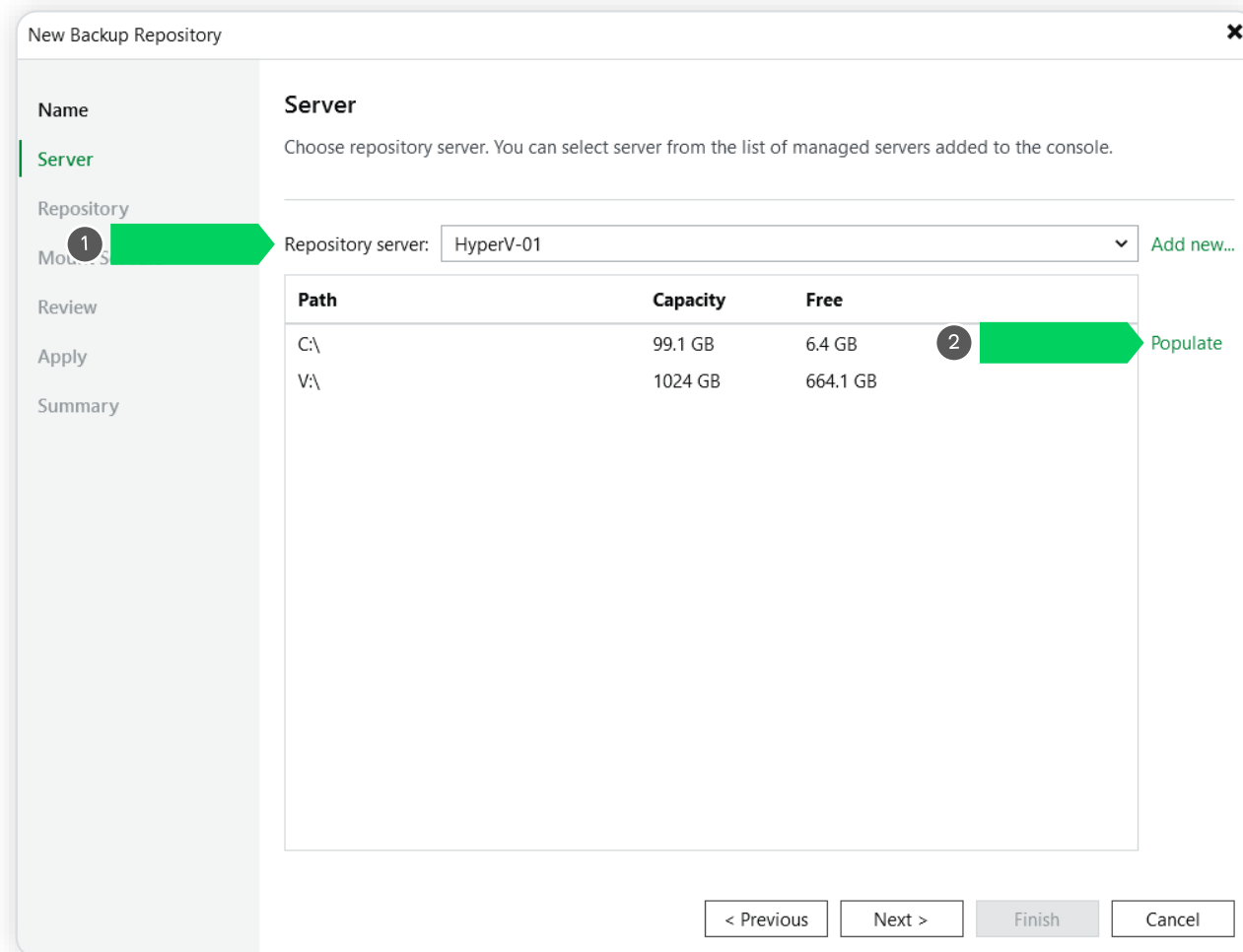
Direct Attached Storage dialog box. Select the operating system type of a server you want to use as a backup repository.

- Microsoft Windows** (highlighted with a green arrow and a '5' in a circle): Add local storage presented as a regular volume or Storage Spaces. For best performance and storage efficiency, we recommend using ReFS.
- Linux**: Add local storage or a locally mounted NFS share. For better performance and storage efficiency, we recommend using XFS. The Linux server must use bash shell, and have SSH and Perl installed.
- Linux (Hardened Repository)**: Requires a Linux server with internal or direct attached storage. To minimize the attack surface, it is highly recommended to deploy the Linux Hardened Repository using the Veeam JeOS (Just Enough Operating System) image. This configuration enhances protection against cybersecurity threats by enabling immutable backups.

Cancel

# Arquitetura & Componentes Principais

Como adicionar um Repositório (Ex. Direct Attached Storage)



# Arquitetura & Componentes Principais

## Como adicionar um Repositório (Ex. Direct Attached Storage)

**New Backup Repository**

**Repository**  
Type in path to the folder where backup files should be stored, and set repository load control options.

**Location**

Path to folder:  Browse...  
Unknown capacity

**Load control**

Running too many concurrent tasks against the repository may reduce overall performance, and cause I/O timeouts. Control storage device saturation with the following settings:

Limit maximum concurrent tasks to:

Limit read and write data rate to:  MB/s

< Previous   Next >   Finish   Cancel

**Storage Compatibility Settings**

**Align backup file data blocks (recommended)**  
Significantly improves backup and restore performance while reducing storage CPU usage by avoiding unaligned I/O. Increases backup size by less than 2%.

**Decompress backup file data blocks before storing**  
Source data mover compresses data according to the backup job compression settings to minimize LAN traffic. Uncompressing the data before storing allows for better deduplication ratio on most deduplicating storage appliances.

**This repository is backed by rotated drives**  
Backup jobs pointing to this repository will tolerate the disappearance of previous backups by creating a new full, and track the repository volume location across unintentional drive letter changes.

When a drive is changed:

# Arquitetura & Componentes Principais

## Como adicionar um Repositório (Ex. Direct Attached Storage)

New Backup Repository

**Name**

**Server**

**Repository**

**Mount Servers**

Specify servers to mount backups to when performing advanced restores (file, application item and instant VM recoveries). Instant recoveries require a write cache folder to store changed disk blocks in.

Designating platform-specific mount servers enables support for additional file systems and advanced file system functionality for file-level and application item-level restores.

Windows mount server:

HyperV-01 Add new... Configure settings

Linux mount server:

vbr-02.usdemo.veeam.local (Backup server) Add new... Configure settings

< Previous **Next >** Finish Cancel

Mount Server Settings

Enable vPower NFS service on the mount server (recommended) Ports...

Unlocks instant recovery of any backup (physical, virtual or cloud) to a VMware vSphere VM. vPower NFS service is not used for instant recovery to a Microsoft Hyper-V VM.

Instant recovery write cache folder:  Browse...

Ensure that the selected volume has sufficient free disk space to store changed disk blocks of instantly recovered machines. We recommend placing the write cache folder on an SSD drive.

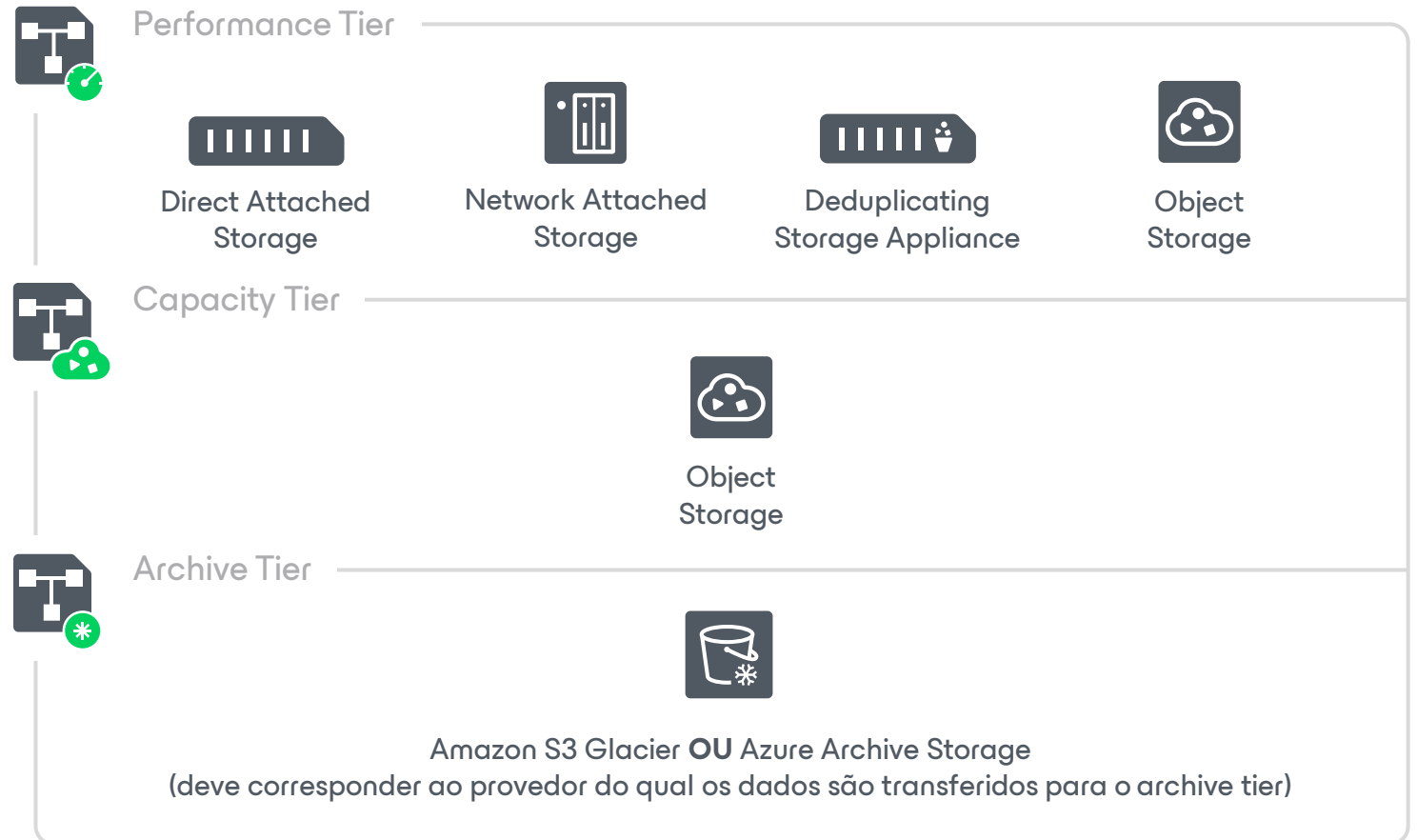
OK Cancel

# Scale-Out Backup Repository (SOBR)

# Arquitetura & Componentes Principais

## Scale-Out Backup Repository (SOBR)

Um sistema de repositório escalável com suporte **multi-tier** em armazenamento. Inclui **performance tier** (Armazenamento local ou compartilhado) e pode ser estendido com **capacity** e/ou **archive** tiers, fornecendo escalabilidade horizontal para diversas necessidades de armazenamento.



# Arquitetura & Componentes Principais

Como adicionar e configurar o Scale-Out Backup Repository?

New Scale-out Backup Repository

**Name**  
Type in a name and description for this scale-out backup repository.

**Name**

- Performance Tier
- Placement Policy
- Capacity Tier
- Summary

Name:  
Scale-out Backup Repository

Description:  
|

< Previous   Next >   Finish   Cancel

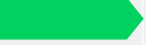


# Arquitetura & Componentes Principais

## Como adicionar e configurar o Scale-Out Backup Repository?


**Edit Scale-out Backup Repository**

**Placement Policy**  
Choose a backup files placement policy for this performance tier. When more than one extent matches the placement policy, backup job will choose the extent with the most free disk space available.

Name 

Performance Tier

**Placement Policy**


Capacity Tier 

Archive Tier

Summary

**Data locality**  
All dependent backup files are placed on the same extent. For example, incremental backup files will be stored together with the corresponding full backup file. However, the next full backup file can be created on another extent (except extents backed by a deduplicating storage).

**Performance**  
Incremental backup files are placed on a different extent from the corresponding full backup file, providing for better backup file transformation performance with raw storage devices. Note that losing an extent with a full backup makes restoring from increments impossible.


Specify the placement policy for full and incremental backup files. [Customize...](#) 

**Strict placement policy enforcement**  
By default, whenever we are unable to place a new backup according to the policy, we will violate it to ensure a backup could still be created. Select this option if you'd rather have backup jobs fail in such circumstances instead.

< Previous   Next >   Finish   Cancel

**Backup Placement Settings**

Extents:

Name	Allowed backups	Edit...
Veeam Hardened Repository	All backups	
Veeam Hardened Repository (SO...	All backups	

**Veeam Hardened Repository Extent Settings**

Allowed backup files:

- Full backup files
- Incremental backup files

OK   Cancel

OK   Cancel

# Arquitetura & Componentes Principais

## Como adicionar e configurar o Scale-Out Backup Repository?

**Edit Scale-out Backup Repository**

**Capacity Tier**  
Specify object storage to copy backups to for redundancy and DR purposes. Older backups can be moved to object storage completely to reduce long-term retention costs while preserving the ability to restore directly from offloaded backups.

Name: [Redacted]  Extend scale-out backup repository capacity with object storage:  
Performance Tier: <Click Choose to pick object storage> Choose...  
Placement Policy: [Redacted]  Copy backups to object storage as soon as they are created  
Create additional copy of your backups for added redundancy by having all backups copied to the capacity tier as soon as they are created on the performance tier.

**Capacity Tier**

Summary: [Redacted]  Move backups to object storage as they age out of the operational restore window  
Reduce your long-term retention costs by moving older backups to object storage completely while preserving the ability to restore directly from offloaded backups.  
Move backup files older than 14 days (your operational restore window) Override...  
 Encrypt data uploaded to object storage  
Password: Select an existing password or add new Add...  
[Manage passwords](#)

Offload window: Any time Health check: Monthly

< Previous Apply Finish Cancel

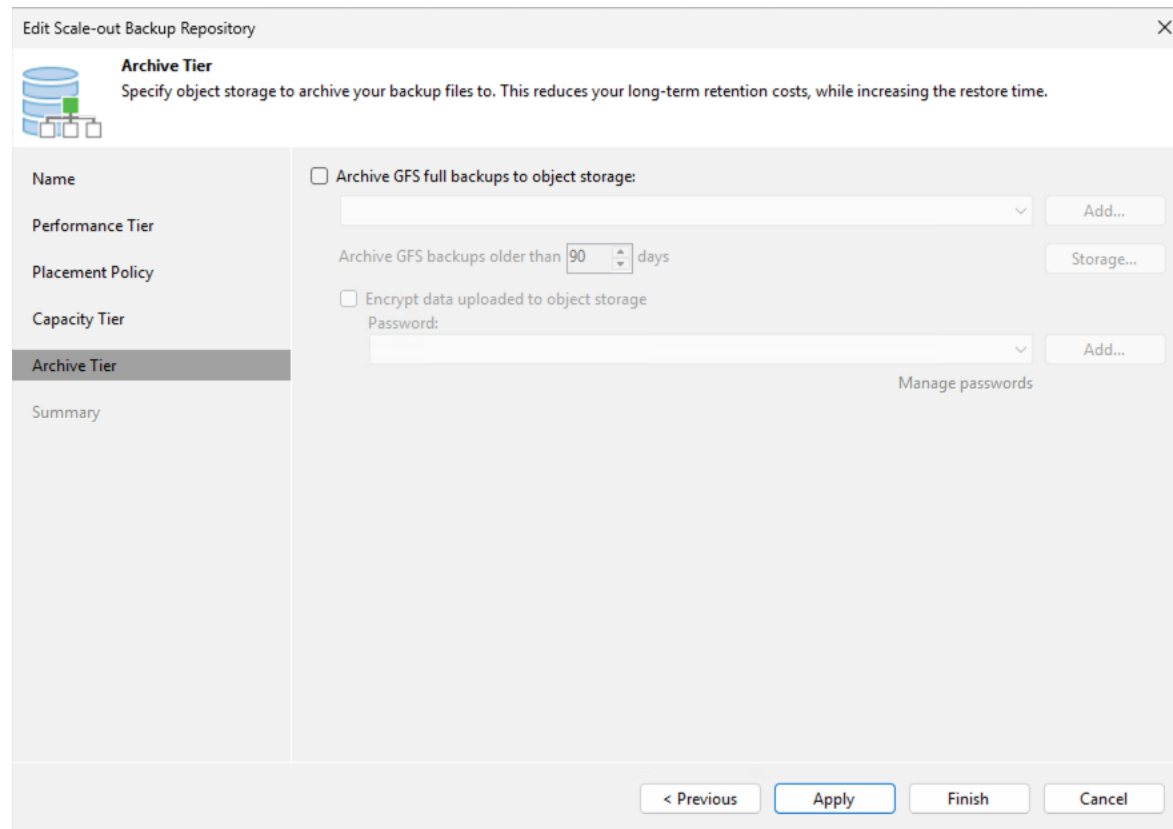
**Override**

Move oldest backup files sooner if scale-out backup repository is reaching capacity  
Offload until used space is below: 90 %  
OK Cancel

# Arquitetura & Componentes Principais

Como adicionar e configurar o Scale-Out Backup Repository?

## Tier 3: Archive Tier



The screenshot shows the 'Edit Scale-out Backup Repository' dialog box with the 'Archive Tier' tab selected. The dialog has a sidebar on the left with options: Name, Performance Tier, Placement Policy, Capacity Tier, Archive Tier (selected), and Summary. The main area contains the following configuration options:

- Archive GFS full backups to object storage:
  - A dropdown menu for selecting storage.
  - An 'Add...' button.
- Archive GFS backups older than  days
  - A 'Storage...' button.
- Encrypt data uploaded to object storage
  - Label: Password:
  - A dropdown menu for selecting a password.
  - An 'Add...' button.
  - A 'Manage passwords' link.

At the bottom of the dialog are four buttons: '< Previous', 'Apply', 'Finish', and 'Cancel'.

Desde a versão 12.3.x é possível utilizar diretamente do Tier 1 (Performance Tier) para Tier 3 (Archive Tier)

# Veeam Data Cloud Vault

Um Cloud Object Storage totalmente gerenciado e seguro que elimina modelos imprevisíveis de custos em nuvem.

# Veeam Data Cloud Vault Overview

## Fully managed

Remove manutenção contínua sem nenhum esforço de configuração, gerenciamento ou integração.

## Seguro

Imutabilidade impede que agentes mal-intencionados criptografem, deletem ou modifiquem seus backups. Criptografado em Transit e em Rest

## Sustentável

Cópias síncronas garantem até 99.9999999999% de durabilidade para proteger contra interrupções e falhas.

## Precificação Previsível

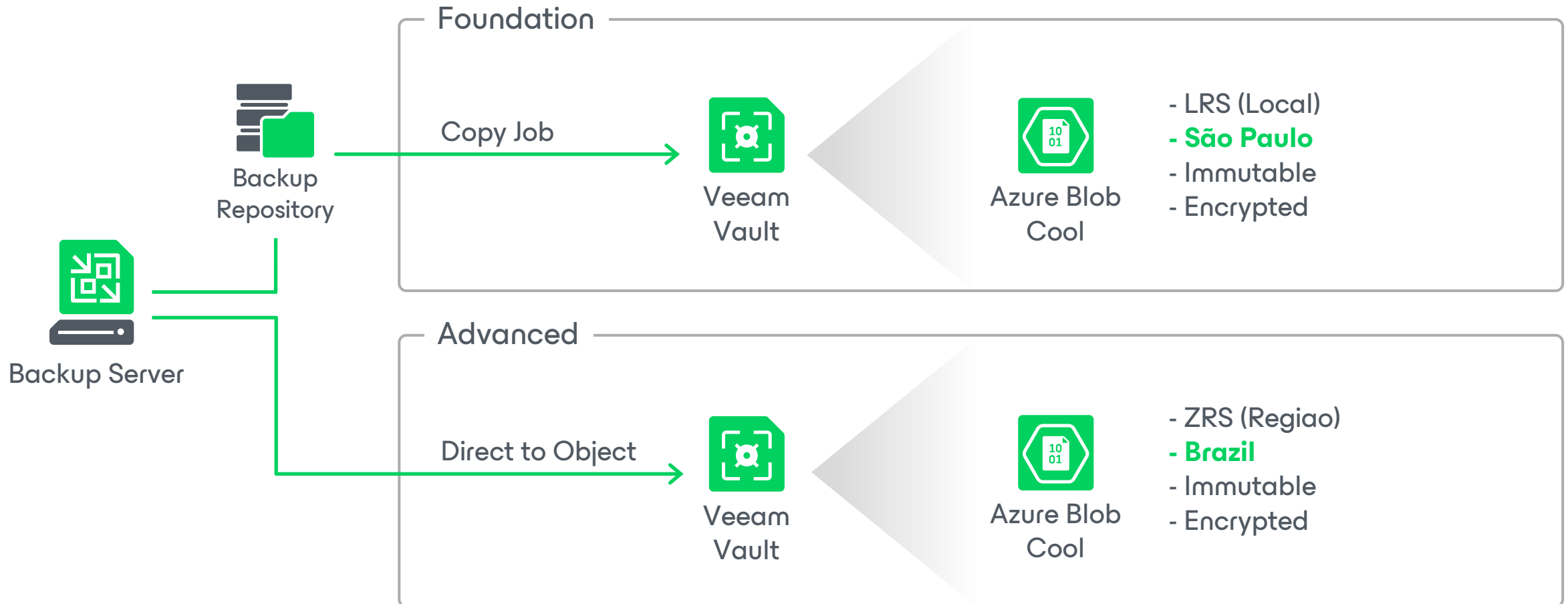
Inclui armazenamento e API Calls (Egress Fees), isso elimina choques nas faturas no fim do mês.

# Veeam Vault — Comparando Edições

	Foundation	Advanced
<b>Caso de uso/recomendado</b>	Copias secundárias dos Backups*	Backup Primario ou Copia secundaria
<b>Classe de Storage</b>	Azure Blob Cool	Azure Blob Cool
<b>Georedundância</b>	LRS (Local Redundant Storage) 99.999999999 de durabilidade Protegido contra falhas de Hardware	ZRS (Zone Redundant Storage) 12 noves de durabilidade Protecao contra falhas de Data Center
<b>Ler/Restaurar</b>	Até 20% por ano da capacidade total se cobrança de API Calls (Egress Fees)	Ilimitado
<b>Localidade dos dados</b>	Você especifica o país	Você especifica a Azure
<b>Imutável</b>	Sim	Sim
<b>Criptografado</b>	Sim	Sim

\*Backup Copy job é recomendado com Foundation. Direct to Object também é possível com Foundation, Mas há risco de uma cobrança extra devido à política de fair use de 20%.

# Veeam Vault — Foundation vs. Advanced — Casos de Uso



# Veeam Vault — Aonde ?



Veeam Data Cloud Vault + Azure



Veeam Data Cloud Vault + AWS

# Veeam Vault

Simple de configurar, basta utilizar o Wizard através do “Add Backup Repository”

### Add Backup Repository

Select the type of backup repository you want to add.

- Direct attached storage**  
Microsoft Windows or Linux server with internal or direct attached storage. This configuration enables data movers to run directly on the server, allowing for fastest performance.
- Network attached storage**  
Network share on a file server or a NAS device. When backing up to a remote share, we recommend that you select a gateway server located in the same site with the share.
- Deduplicating storage appliance**  
Dell Data Domain, ExaGrid, Fujitsu ETERNUS CS800, HPE StoreOnce, Infinidat InfiniGuard or Quantum DXi. If you are unable to meet the requirements of advanced integration via native appliance API, use the network attached storage option instead.
- Object storage**  
On-prem object storage system or a cloud object storage provider.
- Veeam Data Cloud Vault**  
Add fully managed, secure cloud object storage from Veeam. Cloud Vault is best suited for secondary backups. For more information and pricing, please go to [vee.am/vault](https://vee.am/vault).

Cancel

### Edit Object Storage Repository

**Account**  
Specify account to use for connecting to Veeam Data Cloud Vault.

Name	Credentials:
Account	<input type="text" value="vdvstoragetst001473 (last edited: 58 days ago)"/> Add...
Container	<a href="#">Manage cloud accounts</a>
Mount Server	
Review	
Apply	
Summary	

Connection mode:  
 Choose...

Specify whether object storage should be accessed directly or via selected gateway servers.

< Previous   Next >   Finish   Cancel

The background features a gradient from dark blue on the left to light green on the right. Overlaid on this are several thin, white, wavy lines that create a sense of motion and depth, resembling a stylized wave or a digital signal pattern.

# SureBackup, SureReplica & Virtual Lab

# Advanced Features

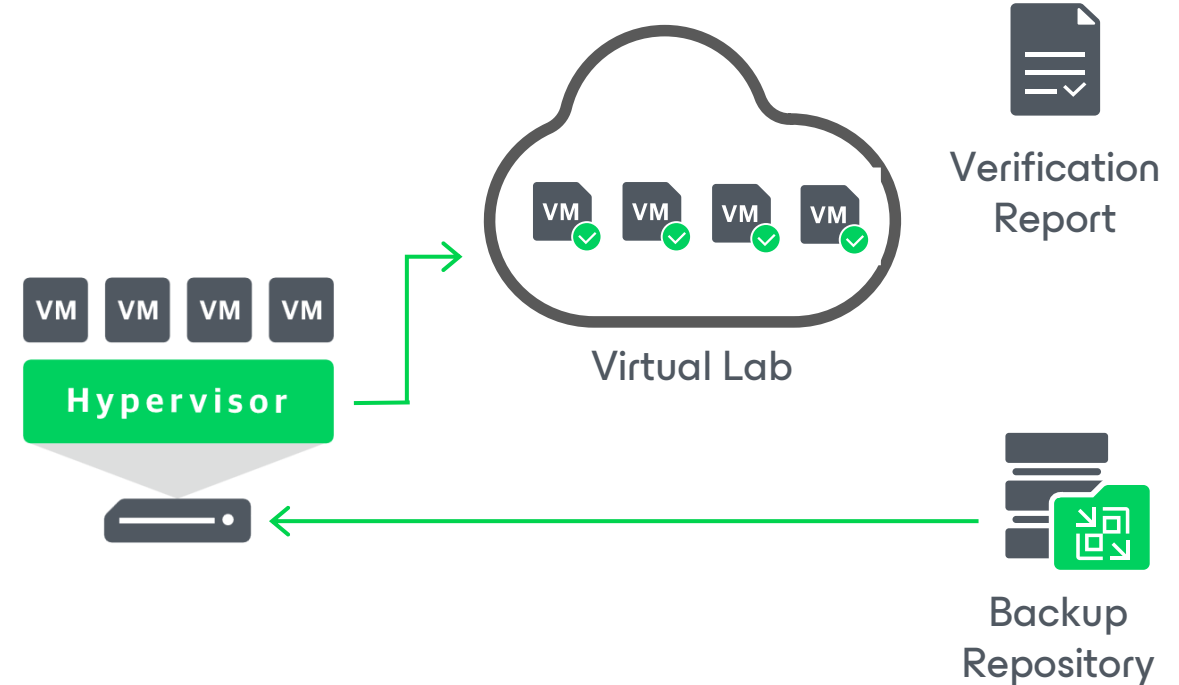
## SureBackup, SureReplica & On-Demand Sandbox

### SureBackup

Permite realizar automaticamente testes de recuperabilidade, verificação e varreduras de conteúdo para os backups realizados com sucesso.

### How?

1. Inicia VMs em um ambiente isolado no Laboratório Virtual (Virtual Lab).
2. Realiza um conjunto de testes.
3. Envia um relatório de status para sua caixa de correio.



Cria o  
Virtual Lab



Cria o  
Application  
Group(s)



Cria o  
SureBackup  
Job(s)



Especifica os  
testes dentro do  
Job(s)



Agenda/Execut  
a SureBackup  
Job(s)



Recebe  
Relatório de  
Verificação

# Advanced Features

## SureBackup Modos de Verificação

### Full recoverability testing

O Veeam Backup & Replication publica as máquinas em ambiente isolado e realiza a verificação de acordo com os scripts selecionados.

### Backup verification and content scan only

Sem publicar as máquinas no Virtual Lab, o Veeam Backup & Replication realiza verificação de integridade de backup e sua análise de conteúdo para detectar vestígios de malware ou qualquer outro dado indesejado ou sensível apenas montando o ponto de montagem.

New SureBackup Job

**Name**

Type in a name and description for this SureBackup job.

Name:

SureBackup Job

Description:

Backup verification mode:

- Full recoverability testing (recommended)  
Runs machines in an isolated environment directly from backup and performs tests against live applications. This ensures recoverability of your production workloads in a DR event.
- Backup verification and content scan only  
Performs backup integrity check and its content analysis to detect traces of malware or any other unwanted or sensitive data. These tests do not require setting up a virtual lab.

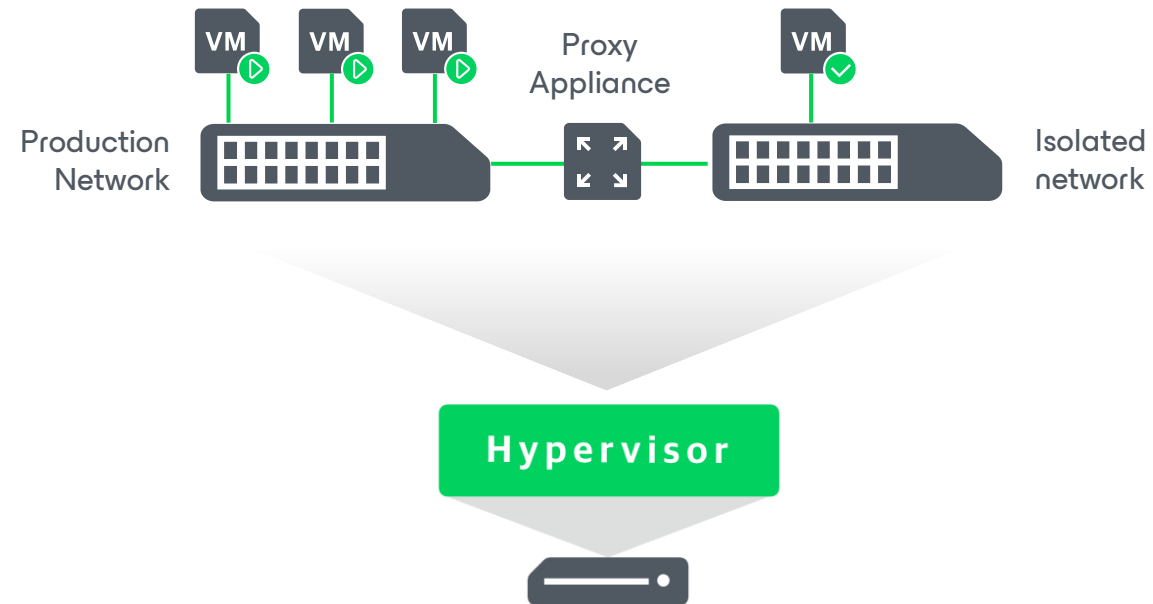
< Previous   Next >   Finish   Cancel

# Features Avançadas


## On-Demand Sandbox

Você consegue obter uma cópia do seu ambiente de produção a qualquer momento para uma variedade de **testes, segurança, treinamento ou solução de problemas.**

Todas as alterações feitas nas VMs são escritas em Logs que permitem desfazer caso necessário, se aplica para Jobs de Backups e Replicas, todas as alterações são salvas nos arquivos delta. Esses Logs e arquivos são apagados depois de finalizado o Job com o Sandbox On-Demand e o desliga.



# Storage Integration

The background features a gradient from dark blue on the left to light green on the right. Overlaid on this are several sets of thin, white, wavy lines that create a sense of motion and depth, resembling a stylized landscape or data flow.

# Storage Integration

## Tipos de integração

### VMware

---

- Backup de Máquinas Virtuais (baseadas em snapshots).
- Orquestre snapshots entre arrays de armazenamento.
- Restaure dados de snapshots com o Veeam Backup & Replication.

### NAS

---

- Backup de Compartilhamento de NAS sem esforço.

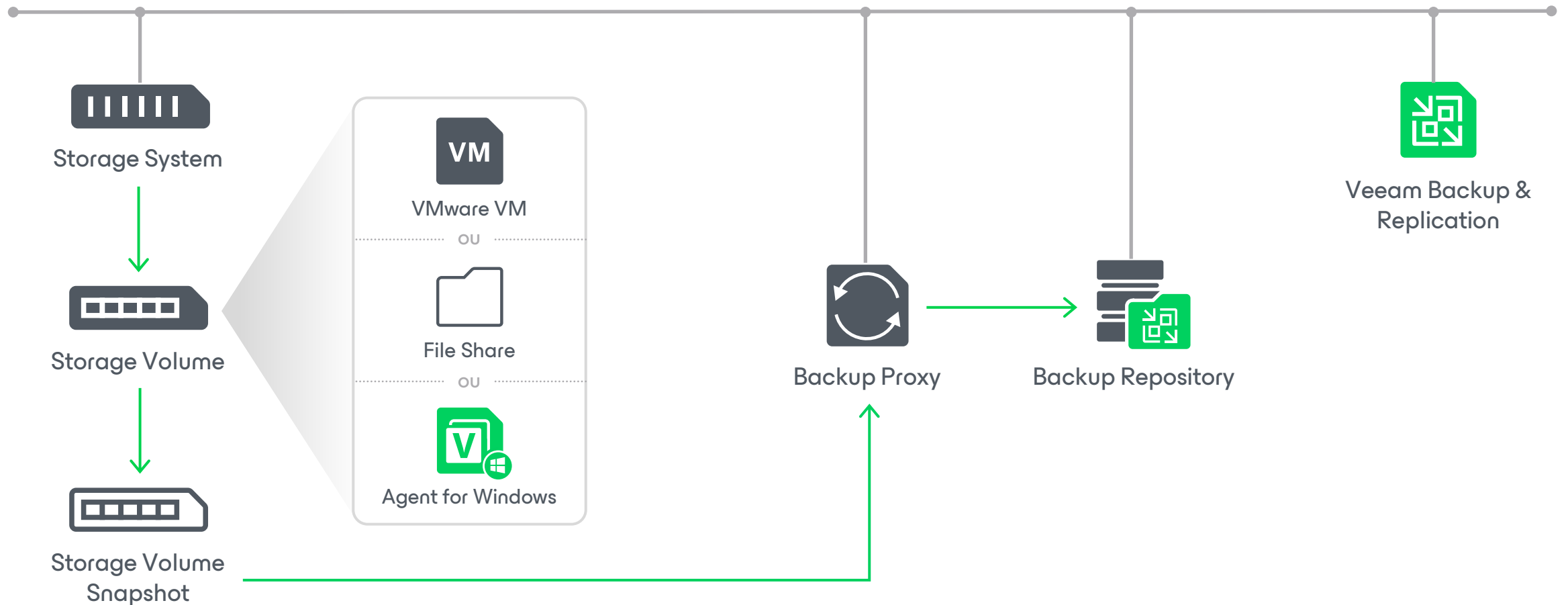
### Veeam Agent for Windows

---

- Criar backups do Veeam Agent para computadores Windows.

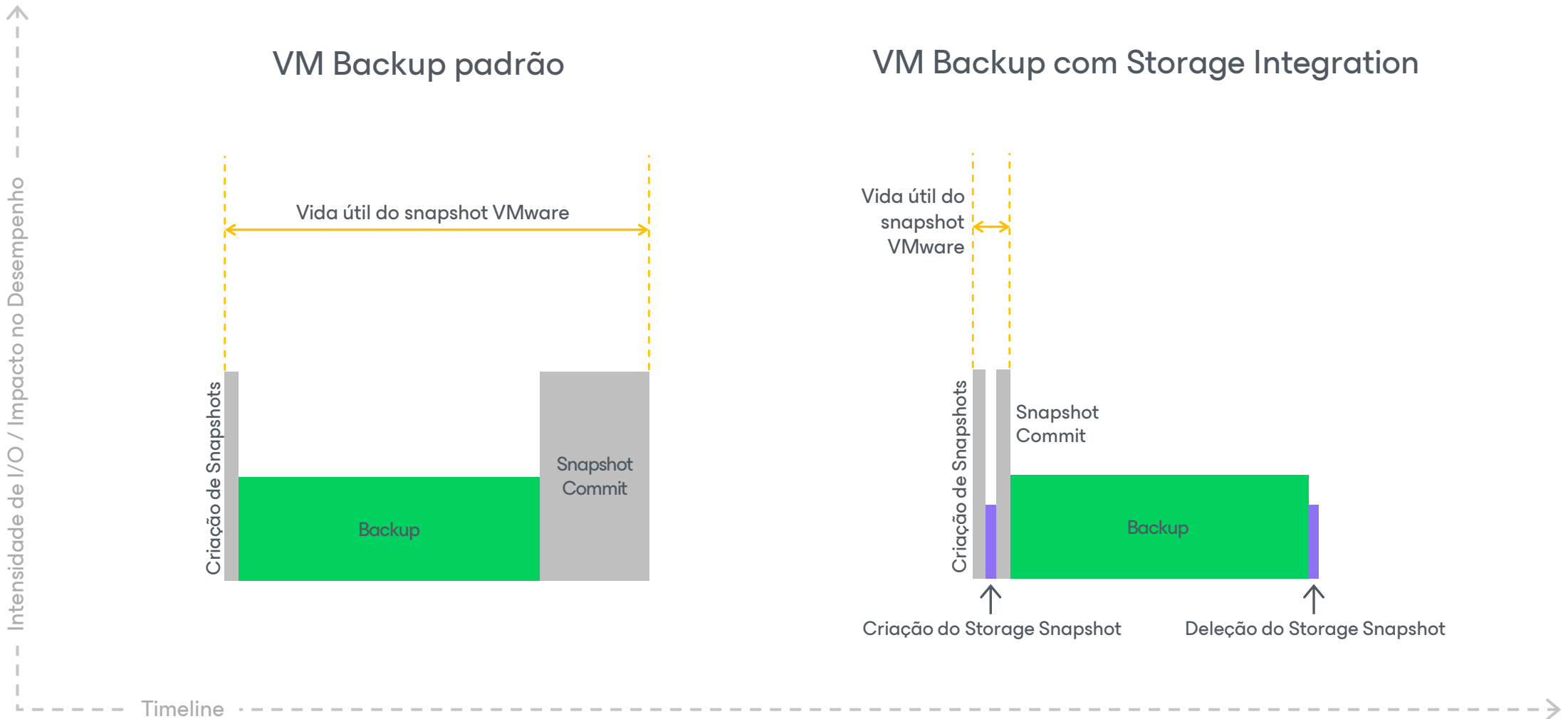
# Storage Integration

Visão geral da infraestrutura



# VMware Integration

## Representação da Linha do Tempo



# Storage Integration

## Como configurar?

3

Veeam Backup and Replication

Home Storage Veeam Intelligence

Add Storage Edit Storage Remove Storage Rescan

Manage Storage Actions

**Storage Infrastructure**

Storage Infrastructure 2

**Add Storage**

Veeam Backup & Replication integrates with the leading primary storage arrays to enable backup and restore of individual machines, VM disks, file shares, guest files and application items from storage snapshots of VMFS, NFS and CIFS volumes (including volumes replicated to secondary storage arrays). Veeam provides the Universal Storage API that allows all qualified storage vendors to integrate their storage arrays with this functionality.

To start using this functionality, register your storage by clicking this text. If you don't see your storage in the list, please check with your vendor for available plug-in.

**Take a Snapshot**

Set up periodic storage-level snapshots of your VMFS or NFS datastores using the storage management console. The storage will automatically create periodic snapshots of your datastores with little to no impact on your production environment, providing additional frequent restore points ideal for recovery from disasters caused by user errors.

For evaluation purposes, you can create an ad hoc storage snapshot by selecting the desired LUN in the Storage Infrastructure tree, and clicking the corresponding button in the ribbon.

**Restore**

To perform a restore from a storage snapshot, browse to the desired snapshot on the Storage Infrastructure tab, and select the VM you want to restore. You can restore the entire VM, VM disks, individual guest files or individual Microsoft Active Directory, Microsoft Exchange, Microsoft SharePoint, Microsoft SQL Server, Oracle and PostgreSQL application items.

Keep in mind that storage snapshots are not real backups, as they would be lost along with production data in the event of a storage disaster. Thus, you should never rely solely on storage snapshots for data protection. To ensure protection against all types of disasters, please follow the 3-2-1 rule and create real, independent backups to a different storage device using backup job.

**Backup** 1

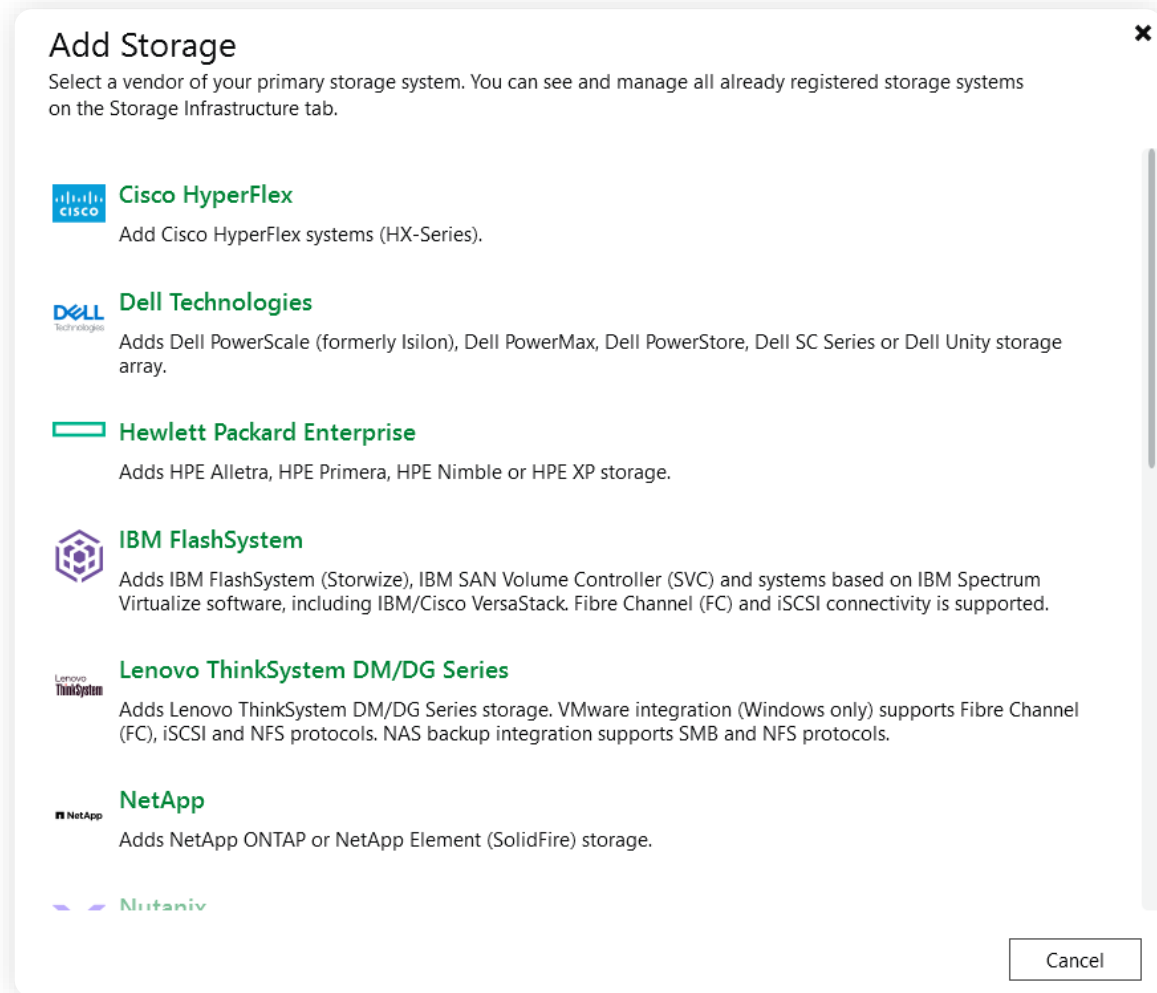
Enterprise Plus edition enables backup of virtual machines, physical servers and file shares directly from primary storage snapshots.

This functionality puts your storage array capabilities to work, allowing for improved recovery point objectives (RPO) while greatly reducing impact from backup activities on the production environment.

Home Inventory Backup Infrastructure Storage Infrastructure Tape Infrastructure

# Storage Integration

## Como configurar?



## Siga o assistente para adicionar o Storage desejado:

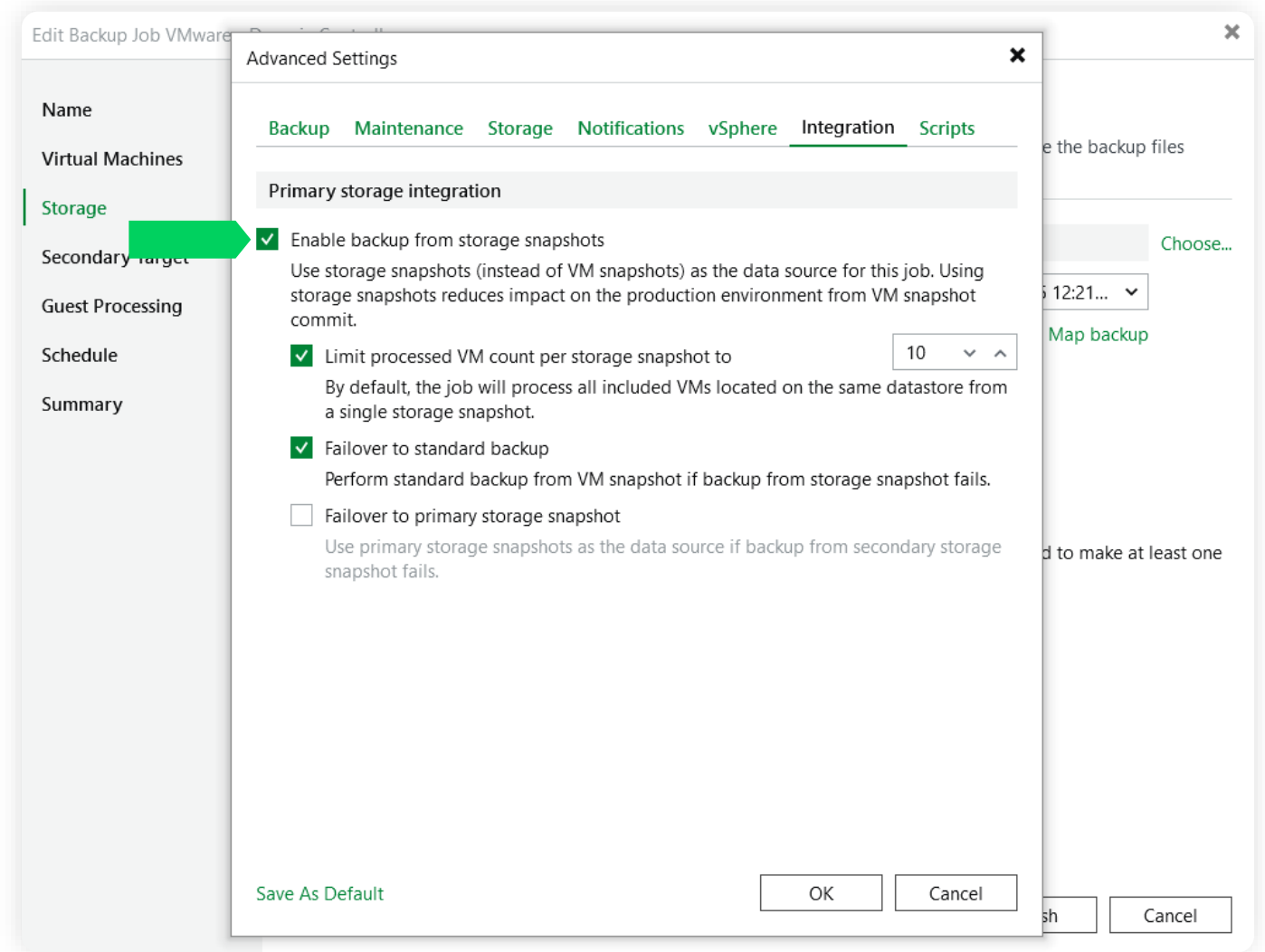
- Escolha o tipo de Storage
- Conecte-se usando DNS or IP
- Escolha a Role
  - Block ou file para VMware
  - Veeam Agent for Windows
  - NAS filer
- Adicionar credenciais para acessar o armazenamento
- Escolha os protocolos (FC/NFS/iSCSI)

# Storage Integration

A aba **Integração** nas configurações avançadas do Job de backup permite que você decida utilizar ou não a tecnologia de Backup via Storage Snapshot para criar o backup da VM. Esta opção vem ativada por padrão.

O backup a partir de Storage Snapshots permite que você aproveite snapshots do para processamento de dados da VM reduzindo throughput.

A tecnologia **melhora os RPOs e reduz o impacto das atividades de backup** sobre o ambiente de produção.



Tape

# Tape

Veeam Backup & Replication suporta operações nativas com fita.

**Dispositivos Suportados:** Linear Tape-Open (LTO3 – LTO9) e IBM 3592 (TS1160 & TS1170) Libraries.

**Objetivo:** arquivamento de dados e/ou requisitos de conformidade de longo prazo.

**Estratégia:** segue o princípio de backup '3-2-1': 3 cópias, 2 tipos de mídia, 1 localização externa.

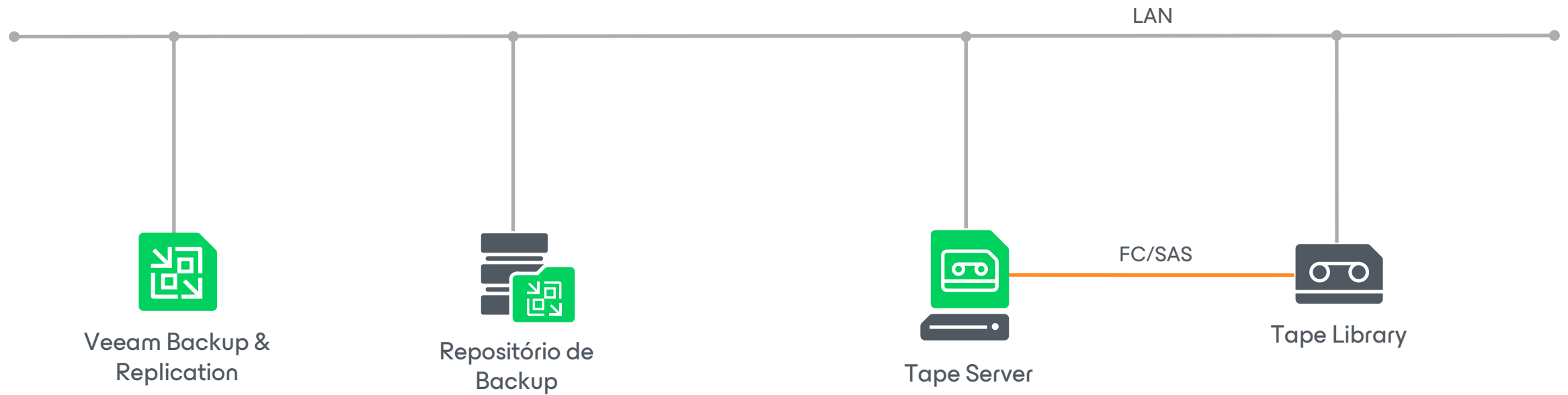
## Tipos de Dados Suportados para Archive:

- VM backups
- Veeam Agent Backups
- Repositórios inteiros de Backup, incluindo Repositórios Hardened Linux
- Unstructured data:
  - Storage Device Volumes via NDMP
  - SMB & NFS file shares
  - Object Storage



# Tape

## Visão geral da infraestrutura



\* O Veeam Backup & Replication Server pode também ser utilizado como Tape Server

# WAN Accelerator

The background features a gradient from dark blue on the left to light green on the right. Overlaid on this are several thin, white, wavy lines that create a sense of motion and depth, resembling a stylized landscape or data flow.

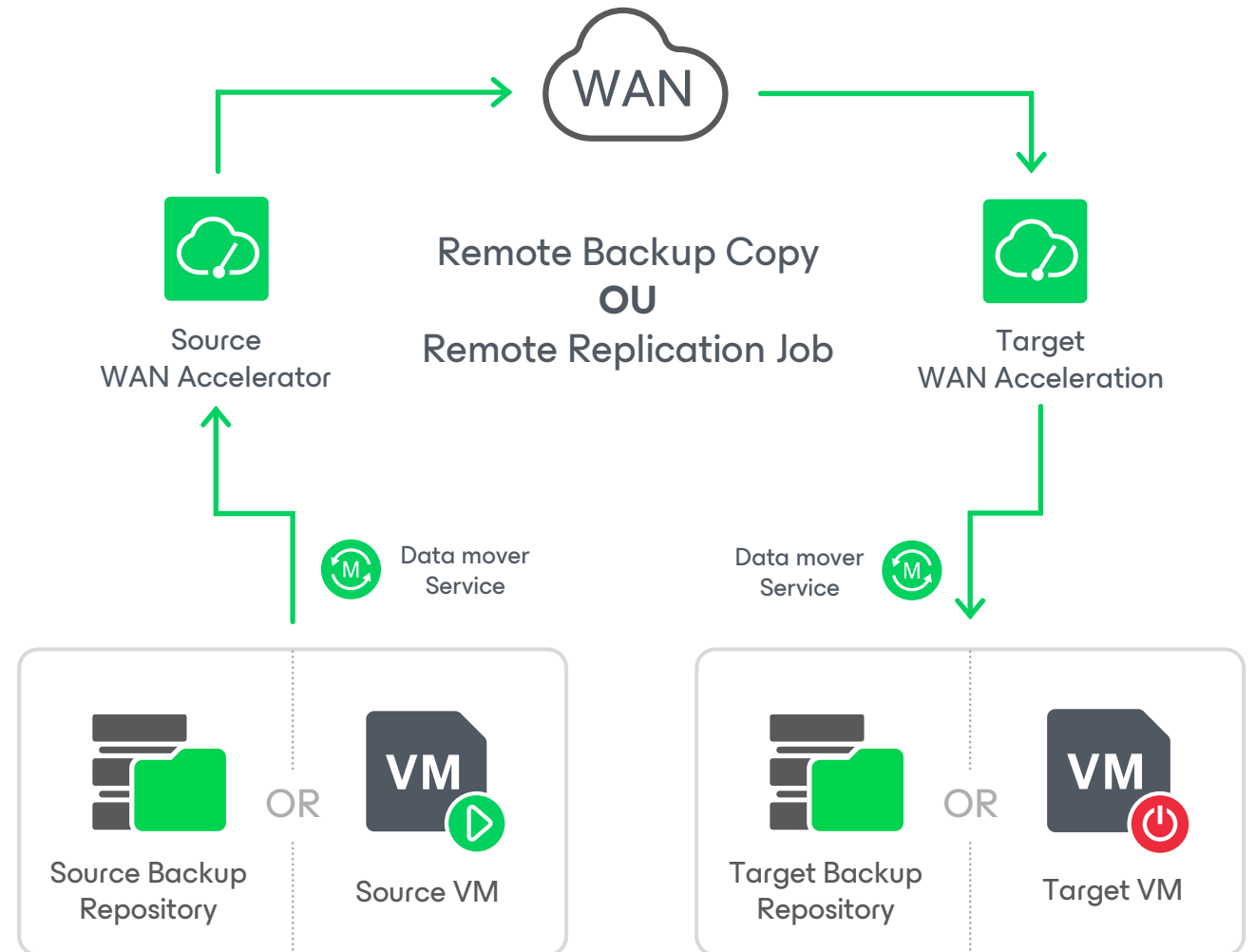
# WAN Accelerator

Veeam Backup & Replication oferece a tecnologia de aceleração WAN que combina:

- Compressão de tráfego de rede
- Upload multi-streaming
- Dedup global de dados
- Dedup de tamanho variável no bloco

Essa combinação de tecnologias reduz o volume de dados transferidos, o que ajuda a transportar dados mais rapidamente.

- **High Bandwidth Mode** é projetado para conexões WAN acima de 100Mbps.
- **Low Bandwidth Mode** é projetado para conexões WAN abaixo de 100Mbps.



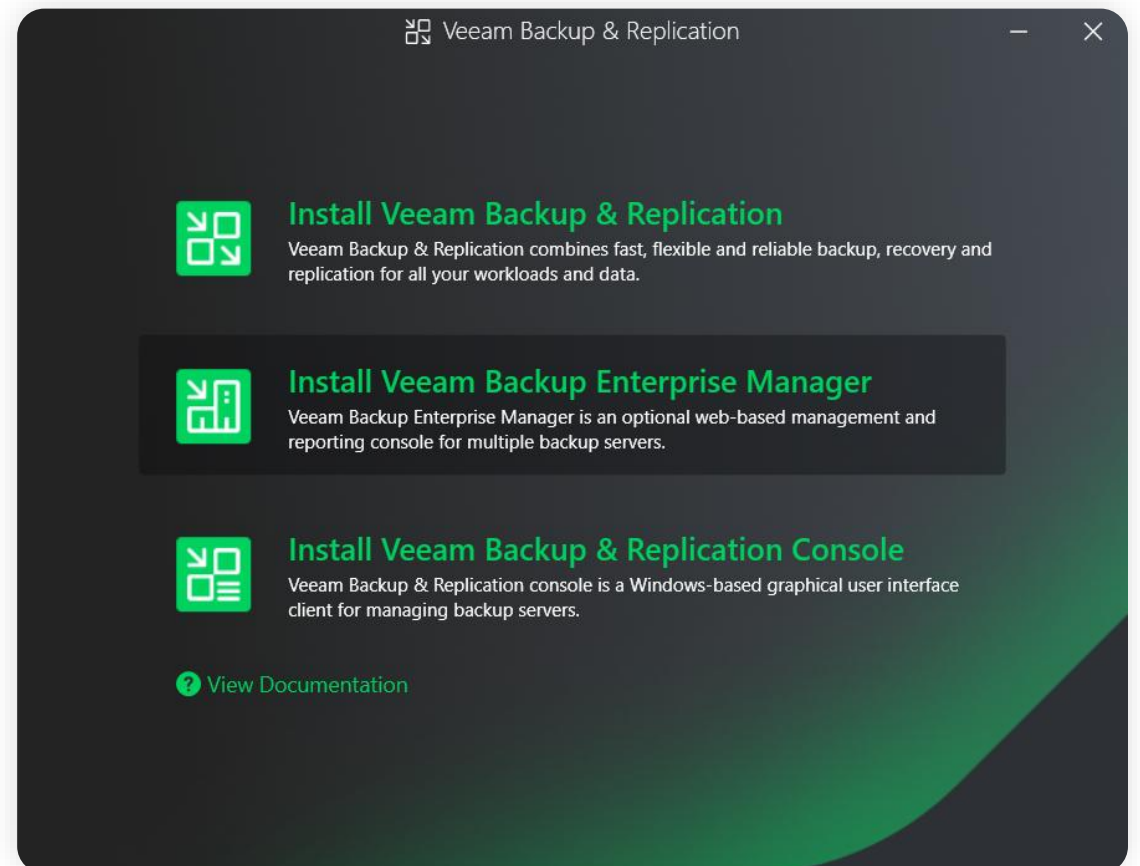
# Enterprise Manager

The background features a gradient from dark blue on the left to light green on the right. Overlaid on this are several sets of thin, white, wavy lines that create a sense of motion and depth, resembling a stylized landscape or data flow.

# Veeam Enterprise Manager

## Instalação

Veeam Enterprise Manager está incluído na mesma ISO que o Veeam Backup & Replication.



# Veeam Enterprise Manager



## Instalação

Veeam Backup Enterprise Manager

### License

Provide license file for Veeam Backup Enterprise Manager.

Select license provisioning method:

 [Sign in with Veeam](#) |  [Browse to local license file](#)

License details:  
Not selected


- Update license automatically (enables usage reporting)  
Download and install new license automatically when you renew or expand your contract. This requires sending the license ID, the installation ID, and workload usage counters to Veeam servers periodically. Successful usage reporting doubles the number of workloads you can exceed your installed license by.
- Receive proactive support (enables usage reporting)  
Proactive technical support service require sharing anonymized backup infrastructure telemetry with Veeam. For more information on what is being shared, please refer to the User Guide.

[Back](#) [Next](#) [Cancel](#)

Veeam Backup Enterprise Manager

### System Configuration Check

System is being verified for potential installation problems.

 To finalize required components installation, system reboot is required. Installation process will continue automatically.

Requirement	Status
Microsoft .NET Framework 4.7.2	✓ Passed
Microsoft Visual C++ 2015-2019 Redistributable	⚠ Reboot required
Microsoft System CLR Types for SQL Server 2014	✓ Passed
IIS URL Rewrite Module 2	✓ Passed
Microsoft IIS	✓ Passed
Default Document Component	✓ Passed
Directory Browsing Component	✓ Passed
HTTP Errors Component	✓ Passed
Static Content Component	✓ Passed
Windows Authentication Component	✓ Passed
WebSocket Protocol Component	✓ Passed
ASP.NET 4.5 Component	✓ Passed

[Back](#) [Reboot](#) [Cancel](#)

# Veeam Enterprise Manager

## Instalação

Veeam Backup Enterprise Manager

### Ready to Install

Installation will begin with the following settings.

Installation folder:	C:\Program Files\Veeam\Backup and Replication
Guest catalog folder:	C:\VBRCatalog
Service account:	LOCAL SYSTEM
Database engine:	PostgreSQL
Database name:	VeeamBackupReporting
Database server:	DC-01:5432
Catalog service port:	9393
Service port:	9394
Web UI ports:	9080 (HTTP), 9443 (HTTPS)
REST API service ports:	9399 (HTTP), 9398 (HTTPS)
Certificate:	Self-signed certificate will be generated automatically
Check for product updates:	Automatically

Customize Settings

Back **Install** Cancel

Veeam Backup Enterprise Manager

### Database

Choose a database engine and an instance for Veeam Backup Enterprise Manager configuration data.

Use following database engine: PostgreSQL

Install new instance

Use existing instance (HOSTNAME:PORT)

DC-01:5432

Database name: VeeamBackupReporting

Connect to PostgreSQL server using:

Windows authentication credentials of the backup service account

Native authentication using the following credentials:

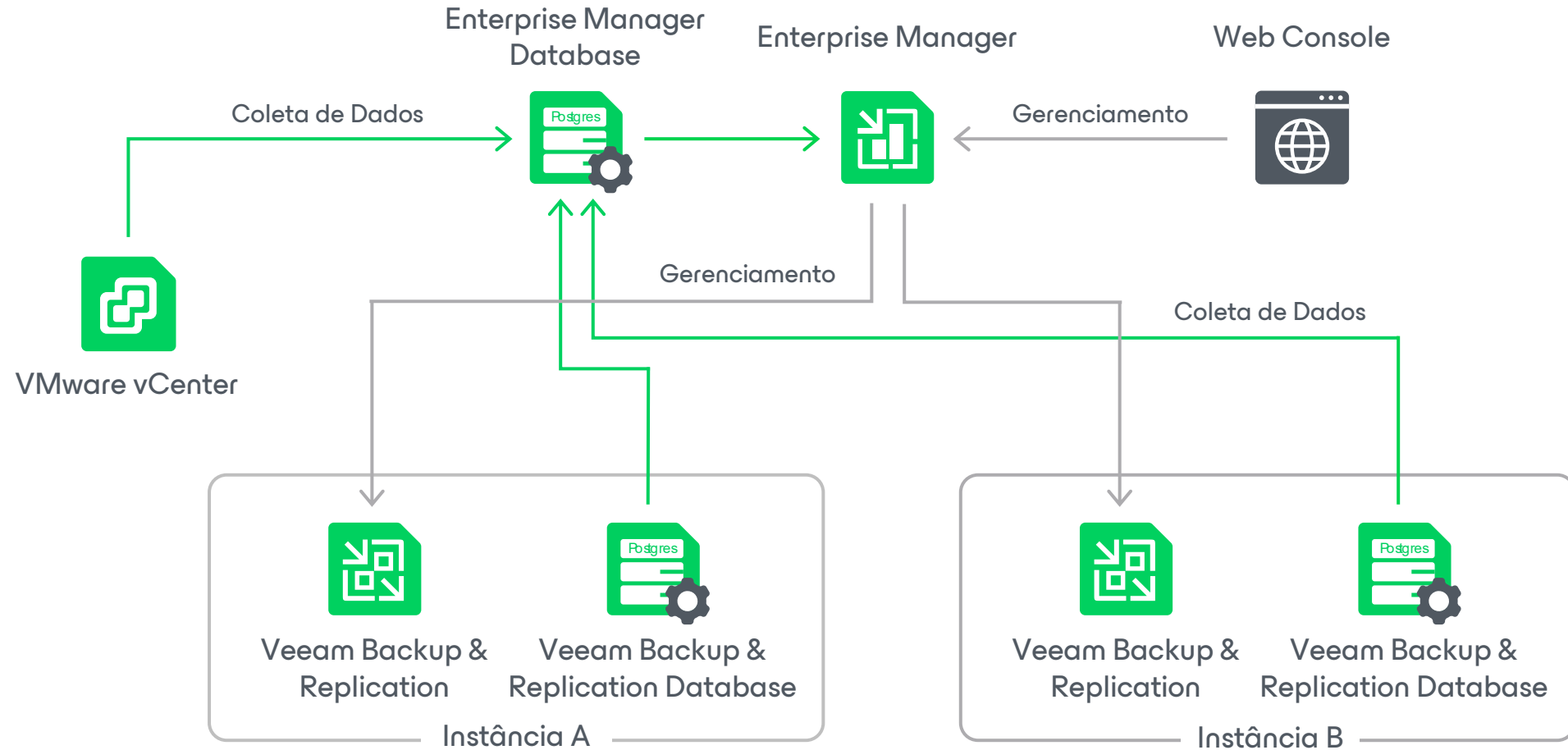
Username: postgres

Password:

Back **Next** Cancel

# Veeam Enterprise Manager

Exemplo de implantação (Conexão Lógica)



# Veeam Enterprise Manager

## Funcionalidades

Dashboard Reports Jobs Policies Unstructured Data Machines Files **Items** Requests

DEMOCENTER Configuration

Mailbox Items SQL Database Oracle Database PostgreSQL Instance

Username:  
Enter username

Accounts:  
Available accounts will be shown after specifying a username

History

Restore point:  
No restore point selected

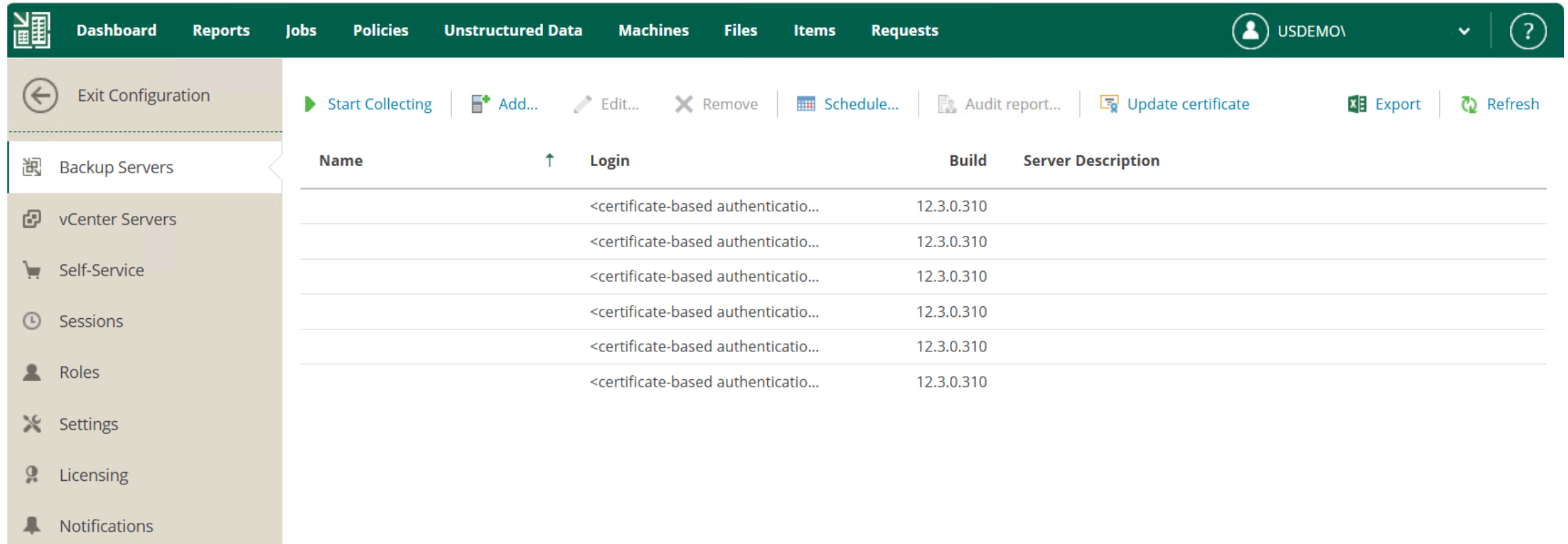
Items:  
 Mail  
 Calendar  
 Contacts

Only restore missing items created or received Yesterday

Restore

# Veeam Enterprise Manager

## Configuração

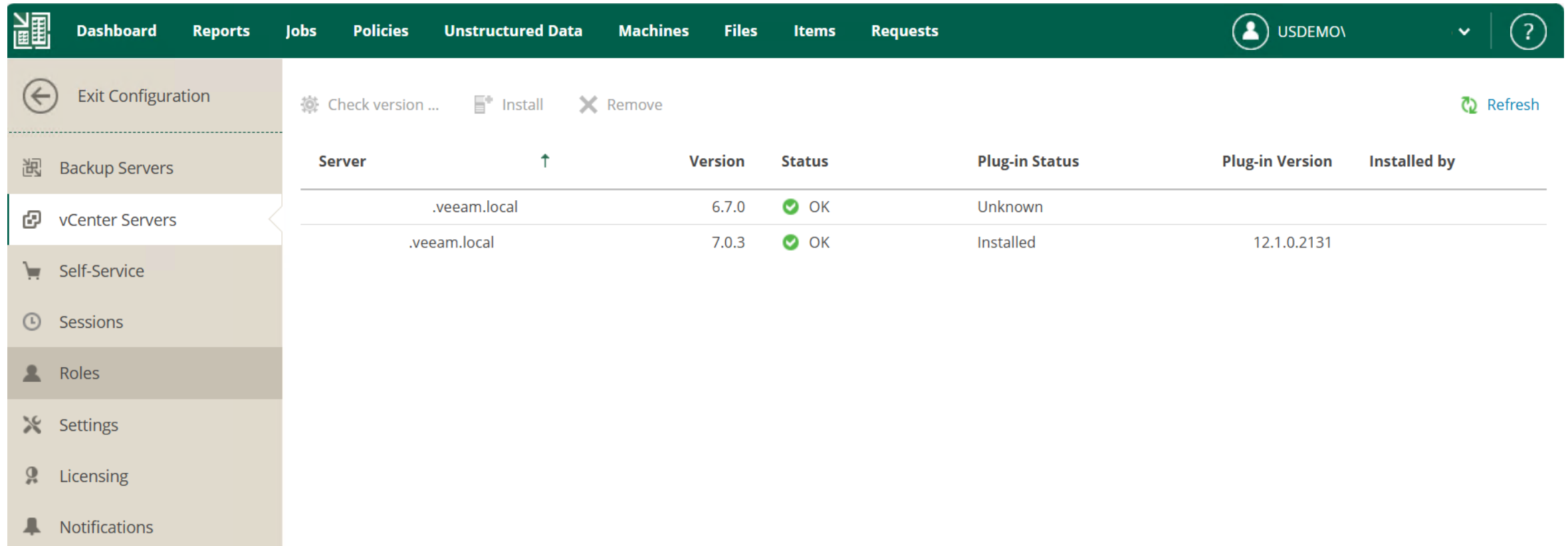


The screenshot displays the Veeam Enterprise Manager interface in the Configuration section. The top navigation bar includes Dashboard, Reports, Jobs, Policies, Unstructured Data, Machines, Files, Items, and Requests. The user is logged in as USDEMOV. The left sidebar shows the Configuration menu with options: Exit Configuration, Backup Servers (highlighted with a green arrow), vCenter Servers, Self-Service, Sessions, Roles, Settings, Licensing, and Notifications. The main content area shows a table of Backup Servers with columns for Name, Login, Build, and Server Description. The table contains six rows of data, all with the same Build number (12.3.0.310). Above the table are several action buttons: Start Collecting, Add..., Edit..., Remove, Schedule..., Audit report..., Update certificate, Export, and Refresh.

Name	Login	Build	Server Description
	<certificate-based authenticatio...	12.3.0.310	
	<certificate-based authenticatio...	12.3.0.310	
	<certificate-based authenticatio...	12.3.0.310	
	<certificate-based authenticatio...	12.3.0.310	
	<certificate-based authenticatio...	12.3.0.310	
	<certificate-based authenticatio...	12.3.0.310	

# Veeam Enterprise Manager

## Configuração



The screenshot displays the Veeam Enterprise Manager interface. The top navigation bar includes Dashboard, Reports, Jobs, Policies, Unstructured Data, Machines, Files, Items, and Requests. The user is logged in as USDEMO\ and a help icon is visible. The left sidebar contains navigation options: Exit Configuration, Backup Servers, vCenter Servers (highlighted with a green arrow), Self-Service, Sessions, Roles, Settings, Licensing, and Notifications. The main content area shows a table of Backup Servers with columns for Server, Version, Status, Plug-in Status, Plug-in Version, and Installed by. The table contains two entries for .veeam.local servers, both with OK status. Action buttons for Check version, Install, and Remove are present at the top of the table, along with a Refresh button.

Server	Version	Status	Plug-in Status	Plug-in Version	Installed by
.veeam.local	6.7.0	✓ OK	Unknown		
.veeam.local	7.0.3	✓ OK	Installed	12.1.0.2131	

# Veeam Enterprise Manager

## Configuração

The screenshot shows the Veeam Enterprise Manager configuration interface. The top navigation bar includes Dashboard, Reports, Jobs, Policies, Unstructured Data, Machines, Files, Items, and Requests. The user is logged in as USDEMO\ and the current view is for vSphere accounts. The left sidebar contains navigation options: Exit Configuration, Backup Servers, vCenter Servers, Self-Service (highlighted with a green arrow), Sessions, Roles, Settings, Licensing, and Notifications. The main content area shows a search bar for account names, a filter for Account Types (All), and action buttons for Add, Edit, Remove, and Delegation Mode. Below these are buttons for Export and Refresh. A table displays the account configuration:

Account	Repository	Priority	Quota	Per-user	Used
	Local Repository - REFS (...)	Normal	100 GB	No	0

# Veeam Enterprise Manager

## Configuração

The screenshot displays the Veeam Enterprise Manager configuration interface. The top navigation bar includes tabs for Dashboard, Reports, Jobs, Policies, Unstructured Data, Machines, Files, Items, and Requests. The user is logged in as USDEMO. The left sidebar shows the configuration menu with 'Roles' selected. The main area shows a list of accounts with columns for Account and Role. A green arrow points to the 'Add...' button in the account list. An 'Add Role' dialog box is open, showing the 'Account type' dropdown set to 'User' and the 'Role' dropdown set to 'Portal Administrator'. A second 'Add Role' dialog box is also visible, showing the 'Account type' dropdown set to 'Group' and the 'Role' dropdown set to 'Portal Administrator'.

Dashboard Reports Jobs Policies Unstructured Data Machines Files Items Requests

USDEMO

Exit Configuration

Backup Servers

vCenter Servers

Self-Service

Sessions

Roles

Settings

Licensing

Notifications

Search by account name

Account Types (All)

Add... Edit... Remove Rebuild Roles

Export Refresh

Account

ATLBEM-01\R

BUILTIN\Adm

USDEMO\

USDEMO\

USDEMO\

USDEMO\

USDEMO\

Add Role

Account type: User

Account:

Role:

Add Role

Account type: Group

Account:

Role: Portal Administrator

Portal Administrator

Portal User

Restore Operator

# Veeam Enterprise Manager

## Configuração

Dashboard Reports Jobs **Licenses** Unstructured Data Machines Files Items Requests DEMOCENTER

Exit Configuration

Backup Servers

vCenter Servers

Self-Service

Sessions

Roles

Settings

**Licensing**

Notifications

About

Summary Instances

Details Report

Install license

License edition: Enterprise Plus  
License is valid. Period: 208 days

**hq-vbr1.demolab.local (46 instances)**

**Virtual Machines (22 instances)**

Name	Instances	Type	Job name	Last processed
demo-linuxvm101	1	vSphere	VMware - Backup from 3PAR Snapshot	01/08/2024
demo-linuxvm102	1	vSphere	VMware - Backup from IBM Snapshot	01/08/2024
demo-linuxvm103	1	vSphere	VMware - Backup from NetApp Snapshot	01/08/2024
demo-linuxvm107	1	vSphere	VMware - Backup from VNX Snapshot	01/08/2024
demo-linuxvm109	1	vSphere	VMware - Backup from ETERNUS Snapshot	01/08/2024
demo-sql106	1	vSphere	VMware - Backup from Pure Snapshot	01/08/2024
demo-winvm101	1	vSphere	VMware - Backup from 3PAR Snapshot	01/08/2024
demo-winvm102	1	vSphere	VMware - Backup from IBM Snapshot	01/08/2024
demo-winvm103	1	vSphere	VMware - Backup from NetApp Snapshot	01/08/2024
demo-winvm105	1	vSphere	VMware - Backup from Nimble Snapshot	01/08/2024
demo-winvm106	1	vSphere	VMware - Backup from Pure Snapshot	01/08/2024
demo-winvm107	1	vSphere	VMware - Backup from VNX Snapshot	01/08/2024
demo-winvm108	1	vSphere	VMware - Backup from VSAN	01/08/2024
demo-winvm109	1	vSphere	VMware - Backup from ETERNUS Snapshot	01/08/2024
exch1	1	vSphere	VMware - Backup to XFS Repository	01/08/2024
fc1	1	vSphere	VMware - Backup to XFS Repository	01/08/2024



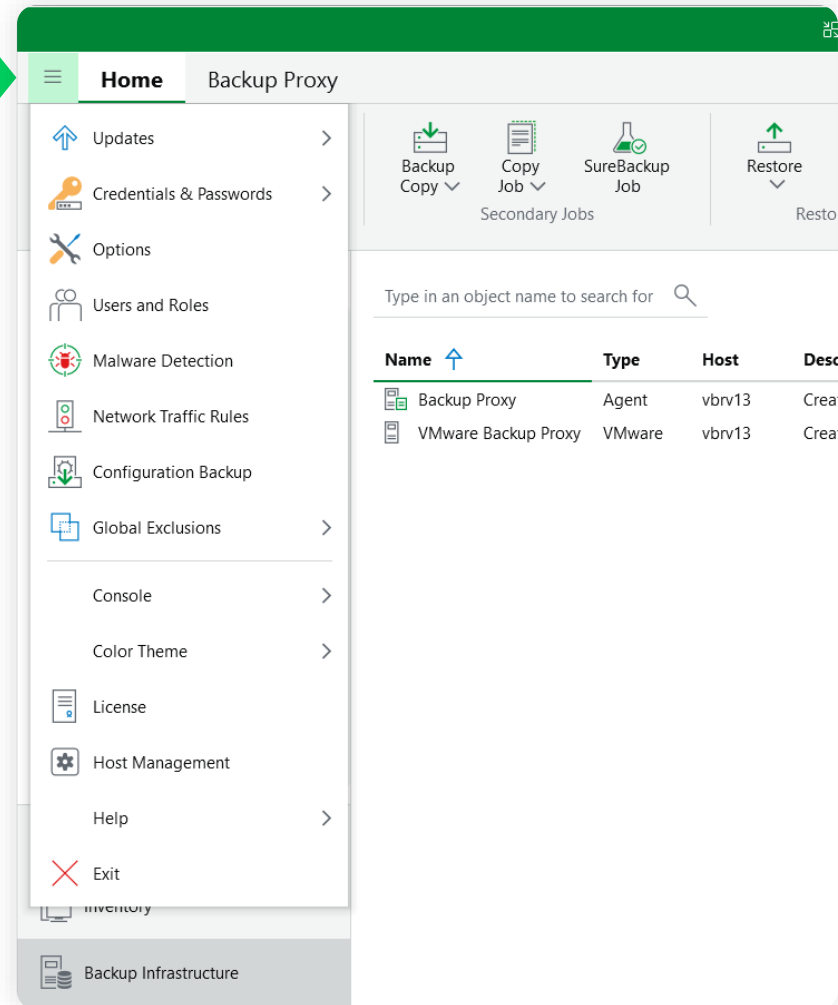
**Vamos fazer + uma  
pausa de 5 minutos**

# Menu Principal

The background features a gradient from dark blue on the left to light green on the right. Overlaid on this are several sets of thin, white, wavy lines that create a sense of motion and depth, resembling a stylized landscape or abstract pattern.

# Menu Principal

## Credentials & Passwords

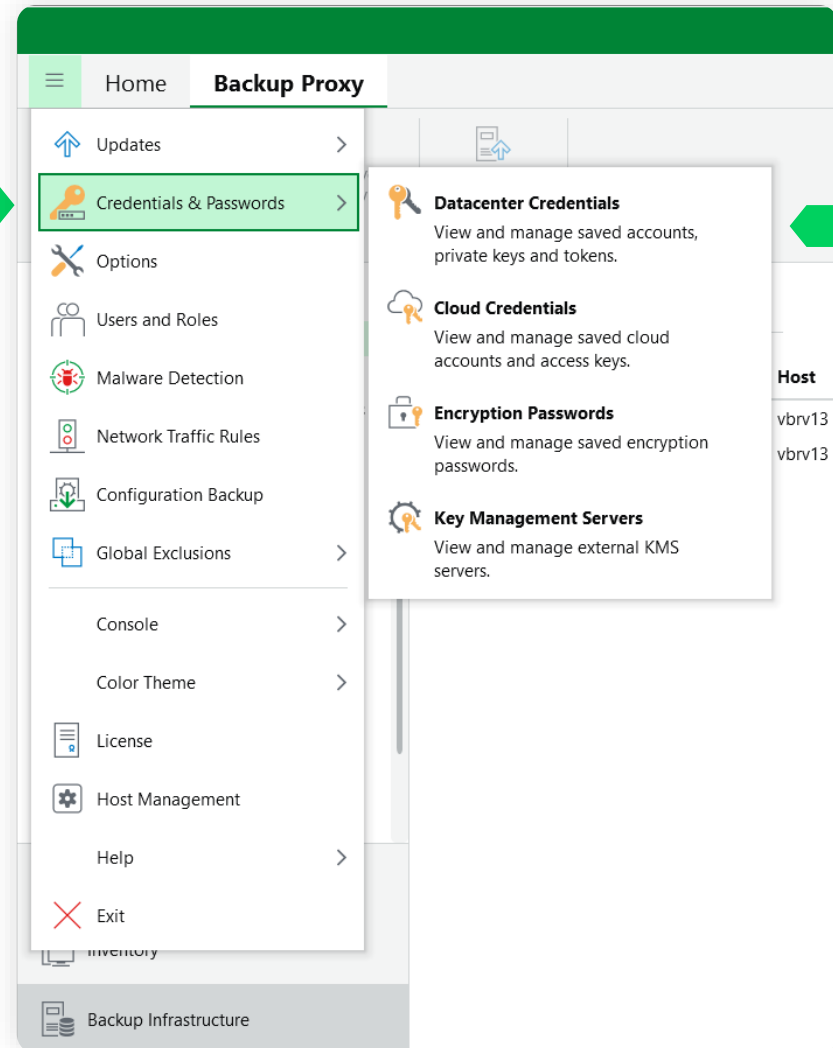


The screenshot shows the Veeam Backup Proxy main menu. A green arrow with the number '1' points to the 'Home' tab. The 'Credentials & Passwords' menu item is highlighted in green. The main content area shows a search bar and a table of backup proxy jobs.

Name	Type	Host	Desc
Backup Proxy	Agent	vbrv13	Cre
VMware Backup Proxy	VMware	vbrv13	Cre

# Menu Principal

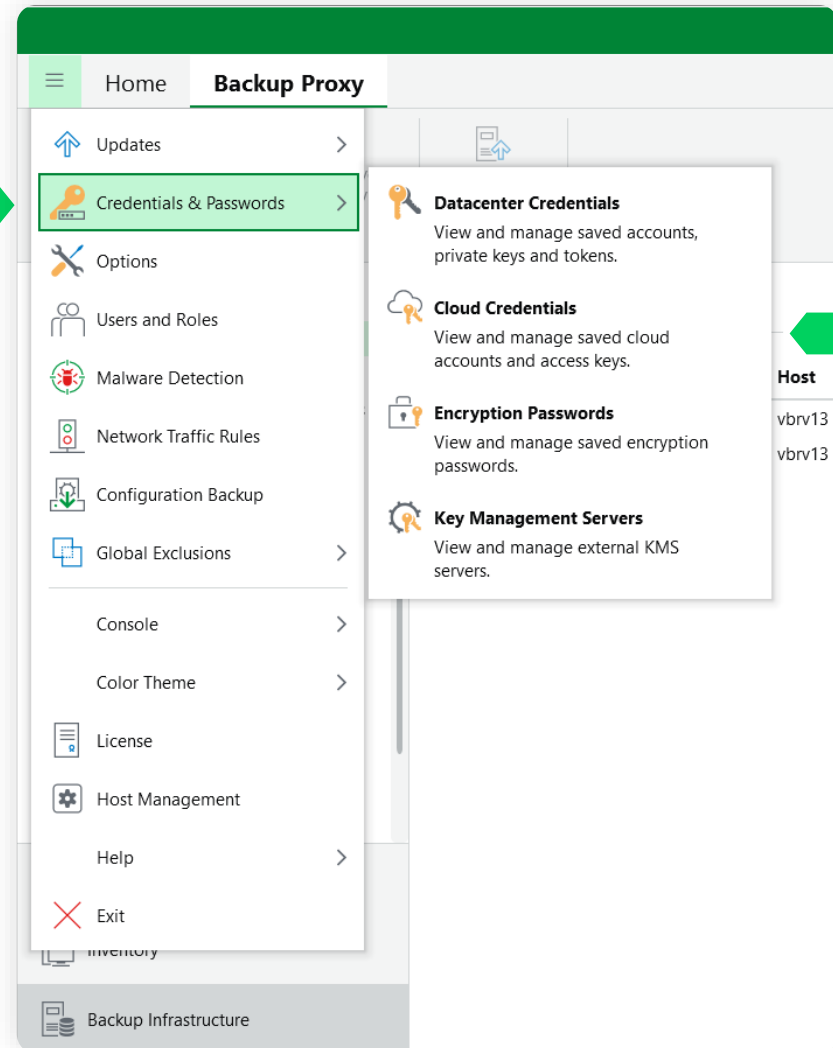
## Credentials & Passwords



Você pode usar essa opção para criar e manter uma lista de registros de credenciais que pretende usar para se conectar a componentes na infraestrutura de backup.

# Menu Principal

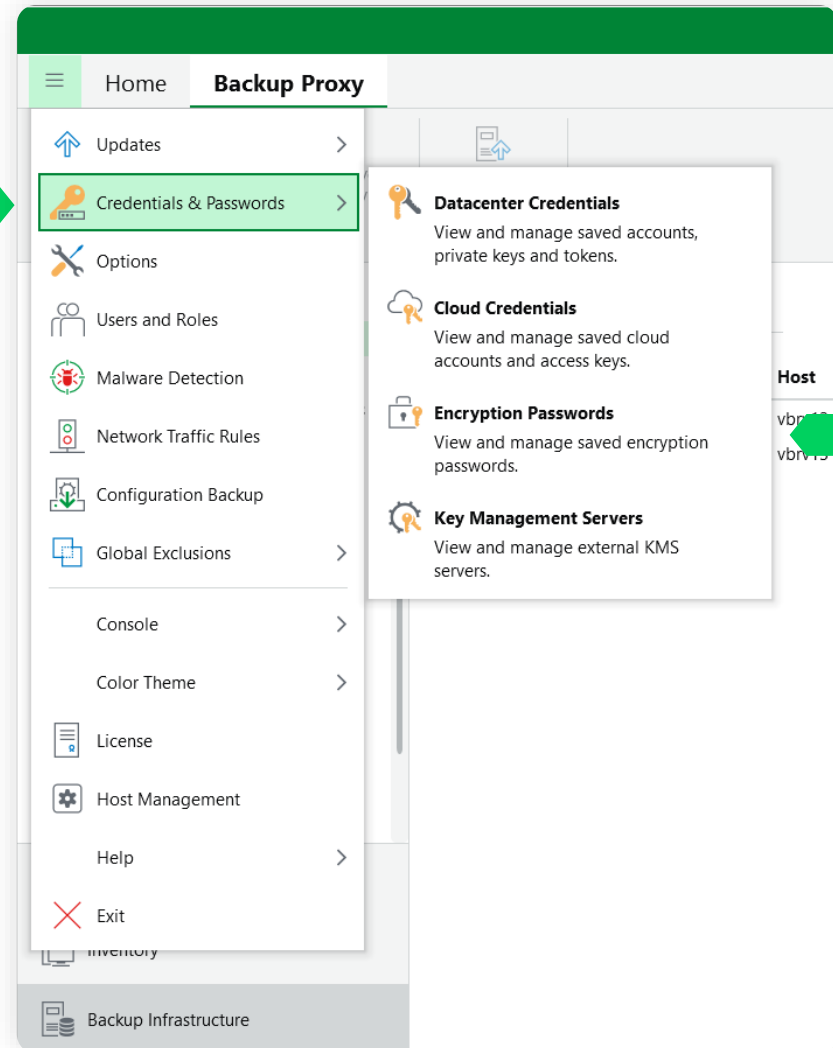
## Credentials & Passwords



Você pode usar essa opção para criar e manter uma lista de registros de credenciais que pretende usar para se conectar a serviços em nuvem.

# Menu Principal

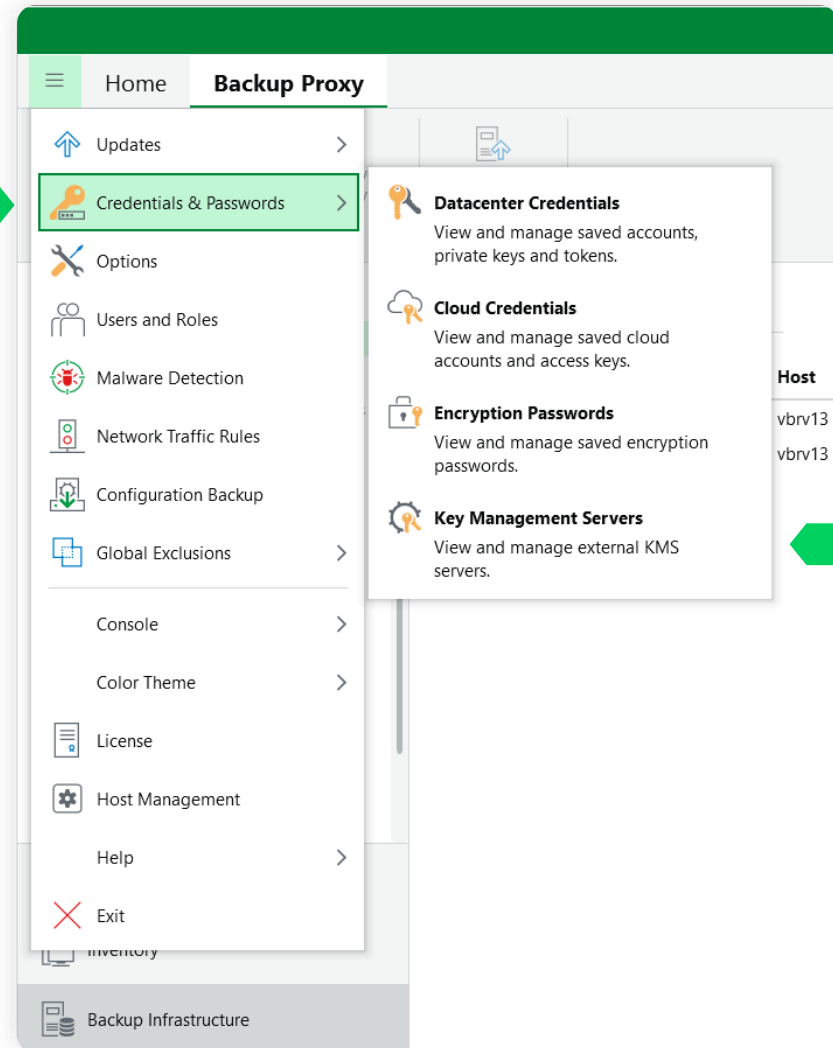
## Credentials & Passwords



Você pode usar essa opção para criar e manter uma lista de senhas que pretende usar para criptografia de dados.

# Menu Principal

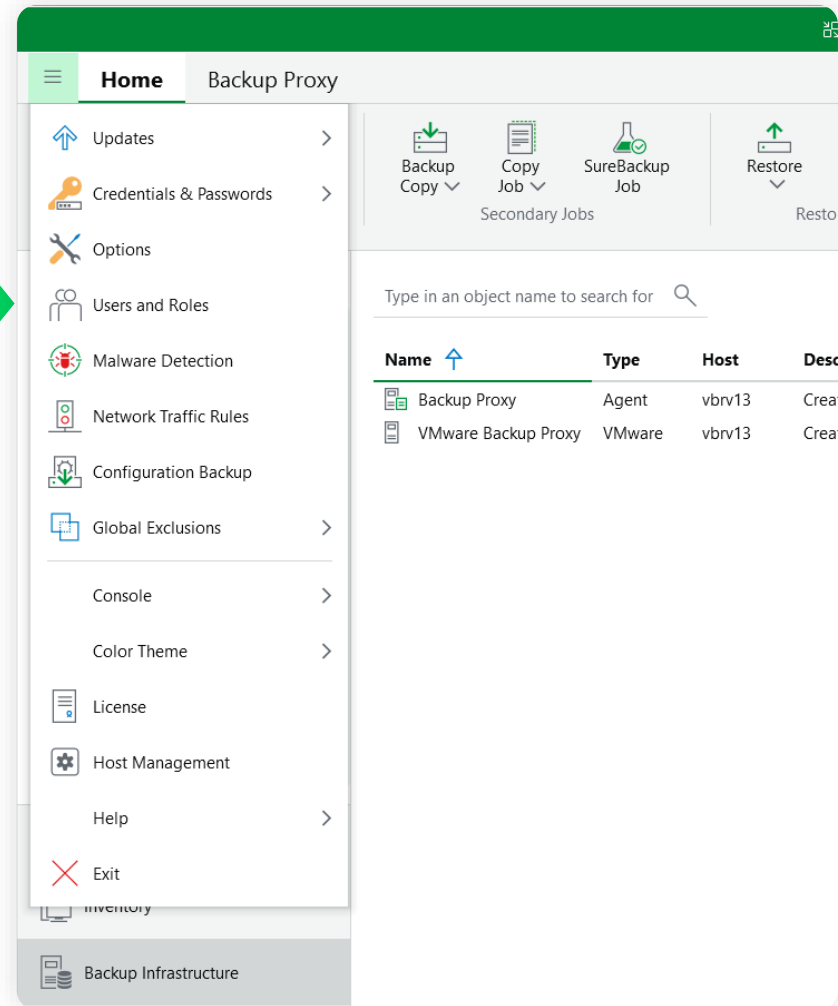
## Credentials & Passwords



Você pode usar essa opção para adicionar servidores externos de KMS e usar chaves KMS.

# Menu Principal

## Users & Roles

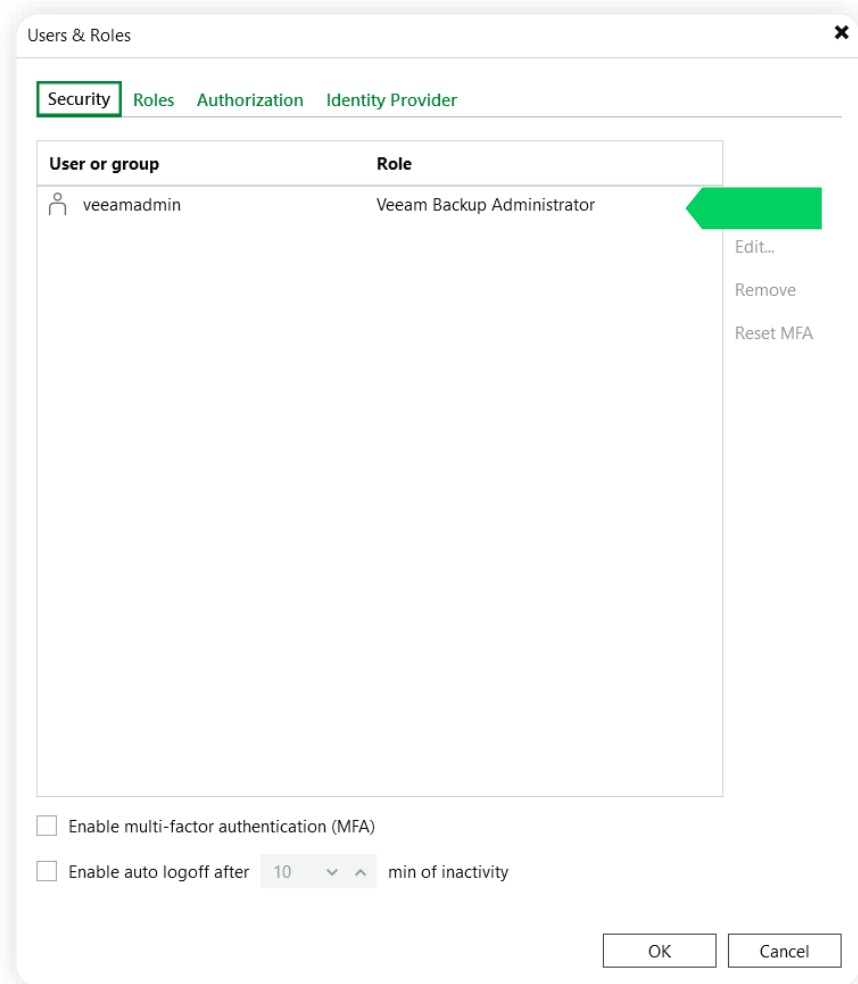


The screenshot shows the Veeam Backup Proxy console interface. The left-hand navigation pane is open, and the 'Users and Roles' menu item is highlighted with a green arrow and the number '2'. The main content area displays a table of backup proxy agents.

Name	Type	Host	Desc
Backup Proxy	Agent	vbrv13	Crea
VMware Backup Proxy	VMware	vbrv13	Crea

# Menu Principal

## Users & Roles



Uma lista de todos os usuários e grupos de usuários com regras específicas podem ser verificada; as regras definem as operações que podem ser realizadas no Veeam Backup & Replication.

# Menu Principal

## Users & Roles

Users & Roles

Security Roles Authorization Identity Provider

User or group	Role
veeamadmin	Veeam Backup Administrator

Add...  
Edit...  
Remove  
Reset MFA

Enable multi-factor authentication (MFA)

Enable auto logoff after 10 min of inactivity

OK Cancel

Você pode adicionar novos usuários ou grupos de usuários.

# Menu Principal

## Users & Roles

Users & Roles

Security Roles Authorization Identity Provider

User or group	Role
veeamadmin	Veeam Backup Administrator

Add... Edit... Remove Reset MFA

Add user

Add a user or group to grant a role. Local users can be managed in the Users & Roles section of the Veeam Host Management console.

Type: User

Name: User

Role: Veeam Backup Administrator

This is a service account (disables multi-factor authentication)

OK Cancel

Enable multi-factor authentication (MFA)

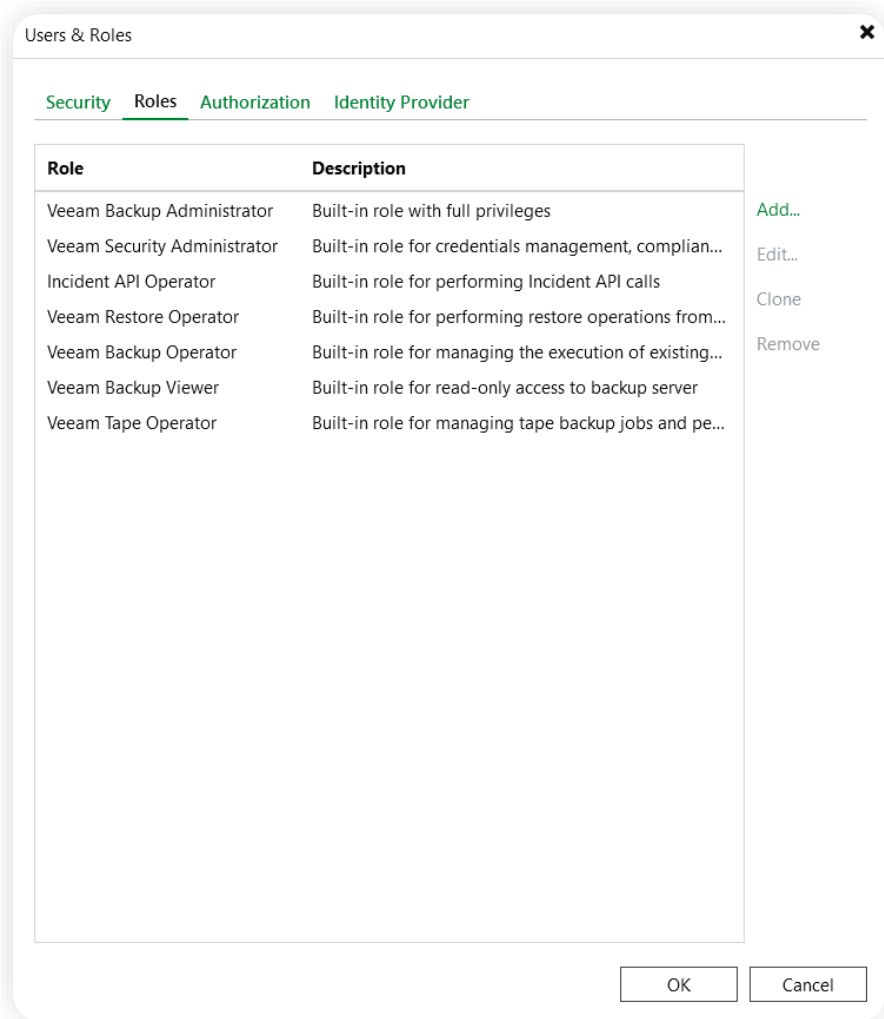
Enable auto logoff after 10 min of inactivity

OK Cancel

Você pode adicionar o usuário ou grupo de usuários especificando-o no formato DOMAIN\USERNAME ou navegue por ele.

# Menu Principal

## Users & Roles



Editar um usuário ou grupo de usuários existente permitirá a alteração do formato DOMAIN/USERNAME e as regras.

Quando se trata de regras, há cinco opções que podemos escolher:

- **Restore operator** – O que permite que processos de restauração sejam realizados pelo usuário/grupo de usuários específico
- **Backup operator** – responsável por iniciar e parar jobs de backup, além de exportar, copiar backups e criar backups com VeeamZIP
- **Backup administrator** – capaz de realizar todas as atividades administrativas e com acesso total a tudo que for relacionado à infraestrutura de backup
- **Tape operator** – responsável por qualquer operação de fita como iniciar e parar Tape Jobs
- **Backup viewer** – que tem acesso "somente leitura" ao console

# Menu Principal

## Users & Roles

The screenshot shows the 'Add New Role' dialog box with the following configuration:

- Name:** (empty)
- Inventory Scope:** (empty)
- Repository Scope:** (empty)
- Restore Permissions:** Define the restore permissions for this role.
  - Backup scope: Own backups and additional backups
  - Restore options: Limited restore options
- Restore Options:** Choose restore options available to this role:
  - All available restore options. This role will be able to use all available options when performing restores.
  - Only the following restore options:
    - Instant Recovery to VMware vSphere
    - Instant Recovery to Microsoft Hyper-V
    - Instant Disk Recovery
    - Instant file share recovery
    - Restore entire VM to VMware vSphere
    - Restore entire VM to Microsoft Hyper-V
    - Restore entire file share
    - Restore entire bucket
    - Restore virtual disks to VMware vSphere
    - Publish disks
    - Restore VM files

Navigation buttons: < Previous, Next >, Finish, Cancel.

### Controle de acesso a:

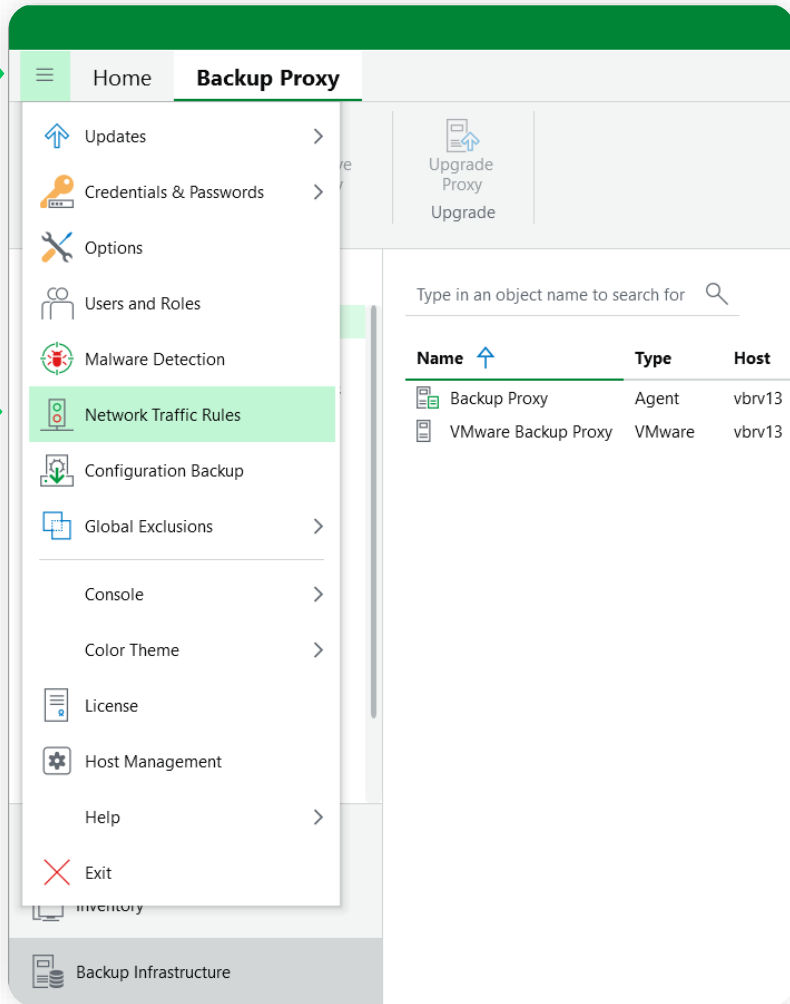
- Backup e/ou restore
- Repository
- Restore Operations
- Itens de Infraestrutura
- Remote Console UI options

### Workloads suportados:

- VMware
- Hyper-V
- Veeam Agents (VAW, VAL)
- Unstructured Data
- Database Plugins

# Menu Principal

## Global Network Rules



The screenshot shows the Veeam Backup Proxy main menu. The 'Backup Proxy' tab is active. The left sidebar contains the following items:

- Home
- Backup Proxy
- Updates
- Credentials & Passwords
- Options
- Users and Roles
- Malware Detection
- Network Traffic Rules** (highlighted)
- Configuration Backup
- Global Exclusions
- Console
- Color Theme
- License
- Host Management
- Help
- Exit
- Inventory
- Backup Infrastructure

The main content area shows a search bar and a table of objects:

Type in an object name to search for

Name	Type	Host
Backup Proxy	Agent	vbrv13
VMware Backup Proxy	VMware	vbrv13

# Menu Principal

## Global Network Rules

Global Network Traffic Rules ✕

Network traffic rules:

Name	Encryption	Throttling	Time period
Internet	Enabled	Disabled	

[Add...](#)  
[Edit...](#)  
[Remove](#)  
[Networks...](#)

Use multiple upload streams per job:  ▼ ▲

Improves job performance through better utilization of high-latency links. Disable this option if you are running a large amount of concurrent jobs, or for networking equipment compatibility purposes.

Por padrão, o Veeam Backup & Replication utiliza transferência de dados multithreaded para cada sessão de Job, da origem ao destino por meio de múltiplas conexões TCP/IP.

No entanto, se você agendar vários Jobs para rodar ao mesmo tempo, a carga na rede pode ser pesada. Se a capacidade da rede não for suficiente para suportar múltiplas conexões de transferência de dados, você pode desativar a transferência de dados multithread ou alterar o número de conexões TCP/IP.

# Menu Principal

## Global Network Rules

**Add New IPv4 Network Traffic Rule**

Name: Throttle default

Source IP address range: 192 . 168 . 0 . 1 to 192 . 168 . 0 . 255

Target IP address range: 192 . 168 . 0 . 1 to 192 . 168 . 0 . 255

All public IP addresses

Action:

Encrypt network traffic

Throttle network traffic

100 MB/s  Never throttle any restore activity

All the time

During the specified time periods only

AM PM

	All	None	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11
Sunday																										
Monday																										
Tuesday																										
Wednesday																										
Thursday																										
Friday																										
Saturday																										

Mark as:  Enabled  Disabled  Unthrottle to: 1 Mbps

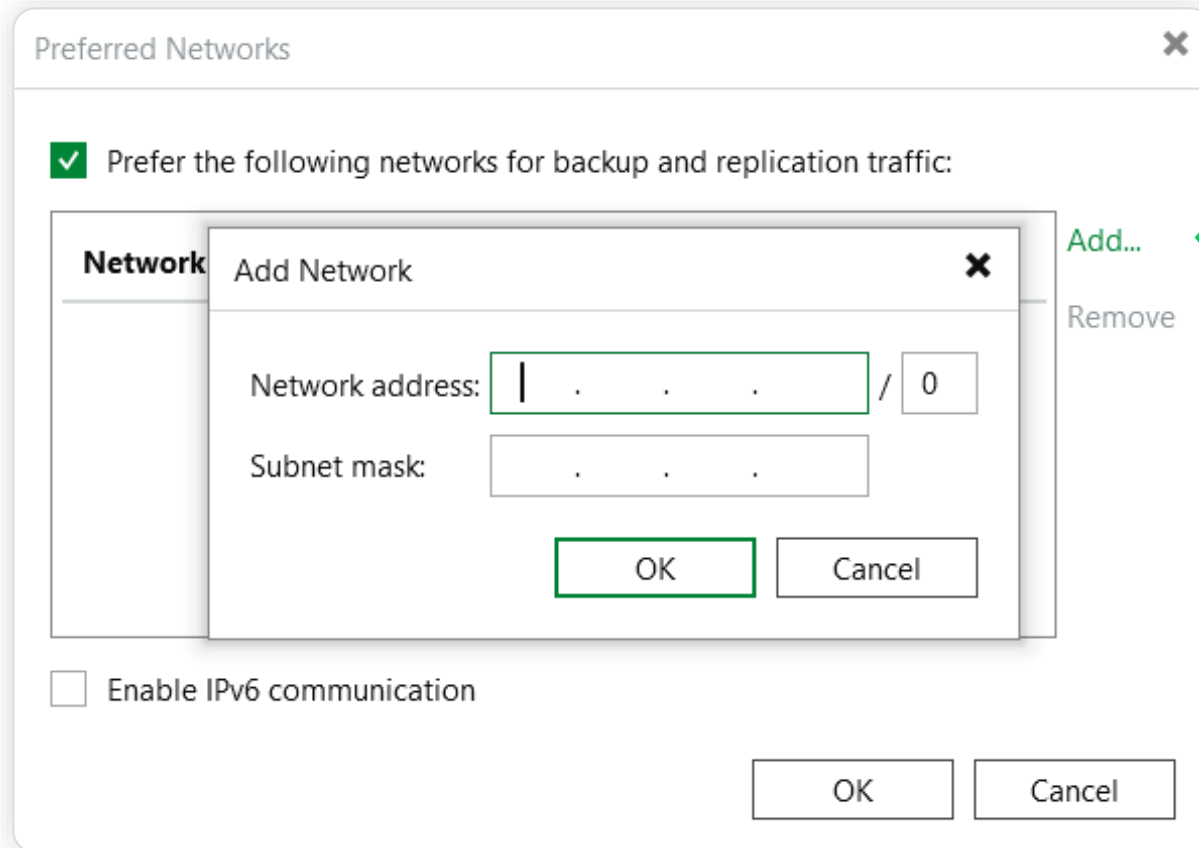
OK Cancel

Context menu options: Add..., IPv4 rule..., IPv6 rule..., Networks...

Você pode adicionar diferentes regras para IPv4 e 6 especificando o range, origem e destino, aplicando criptografia do tráfego de rede e/ou limitando-o durante períodos específicos.

# Menu Principal

## Global Network Rules



Também há a possibilidade de especificar a rede preferida para o tráfego de backup e replicação.

# Menu Principal

## VM Exclusions

The screenshot shows the main menu of the Veeam Backup Proxy interface. The 'Backup Proxy' tab is active. The 'Global Exclusions' menu item is highlighted with a green arrow and a circled '1'. A sub-menu is open, showing 'VM Exclusions' and 'Malware Exclusions'. 'VM Exclusions' is highlighted with a green arrow and a circled '2'. The background shows a table with columns 'Name', 'Type', and 'Host'.

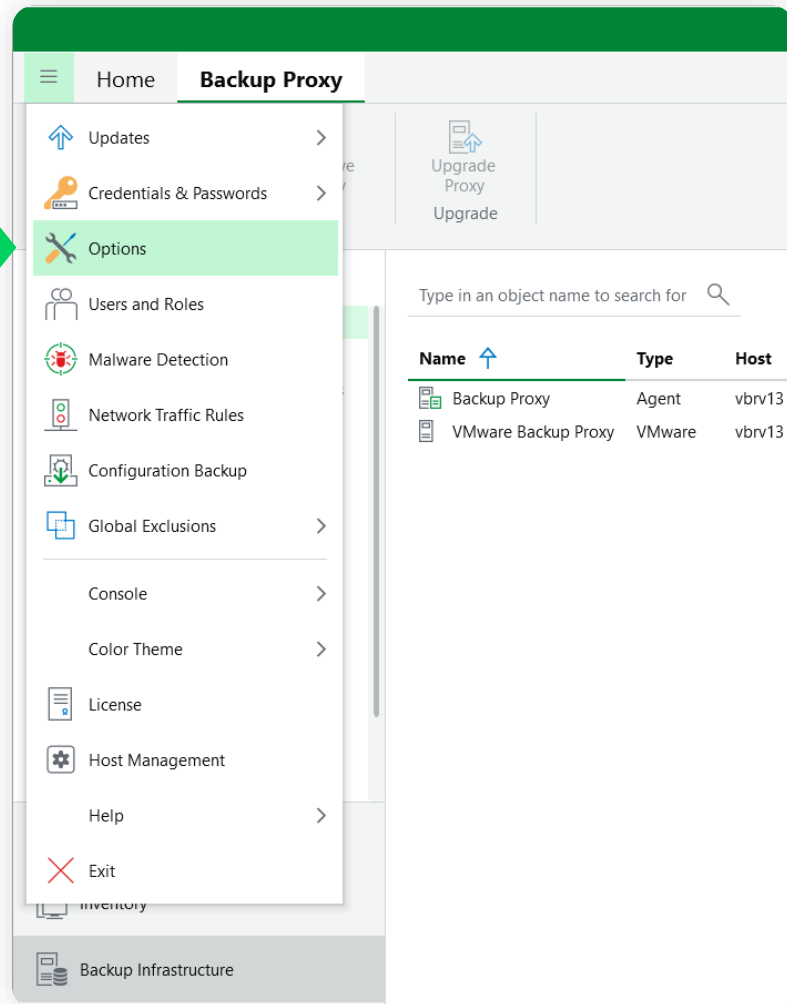
Name	Type	Host
Backup Proxy	Agent	vbrv13
VMware Backup Proxy	VMware	vbrv13

The 'VM Exclusions' dialog box is shown. It contains a text box with the following text: "Virtual machines specified in this list will never be processed, even if they are included in a job or a policy explicitly or via a container." Below this is a table with columns 'Name' and 'Note'. The first row is highlighted in green and contains 'MYSQL'. To the right of the table are three buttons: 'Add...', 'Remove', and 'Note...'. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

Name	Note
MYSQL	

# Menu Principal

## Options



The screenshot shows the Veeam Backup Proxy main menu. The 'Options' menu item is highlighted with a green bar and a green arrow pointing to it from the left, with the number '1' inside a circle. The menu items are: Updates, Credentials & Passwords, Options, Users and Roles, Malware Detection, Network Traffic Rules, Configuration Backup, Global Exclusions, Console, Color Theme, License, Host Management, Help, and Exit. The 'Backup Proxy' tab is active, and the main content area shows a search bar and a table of backup proxies.

Name	Type	Host
Backup Proxy	Agent	vbrv13
VMware Backup Proxy	VMware	vbrv13

# Menu Principal

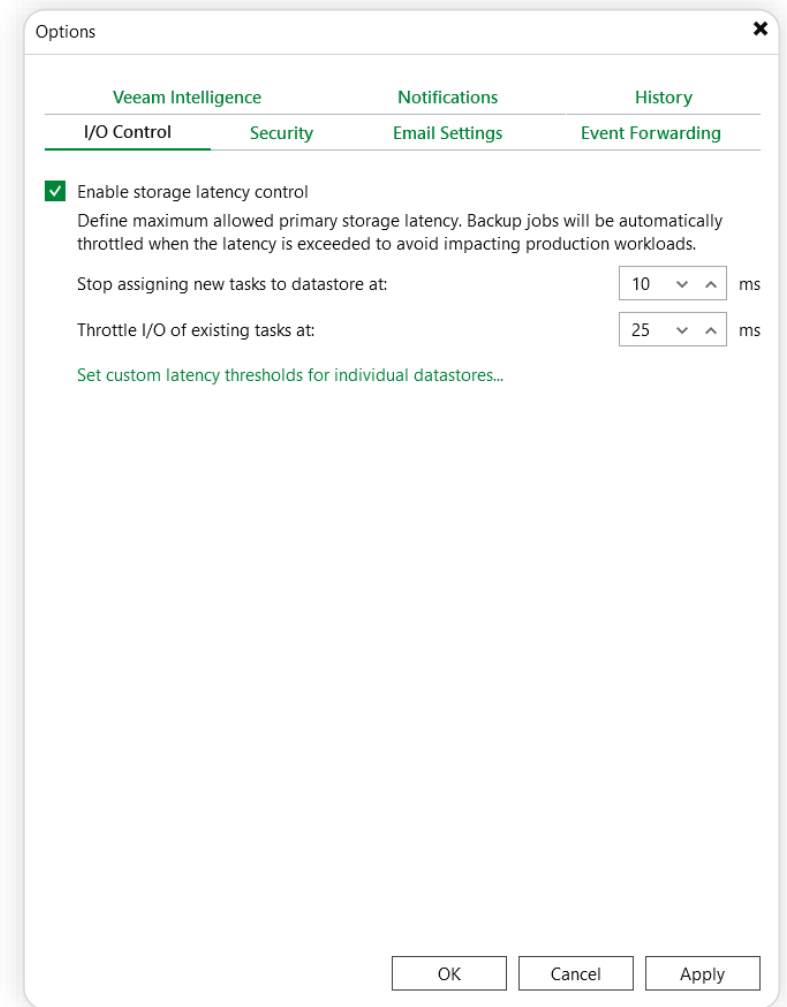
## I/O Control.

Quando o controle de latência de Storage está ativado, o Veeam Backup & Replication monitora a latência de leitura de armazenamento em datastores de produção durante atividades de backup e restore. Para monitorar a latência de armazenamento, o Veeam Backup & Replication utiliza métricas em tempo real do hypervisor onde as VMs residem.

**Stop assigning new tasks to datastore at** – Limita a latência de I/O no qual o Backup e Replicação do Veeam não devem atribuir novas tarefas direcionadas ao datastore.

**Throttle I/O of existing tasks at** – Limita a latência de (I/O) no qual o Veeam Backup & Replication deve reduzir a velocidade de leitura/gravação de dados de/para o repositório.

As mesmas opções podem ser configuradas para datastores individuais.



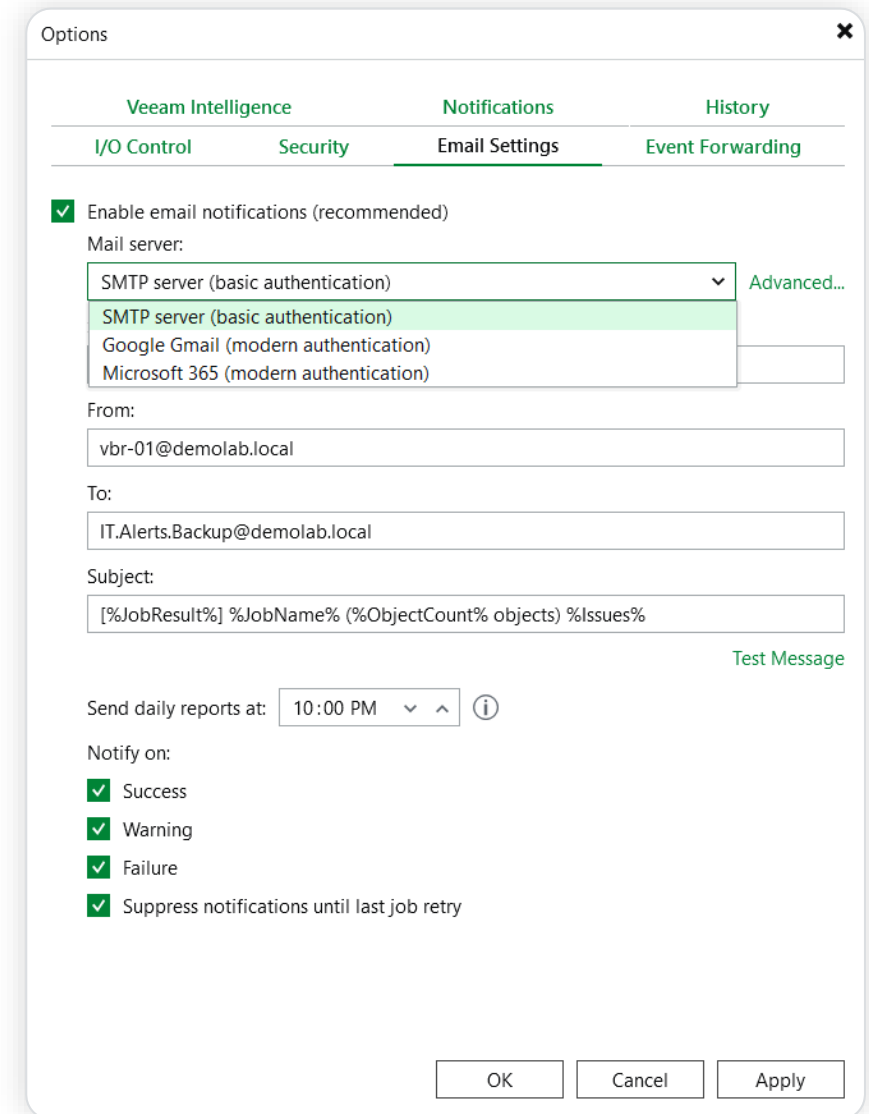
# Menu Principal

## E-mail Settings.

O Veeam Backup & Replication também oferece a possibilidade de enviar e-mails contendo relatórios diários sobre o último status dos trabalhos de backup.

No momento, suportamos SMTP, Google Gmail e Microsoft 365 como servidores de e-mail que podem ser usados para esse fim.

O assunto do e-mail, os destinatários, o endereço de e-mail do remetente e o tipo de relatório/notificação, tudo pode ser configurado e customizado a partir dessa aba.



The screenshot shows the 'Options' dialog box with the 'Email Settings' tab selected. The 'Enable email notifications (recommended)' checkbox is checked. The 'Mail server' dropdown menu is open, showing options: 'SMTP server (basic authentication)', 'Google Gmail (modern authentication)', and 'Microsoft 365 (modern authentication)'. The 'From:' field is 'vbr-01@demolab.local', the 'To:' field is 'IT.Alerts.Backup@demolab.local', and the 'Subject:' field is '[%JobResult%] %JobName% (%ObjectCount% objects) %Issues%'. The 'Send daily reports at:' field is set to '10:00 PM'. The 'Notify on:' section has checkboxes for 'Success', 'Warning', 'Failure', and 'Suppress notifications until last job retry', all of which are checked. The 'Test Message' button is visible at the bottom right of the dialog box.

Veeam Intelligence	Notifications	History
I/O Control	Security	Event Forwarding

Enable email notifications (recommended)

Mail server:

SMTP server (basic authentication) Advanced...

SMTP server (basic authentication)

Google Gmail (modern authentication)

Microsoft 365 (modern authentication)

From:

vbr-01@demolab.local

To:

IT.Alerts.Backup@demolab.local

Subject:

[%JobResult%] %JobName% (%ObjectCount% objects) %Issues%

[Test Message](#)

Send daily reports at: 10:00 PM ⌵ ⌶ ?

Notify on:

Success

Warning

Failure

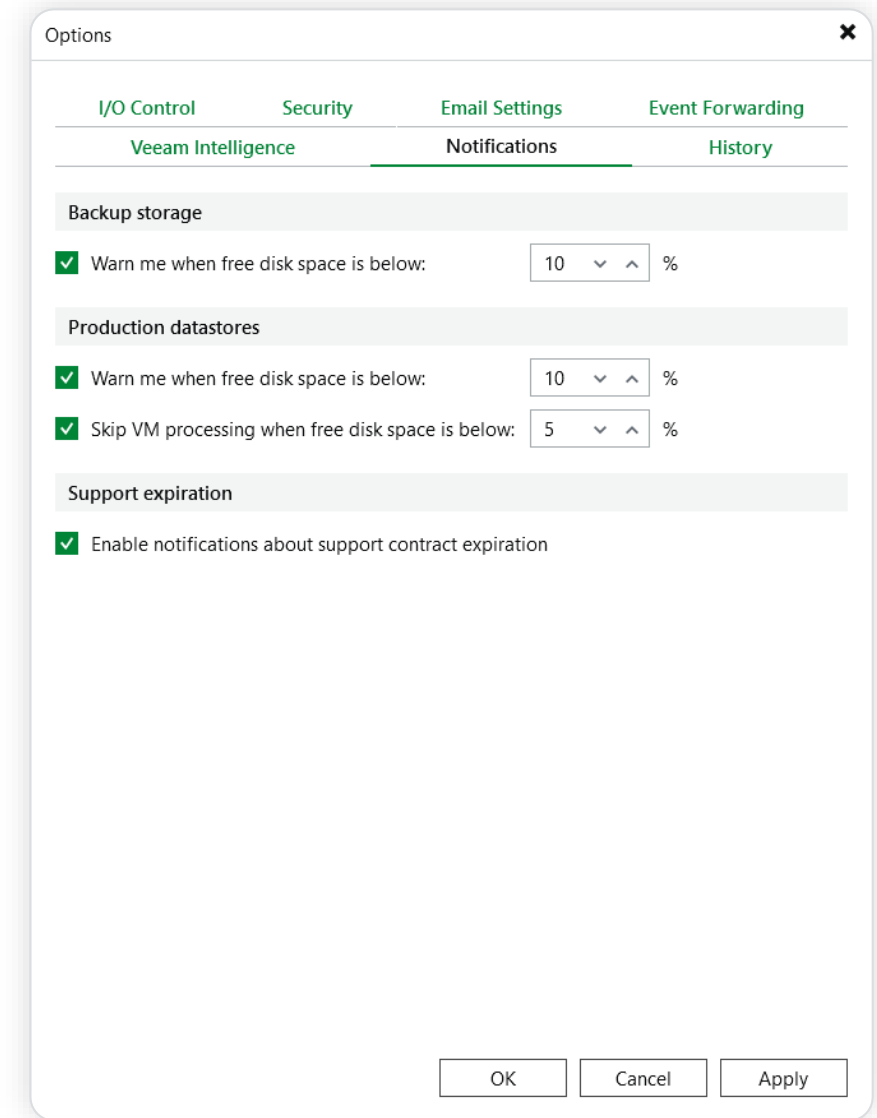
Suppress notifications until last job retry

OK Cancel Apply

# Menu Principal

## Notifications.

O Veeam Backup & Replication também pode exibir notificações diretamente dentro do console sempre que limites forem atingidos, por exemplo nos repositórios de backup ou datastores de produção; faltam 14 dias para o fim do suporte para a licença instalada, atualização para os hypervisores estão disponíveis; etc.



The screenshot shows the 'Options' dialog box with the 'Notifications' tab selected. The dialog has a title bar with a close button (X) and a tabbed interface with four tabs: 'I/O Control', 'Security', 'Email Settings', and 'Event Forwarding'. The 'Notifications' tab is active and contains three sections: 'Backup storage', 'Production datastores', and 'Support expiration'. Each section has a checked checkbox and a numeric input field with up/down arrows and a percentage sign.

Section	Option	Value	Unit
Backup storage	Warn me when free disk space is below:	10	%
Production datastores	Warn me when free disk space is below:	10	%
	Skip VM processing when free disk space is below:	5	%
Support expiration	Enable notifications about support contract expiration		

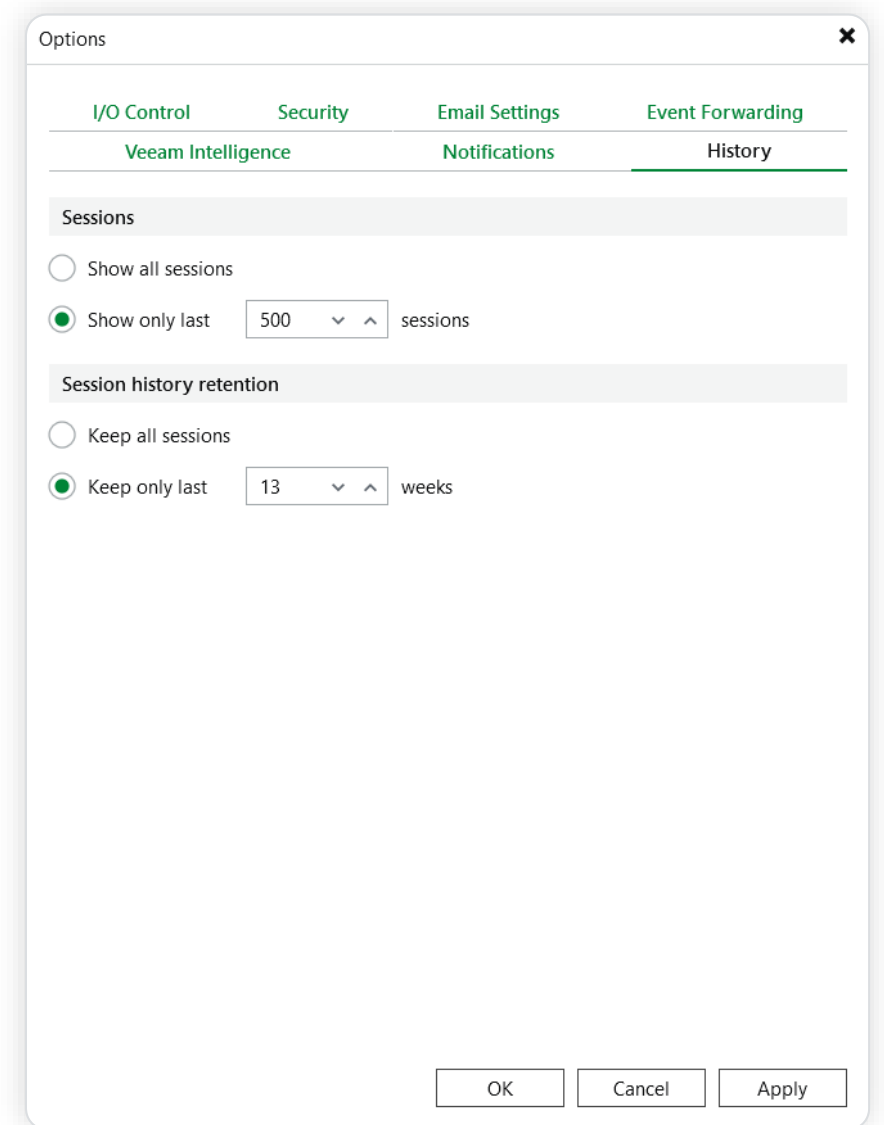
At the bottom right of the dialog are three buttons: 'OK', 'Cancel', and 'Apply'.

# Menu Principal

## History

A área Sessões controla quantas entradas devem estar visíveis na aba Histórico do console Veeam Backup & Replication.

A área de retenção do histórico de sessões determina por quanto tempo as informações das sessões devem ser mantidas no banco de dados.

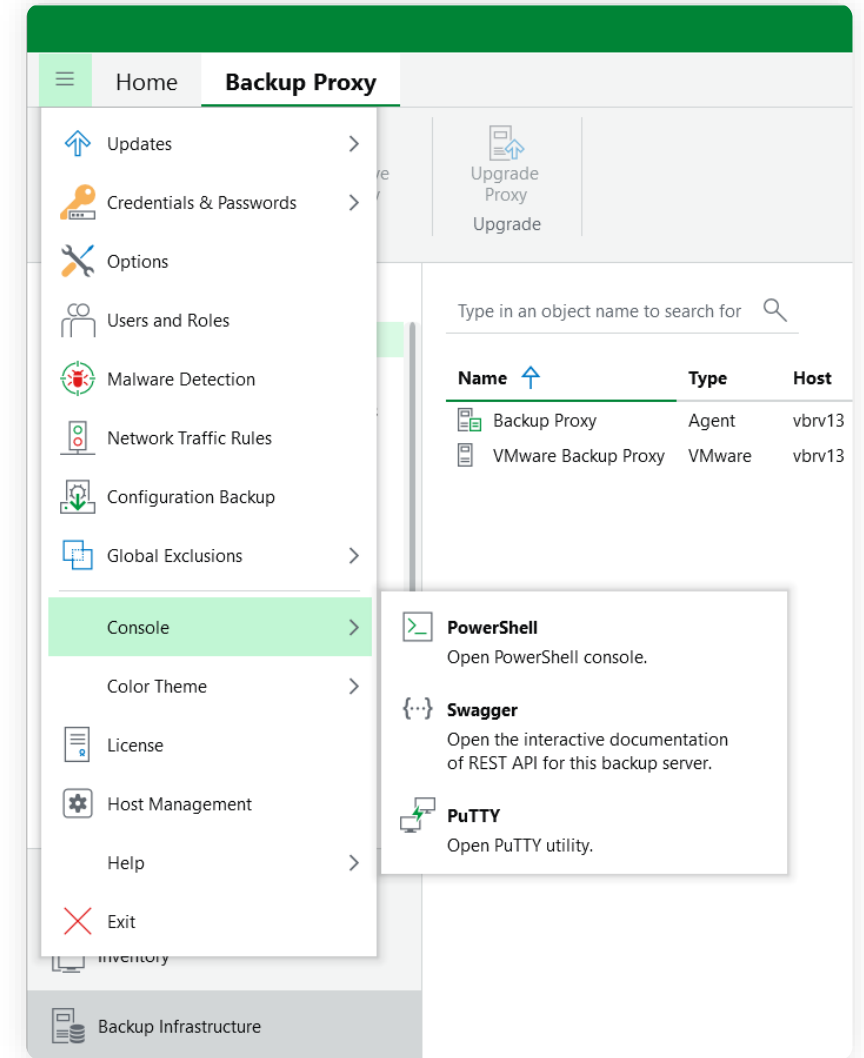


The screenshot shows the 'Options' dialog box with the 'History' tab selected. The dialog has a title bar with 'Options' and a close button. Below the title bar are four tabs: 'I/O Control', 'Security', 'Email Settings', and 'Event Forwarding'. Under 'Event Forwarding', there are three sub-tabs: 'Veeam Intelligence', 'Notifications', and 'History'. The 'History' sub-tab is active. The 'Sessions' section has two radio buttons: 'Show all sessions' (unselected) and 'Show only last' (selected). Next to 'Show only last' is a spinner box containing the number '500' and the text 'sessions'. The 'Session history retention' section has two radio buttons: 'Keep all sessions' (unselected) and 'Keep only last' (selected). Next to 'Keep only last' is a spinner box containing the number '13' and the text 'weeks'. At the bottom right of the dialog are three buttons: 'OK', 'Cancel', and 'Apply'.

# Menu Principal

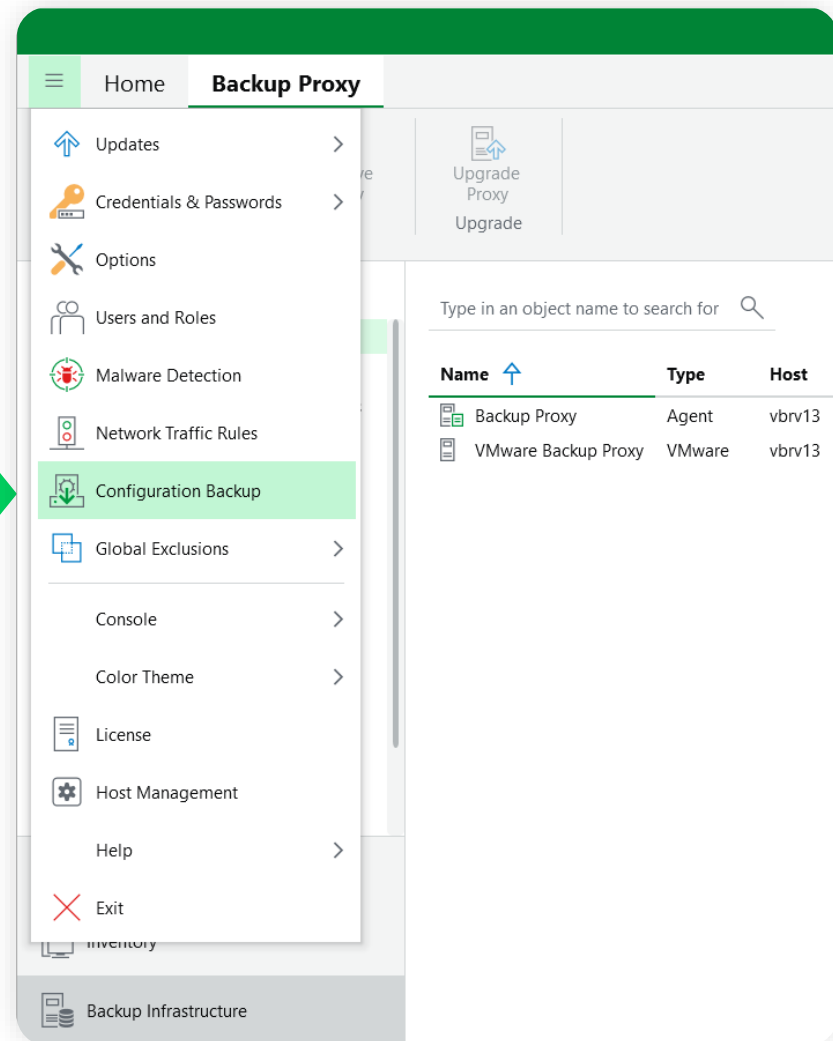
## Console

Veeam Backup & Replication oferece a possibilidade de abrir o console PowerShell, executar o utilitário PuTTY e abrir a documentação interativa ou APIs REST para o servidor de backup diretamente do console.



# Menu Principal

## Configuration Backup



The screenshot displays the Veeam Backup Proxy configuration interface. The left sidebar contains a menu with the following items: Home, Backup Proxy, Updates, Credentials & Passwords, Options, Users and Roles, Malware Detection, Network Traffic Rules, Configuration Backup (highlighted), Global Exclusions, Console, Color Theme, License, Host Management, Help, Exit, Inventory, and Backup Infrastructure. The main content area shows a search bar and a table of backup proxy configurations.

Name	Type	Host
Backup Proxy	Agent	vbrv13
VMware Backup Proxy	VMware	vbrv13

# Menu Principal


## Configuration Backup

Configuration Backup Settings ✕

**Backup**

Enable configuration backup to the following repository:

Windows Repo (Created by .\veeamadmin at 10/23/2025 10:51 PM.) ▼

 271 GB free of 399 GB

Restore points to keep:  ▼ ▲ [Notifications...](#)


Perform backup on: Daily at 10:00 AM [Schedule...](#)

Last successful backup: 11/14/2025 10:46 AM [Backup now](#)

Enable configuration backup file encryption

Password:

Created by .\veeamadmin at 11/12/2025 7:10 AM. (Last edited:...) ▼ [Add...](#)

 Loss protection disabled [Manage passwords](#)

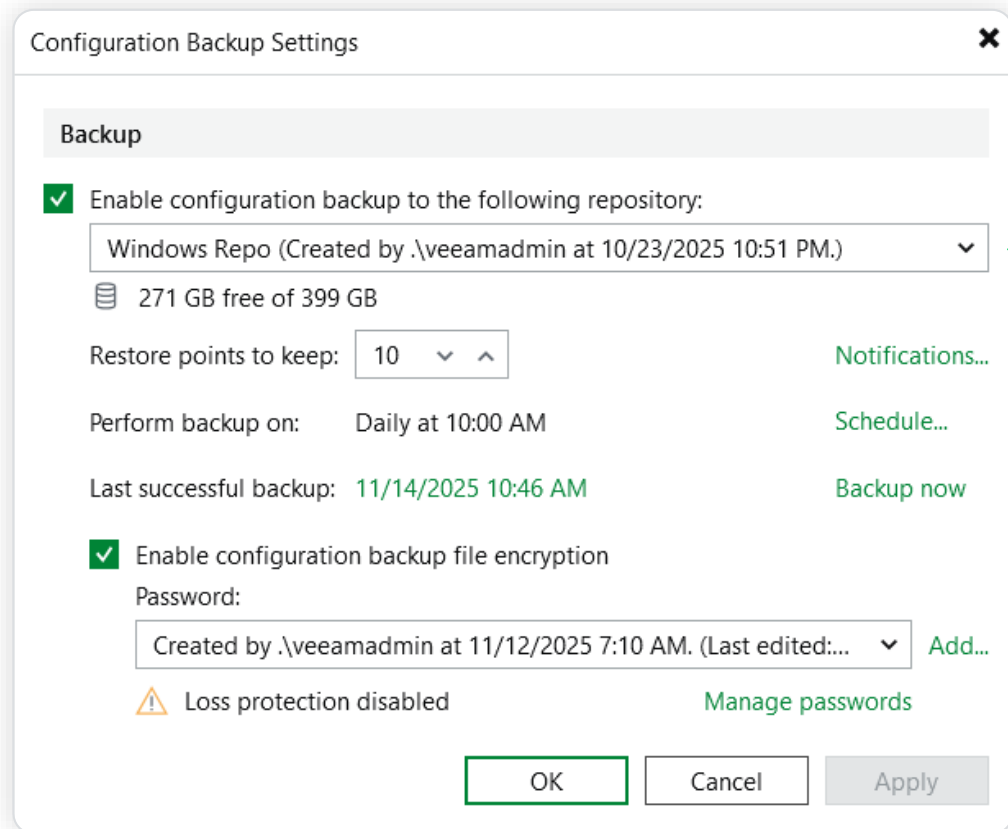
Veeam Backup & Replication Armazena todas as alterações feitas dentro de um console em um servidor específico como backup de configuração.

Se o servidor principal de Backup & Replicação do Veeam falhar por algum motivo, o Backup de Configuração pode ser usado para restaurar rapidamente a configuração em um novo.

Esse método também é recomendado se o Veeam Backup & Replication for ser substituído ou trocado no futuro ou para migrações de servidores de backup.

# Menu Principal

## Configuration Backup



Configuration Backup Settings

**Backup**

Enable configuration backup to the following repository:

Windows Repo (Created by .\veeamadmin at 10/23/2025 10:51 PM.)

271 GB free of 399 GB

Restore points to keep: 10 [Notifications...](#)


Perform backup on: Daily at 10:00 AM [Schedule...](#)

Last successful backup: 11/14/2025 10:46 AM [Backup now](#)

Enable configuration backup file encryption

Password:

Created by .\veeamadmin at 11/12/2025 7:10 AM. (Last edited:...) [Add...](#)

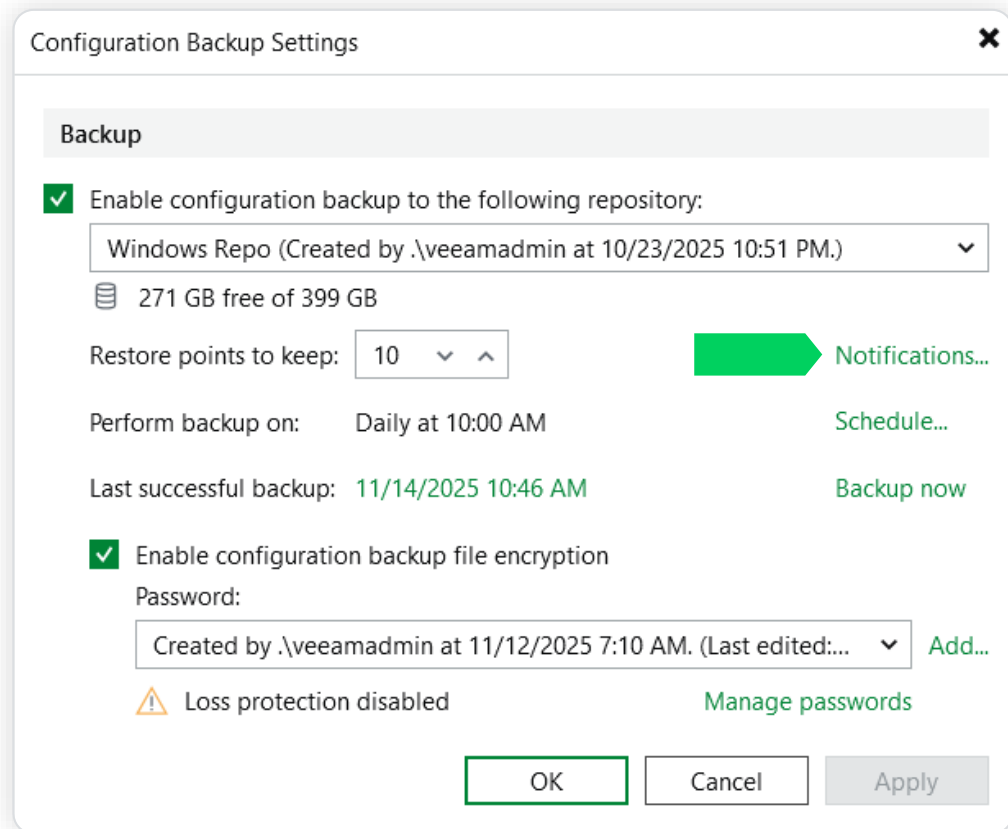
 Loss protection disabled [Manage passwords](#)

Para armazenar o backup de configuração, um repositório deve ser selecionado.

Não utilize o **DEFAULT BACKUP REPOSITORY**

# Menu Principal

## Configuration Backup



The screenshot shows the 'Configuration Backup Settings' dialog box. It has a title bar with 'Configuration Backup Settings' and a close button (X). The main content is organized into sections. The first section is 'Backup', which includes a checked checkbox for 'Enable configuration backup to the following repository:'. Below this is a dropdown menu showing 'Windows Repo (Created by .\veeamadmin at 10/23/2025 10:51 PM.)'. Underneath the dropdown, it indicates '271 GB free of 399 GB'. There are three controls: 'Restore points to keep:' with a spinner set to '10', a green arrow pointing to 'Notifications...', and 'Perform backup on:' set to 'Daily at 10:00 AM' with a 'Schedule...' link. The 'Last successful backup:' is '11/14/2025 10:46 AM' with a 'Backup now' link. The second section is 'Enable configuration backup file encryption', which is also checked. It has a 'Password:' field with a dropdown showing 'Created by .\veeamadmin at 11/12/2025 7:10 AM. (Last edited:...' and an 'Add...' link. At the bottom of this section, there is a warning icon and text 'Loss protection disabled' and a 'Manage passwords' link. At the very bottom of the dialog are three buttons: 'OK', 'Cancel', and 'Apply'.

SNMP e/ou E-mail notificações para o backup de configuração podem ser enviadas automaticamente.

Também há uma boa prática de agendar o backup para ser feito automaticamente, em vez de depender de backups manuais.

# Menu Principal


## Configuration Backup

Configuration Backup Settings ✕

**Backup**

Enable configuration backup to the following repository:


Windows Repo (Created by .\veeamadmin at 10/23/2025 10:51 PM.) ▼

 271 GB free of 399 GB

Restore points to keep:  ▼ ▲ [Notifications...](#)


Perform backup on: Daily at 10:00 AM [Schedule...](#)

Last successful backup: 11/14/2025 10:46 AM [Backup now](#)

Enable configuration backup file encryption 

Password:

Created by .\veeamadmin at 11/12/2025 7:10 AM. (Last edited:...) ▼ [Add...](#)

 Loss protection disabled [Manage passwords](#)

Outra boa prática é proteger o backup de configuração por meio de criptografia. Se a senha da criptografia for perdida, somente o Veeam Backup Enterprise Manager pode ajudar a recuperá-la.

# Main Menu

## Configuration Backup

Configuration Backup Settings

**Backup**

Enable configuration backup to the following repository:  
Veeam.Vault.Azure (Created by .\Administrator at 1/27/2026 1:07 PM.)

N/A

Restore points to keep: 10 [Notifications...](#)

Perform backup on: Daily at 10:00 AM [Schedule...](#)

Last successful backup: No backup [Backup now](#)

Enable configuration backup file encryption  
Password:  [Add...](#)

Loss protection enabled [Manage passwords](#)

**Restore**

Restore the configuration backup to this server: [Restore...](#)

Veeam Backup and Replication Configuration Restore

**Restore Mode**  
Specify your configuration restore scenario.

**Restore Mode**

**Restore**  
Use this mode if you have unexpectedly lost your backup server, and are trying to restore it. Once the configuration restore has been completed, the wizard will initiate the process of searching for any new restore points that might have been created after the last configuration backup.

**Migrate**  
Use this mode if you are performing planned migration of your backup server to a new computer. To ensure there is no data loss, make sure you are using the configuration backup made after all jobs have been stopped and disabled.

< Previous  Finish Cancel

A restauração da configuração do seu Veeam só pode ser realizada a partir dessa janela você pode usar também para migrar a configuração do Veeam para outro Servidor de Backup.

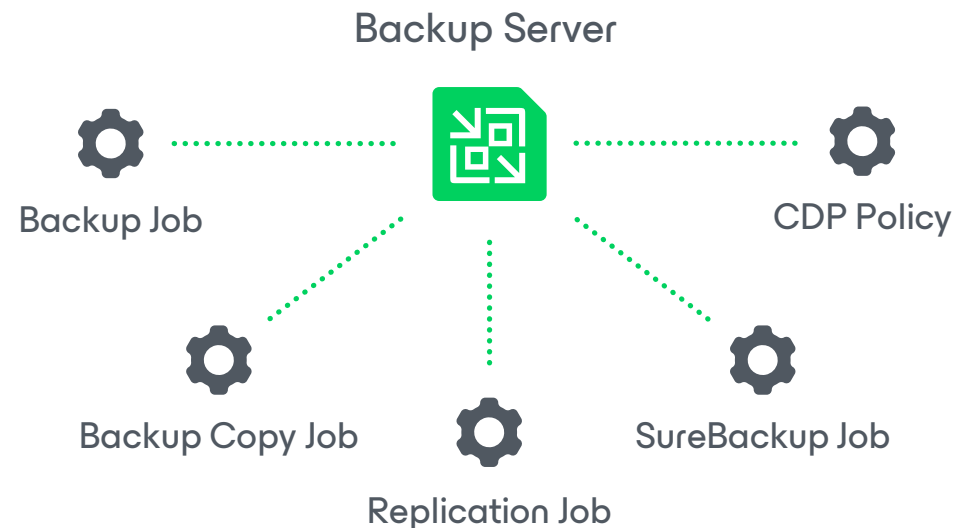
Jobs

The background features a gradient from dark blue on the left to light green on the right. Two sets of thin, wavy lines are overlaid: one set in the lower half, colored in shades of blue and cyan, and another set in the upper right, colored in shades of green and yellow.

# O conceito sobre Jobs

No Veeam Backup & Replication, **Jobs** abrange uma variedade de tarefas de gerenciamento de dados, incluindo operações de **backup**, **replication**, e **restore**. Uma vez configurados, os Jobs automatizarão o processo, garantindo que os dados críticos sejam protegidos de forma regular e confiável contra perdas ou corrupção.

Quando se trata de alocação de recursos para infraestrutura de backup, o **Resource Scheduler Service** interno no Veeam Backup & Replication identifica a prioridade dos trabalhos aguardando recursos gratuitos com base no tipo, prioridade e horário de início programado.



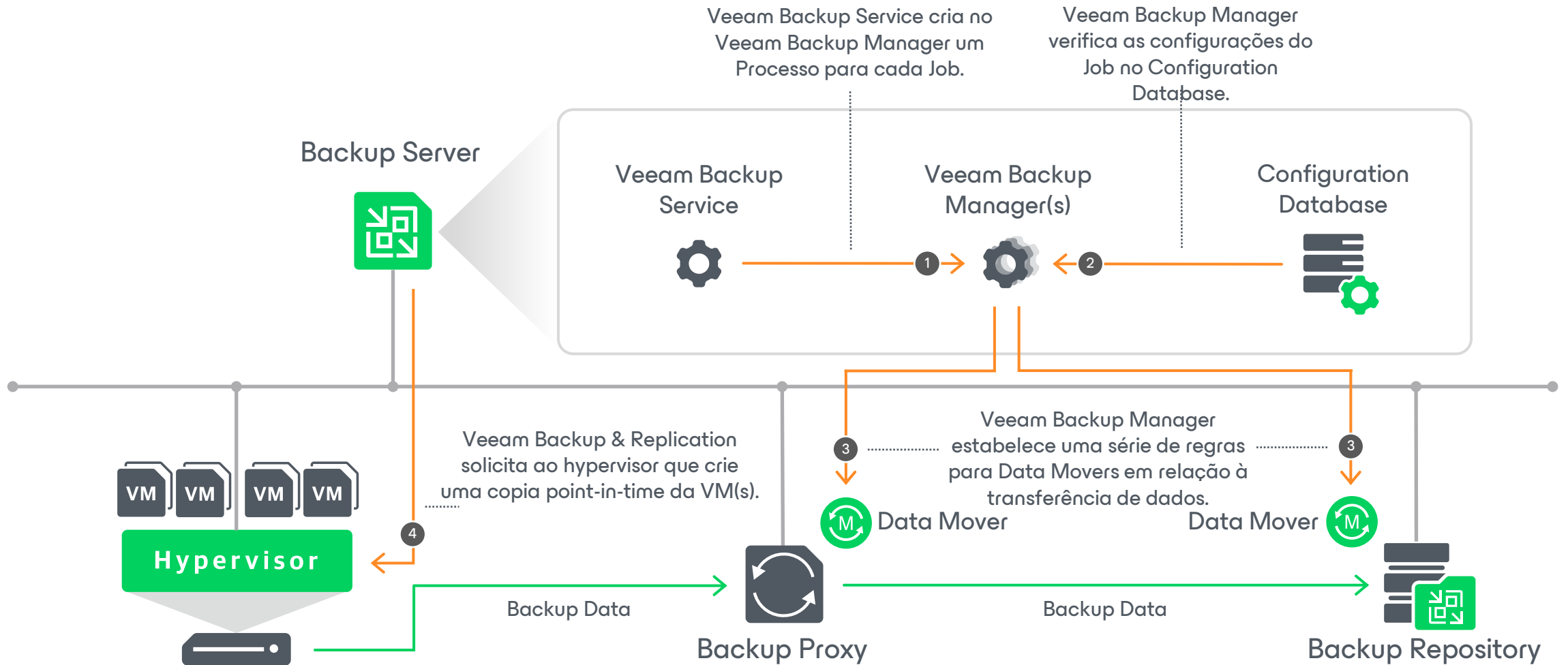
# Priorização de Jobs

Aqui está uma **Lista simplificada** em ordem de alta prioridade para baixa prioridade:

1. **Jobs de Restore** — Esses jobs têm a maior prioridade e são os primeiros a receber recursos gratuitos do sistema.
2. **Políticas de CDP (Continuous Data Protection).**
3. **Jobs internos do sistema** (SnapshotDeleter por exemplo).
4. **Quick Backup jobs** — Esses jobs tem a segunda maior prioridade.
5. **High Priority jobs** — Jobs com a opção de Alta Prioridade ativada, tem a terceira maior prioridade. É possível ativar a opção de alta prioridade para o seguinte tipos de jobs: **backup, replication, agent managed by backup server, file backup jobs.**
6. **Backup Jobs regulares e Replication jobs.**
7. **Backup Copy jobs, e Archive jobs** — Têm a menor prioridade e são os últimos a conseguir recursos do sistema para execução.

# Jobs

## Exemplo de processo de backup



# Jobs

## Exemplo de processo de criação de um job de backup

New Backup Job ✕

**Name**

Virtual Machines

Storage

Guest Processing

Schedule

Summary

**Name**

Type in a name and description for this backup job.

Name:

Backup Job Example

Description:

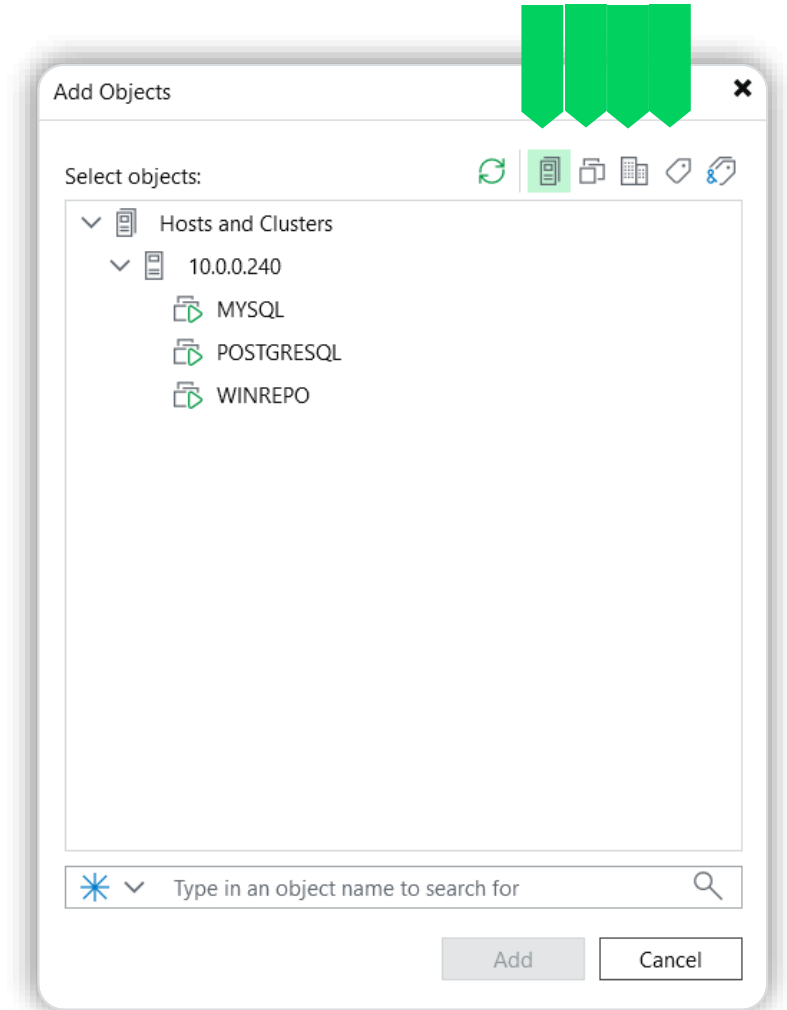
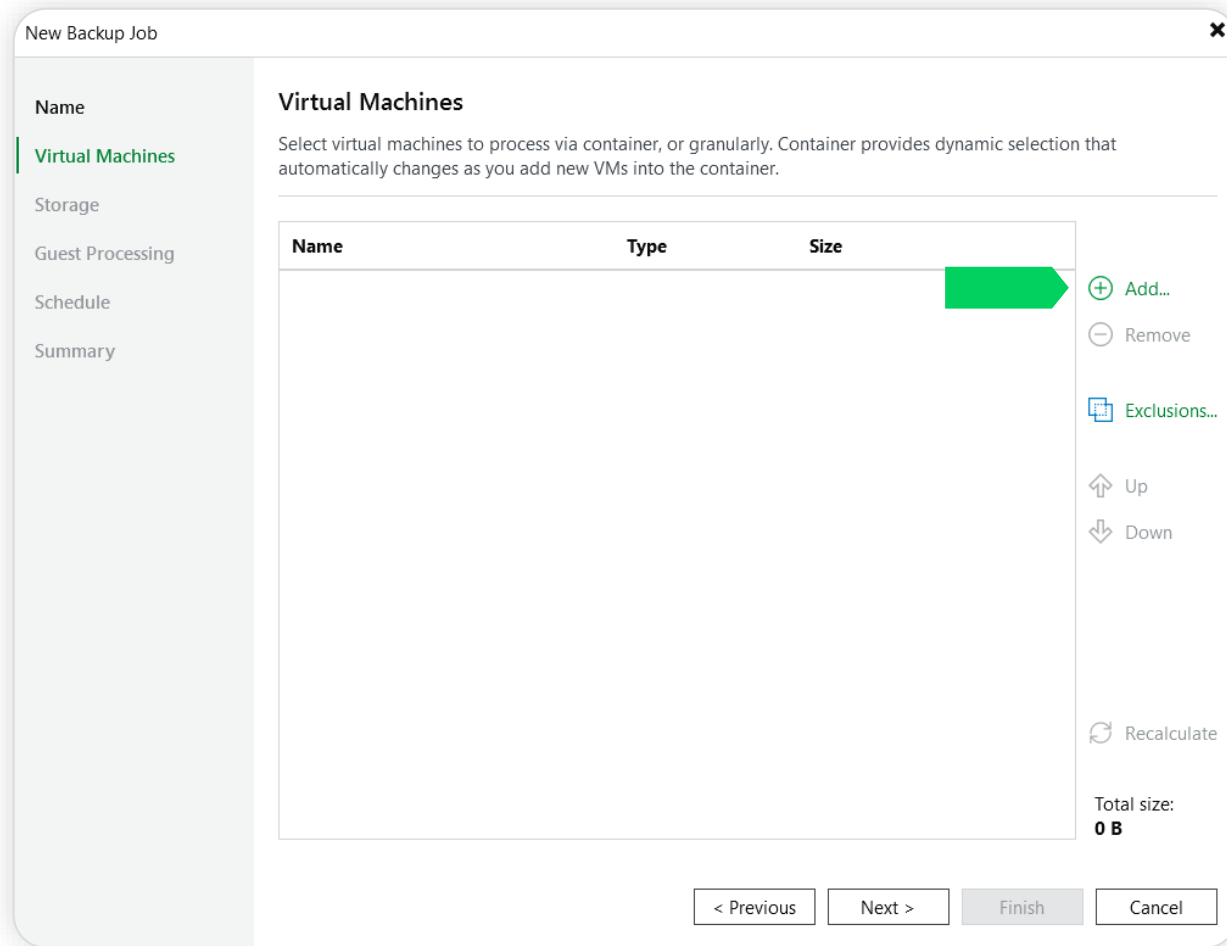
High priority

Backup infrastructure resources are offered to high priority jobs first. Use this option for jobs sensitive to the start time, or jobs with strict RPO requirements.

< Previous **Next >** Finish Cancel

# Jobs

## Exemplo de processo de criação de um job de backup



# Jobs

## Exemplo de processo de criação de um job de backup

The 'New Backup Job' dialog box is shown in the 'Virtual Machines' step. The left sidebar contains navigation options: Name, Virtual Machines (selected), Storage, Guest Processing, Schedule, and Summary. The main area is titled 'Virtual Machines' and includes a description: 'Select virtual machines to process via container, or granularly. Container provides dynamic selection that automatically changes as you add new VMs into the container.'

Name	Type	Size
MYSQL	Virtual machine	13.5 GB
POSTGRESQL	Virtual machine	11.6 GB

Below the table are several action buttons: '+ Add...', '- Remove', 'Exclusions...' (highlighted with a green arrow), 'Up', 'Down', and 'Recalculate'. At the bottom right, the 'Total size' is displayed as '25.1 GB'. At the bottom of the dialog are buttons for '< Previous', 'Next >', 'Finish', and 'Cancel'.

The 'Exclusions' dialog box is shown with three green arrows pointing to the 'VMs', 'Disks', and 'Templates' tabs. The 'VMs' tab is currently selected. The main area is titled 'Objects to exclude:' and contains an empty table with columns 'Name' and 'Type'. To the right of the table are 'Add...' and 'Remove' buttons. At the bottom of the dialog are 'OK' and 'Cancel' buttons.

# Jobs

## Exemplo de processo de criação de um job de backup

### New Backup Job

**Name**

**Virtual Machines**

**Storage**

Guest Processing

Schedule

Summary

**Storage**

Specify processing proxy server to be used for source data retrieval, backup repository to store the backup files produced by this job and customize advanced job settings if required.

Backup proxy: Automatic selection [Choose...](#)

Backup repository: Windows Repo (Created by .\veeamadmin at 10/23/2025 10:51 PM.) [Map backup](#)

271 GB free of 399 GB

Retention policy: 7 days [i](#)

Keep certain full backups longer for archival purposes [Configure...](#)

4 weekly, 12 monthly, 13 yearly

Configure secondary destinations for this job

Copy backups produced by this job to another backup repository, or tape. We recommend to make at least one copy of your backups to a different storage device that is located off-site.

[Advanced job settings...](#)

< Previous   Next >   Finish   Cancel

### Backup Proxy

Choose backup proxy servers for this job. For redundancy, we recommend to select at least two proxies. When multiple proxies are available, selection will be performed on per-VM basis, taking into account proxy connectivity and current load.

### Configure GFS

Keep weekly full backups for: 4 weeks

If multiple full backups exist, use the one from: Sunday

Keep monthly full backups for: 12 months

Use weekly full backup from the following week of a month: First

Keep yearly full backups for: 13 years

Use monthly full backup from the following month: January

[Save as default](#)   [OK](#)   [Cancel](#)

[OK](#)   [Cancel](#)

# Jobs

## Exemplo de processo de criação de um job de backup

### New Backup Job

- Name
- Virtual Machines
- Storage**
- Guest Processing
- Schedule
- Summary

**Storage**

Specify processing proxy server to be used for source data retrieval, backup repository to store the backup files produced by this job and customize advanced job settings if required.

Backup proxy: Automatic selection [Choose...](#)

Backup repository: Windows Repo (Created by .\veeamadmin at 10/23/2025 10:51 PM.) [Map backup](#)  
271 GB free of 399 GB

Retention policy: 7 days [i](#)

Keep certain full backups longer for archival purposes [Configure...](#)  
4 weekly, 12 monthly, 13 yearly

Configure secondary destinations for this job  
Copy backups produced by this job to another backup repository, or tape. We recommend to make at least one copy of your backups to a different storage device that is located off-site.

[Advanced job settings...](#)

< Previous   Next >   Finish   Cancel

### Advanced Settings

- Backup**
- Maintenance
- Storage
- Notifications
- vSphere
- Integration
- Scripts

Create synthetic full backups periodically on:  
Saturday [Configure...](#)

Create active full backups periodically on:  
Saturday [Configure...](#)

Save As Default

OK   Cancel

# Jobs

## Exemplo de processo de criação de um job de backup

### New Backup Job

- Name
- Virtual Machines
- Storage**
- Guest Processing
- Schedule
- Summary

**Storage**

Specify processing proxy server to be used for source data retrieval, backup repository to store the backup files produced by this job and customize advanced job settings if required.

Backup proxy: Automatic selection [Choose...](#)

Backup repository: Windows Repo (Created by .\veeamadmin at 10/23/2025 10:51 PM.) [Map backup](#)  
271 GB free of 399 GB

Retention policy: 7 days [i](#)

Keep certain full backups longer for archival purposes [Configure...](#)  
4 weekly, 12 monthly, 13 yearly

Configure secondary destinations for this job  
Copy backups produced by this job to another backup repository, or tape. We recommend to make at least one copy of your backups to a different storage device that is located off-site.

[Advanced job settings...](#)

< Previous   Next >   Finish   Cancel

### Advanced Settings

- Backup
- Maintenance**
- Storage
- Notifications
- vSphere
- Integration
- Scripts

**Storage-level corruption guard**

Perform backup files health check (detects and auto-heals corruption) on:  
At 05:00 on Last Saturday of every month [Configure...](#)

**Full backup file maintenance**

Remove deleted items data after  days

Defragment and compact full backup file on:  
Last Saturday of every month [Configure...](#)

[Save As Default](#)   [OK](#)   [Cancel](#)

# Jobs

## Exemplo de processo de criação de um job de backup

### New Backup Job

- Name
- Virtual Machines
- Storage**
- Guest Processing
- Schedule
- Summary

**Storage**

Specify processing proxy server to be used for source data retrieval, backup repository to store the backup files produced by this job and customize advanced job settings if required.

Backup proxy: Automatic selection [Choose...](#)

Backup repository: Windows Repo (Created by .\veeamadmin at 10/23/2025 10:51 PM.) [Map backup](#)

271 GB free of 399 GB

Retention policy: 7 days [i](#)

- Keep certain full backups longer for archival purposes [Configure...](#)  
4 weekly, 12 monthly, 13 yearly
- Configure secondary destinations for this job  
Copy backups produced by this job to another backup repository, or tape. We recommend to make at least one copy of your backups to a different storage device that is located off-site.

[Advanced job settings...](#)

< Previous   Next >   Finish   Cancel

### Advanced Settings

- Backup
- Maintenance
- Storage**
- Notifications
- vSphere
- Integration
- Scripts

**Data reduction**

- Enable inline data deduplication (recommended)
- Exclude swap file blocks (recommended)
- Exclude deleted file blocks (recommended)

Compression level:

Optimal (recommended)

Provides for the best compression to performance ratio, lowest backup proxy CPU usage and fastest restore.

Storage optimization:

1 MB (recommended)

Delivers the optimal combination of backup speed, granular restore performance and repository space consumption.

**Encryption**

- Enable backup file encryption

Password:

Created by .\veeamadmin at 11/12/2025 7:10 AM. (Last edited: 2 days ago) [Add...](#)

[Manage passwords](#)

[Loss protection disabled](#)

Save As Default   OK   Cancel

# Jobs

## Exemplo de processo de criação de um job de backup

### New Backup Job

- Name
- Virtual Machines
- Storage**
- Guest Processing
- Schedule
- Summary

#### Storage

Specify processing proxy server to be used for source data retrieval, backup repository to store the backup files produced by this job and customize advanced job settings if required.

Backup proxy: Automatic selection [Choose...](#)

Backup repository: Windows Repo (Created by .\veeamadmin at 10/23/2025 10:51 PM.)  
271 GB free of 399 GB [Map backup](#)

Retention policy: 7 days [i](#)

Keep certain full backups longer for archival purposes [Configure...](#)  
4 weekly, 12 monthly, 13 yearly

Configure secondary destinations for this job  
Copy backups produced by this job to another backup repository, or tape. We recommend to make at least one copy of your backups to a different storage device that is located off-site.

[Advanced job settings...](#)

< Previous   Next >   Finish   Cancel

### Advanced Settings

- Backup
- Maintenance
- Storage
- Notifications**
- vSphere
- Integration
- Scripts

Send SNMP notifications for this job

Send email notifications to the following recipients:  
Type in one or more email addresses separated by semicolon

Use global notification settings

Use custom notification settings specified below:  
Subject:  
[%JobResult%] %JobName% (%ObjectCount% objects) %Issues%

Notify on success

Notify on warning

Notify on error

Suppress notifications until the last retry

Set successful backup details to this VM attribute:  
Notes

Append to the existing attribute's value

Save As Default   OK   Cancel

# Jobs

## Exemplo de processo de criação de um job de backup

### New Backup Job

- Name
- Virtual Machines
- Storage**
- Guest Processing
- Schedule
- Summary

**Storage**

Specify processing proxy server to be used for source data retrieval, backup repository to store the backup files produced by this job and customize advanced job settings if required.

Backup proxy: Automatic selection [Choose...](#)

Backup repository: Windows Repo (Created by .\veeamadmin at 10/23/2025 10:51 PM.) [Map backup](#)

271 GB free of 399 GB

Retention policy: 7 days [i](#)

Keep certain full backups longer for archival purposes [Configure...](#)  
4 weekly, 12 monthly, 13 yearly

Configure secondary destinations for this job

Copy backups produced by this job to another backup repository, or tape. We recommend to make at least one copy of your backups to a different storage device that is located off-site.

[Advanced job settings...](#)

< Previous   Next >   Finish   Cancel

### Advanced Settings

- Backup
- Maintenance
- Storage
- Notifications
- vSphere**
- Integration
- Scripts

**Guest quiescence**

Enable VMware Tools quiescence

Native quiescence will only be used for virtual machines with application-aware image processing disabled.

**Changed block tracking**

Use changed block tracking data (recommended)

Enable CBT for all protected VMs automatically

Changed Block Tracking (CBT) is a VMware feature that allows for faster incremental backup and replication. For CBT to be enabled, VM must have no existing snapshots.

Reset CBT on each Active Full backup automatically

Provides safety net against potential CBT issues at the cost of slightly increased backup window.

Save As Default   OK   Cancel

# Jobs

## Exemplo de processo de criação de um job de backup

### New Backup Job

**Name**

**Virtual Machines**

**Storage**

Guest Processing

Schedule

Summary

**Storage**

Specify processing proxy server to be used for source data retrieval, backup repository to store the backup files produced by this job and customize advanced job settings if required.

Backup proxy: Automatic selection [Choose...](#)

Backup repository: Windows Repo (Created by .\veeamadmin at 10/23/2025 10:51 PM.) [Map backup](#)

271 GB free of 399 GB

Retention policy: 7 days [i](#)

Keep certain full backups longer for archival purposes [Configure...](#)  
4 weekly, 12 monthly, 13 yearly

Configure secondary destinations for this job

Copy backups produced by this job to another backup repository, or tape. We recommend to make at least one copy of your backups to a different storage device that is located off-site.

[Advanced job settings...](#)

< Previous   Next >   Finish   Cancel

### Advanced Settings

[Backup](#)   [Maintenance](#)   [Storage](#)   [Notifications](#)   [vSphere](#)   [Integration](#)   [Scripts](#)

**Primary storage integration**

Enable backup from storage snapshots

Use storage snapshots (instead of VM snapshots) as the data source for this job. Using storage snapshots reduces impact on the production environment from VM snapshot commit.

Limit processed VM count per storage snapshot to 10 [v](#) [^](#)

By default, the job will process all included VMs located on the same datastore from a single storage snapshot.

Failover to standard backup

Perform standard backup from VM snapshot if backup from storage snapshot fails.

Failover to primary storage snapshot

Use primary storage snapshots as the data source if backup from secondary storage snapshot fails.

Save As Default   OK   Cancel

# Jobs

## Exemplo de processo de criação de um job de backup

### New Backup Job

- Name
- Virtual Machines
- Storage**
- Guest Processing
- Schedule
- Summary

#### Storage

Specify processing proxy server to be used for source data retrieval, backup repository to store the backup files produced by this job and customize advanced job settings if required.

Backup proxy: Automatic selection [Choose...](#)

Backup repository: Windows Repo (Created by .\veeamadmin at 10/23/2025 10:51 PM.) [Map backup](#)

271 GB free of 399 GB

Retention policy: 7 days [i](#)

Keep certain full backups longer for archival purposes [Configure...](#)  
4 weekly, 12 monthly, 13 yearly

Configure secondary destinations for this job  
Copy backups produced by this job to another backup repository, or tape. We recommend to make at least one copy of your backups to a different storage device that is located off-site.

[Advanced job settings...](#)

< Previous   Next >   Finish   Cancel

### Advanced Settings

- Backup
- Maintenance
- Storage
- Notifications
- vSphere
- Integration
- Scripts**

#### Job scripts

Run the following script before the job:  
[Browse...](#)

Run the following script after the job:  
[Browse...](#)

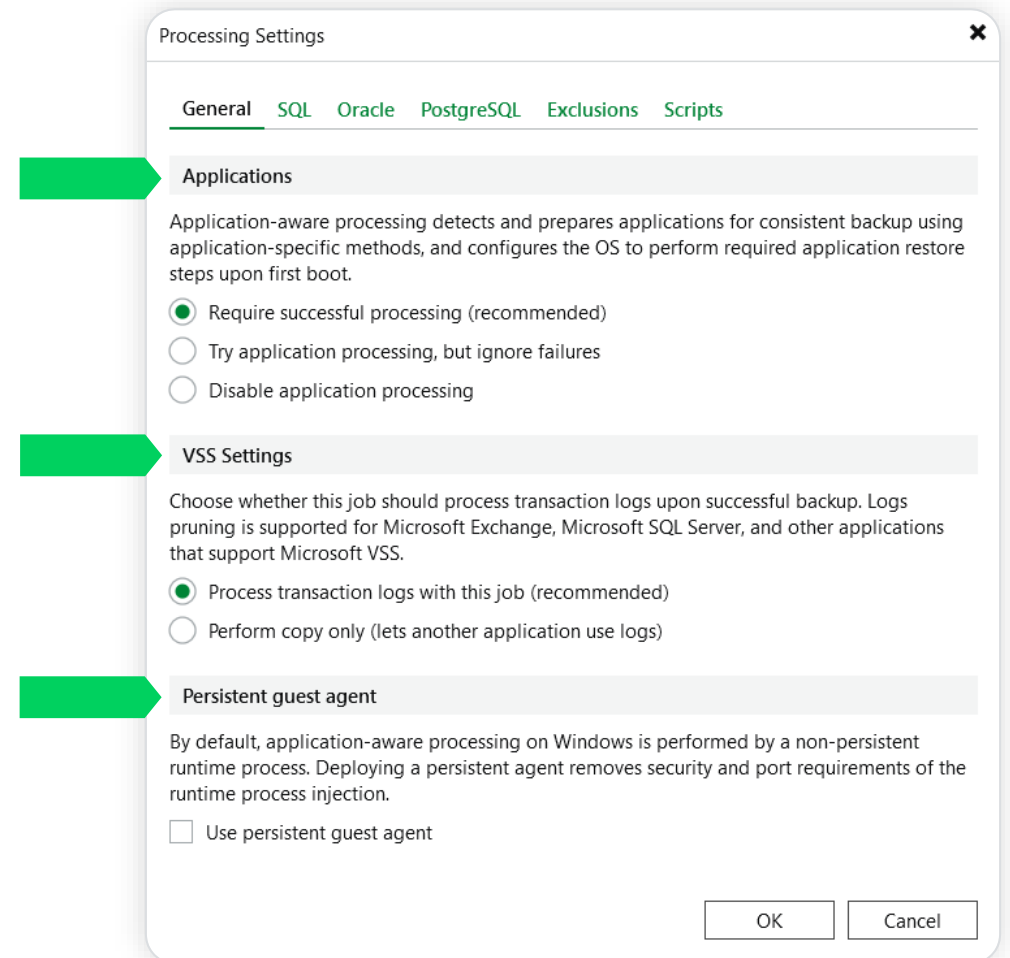
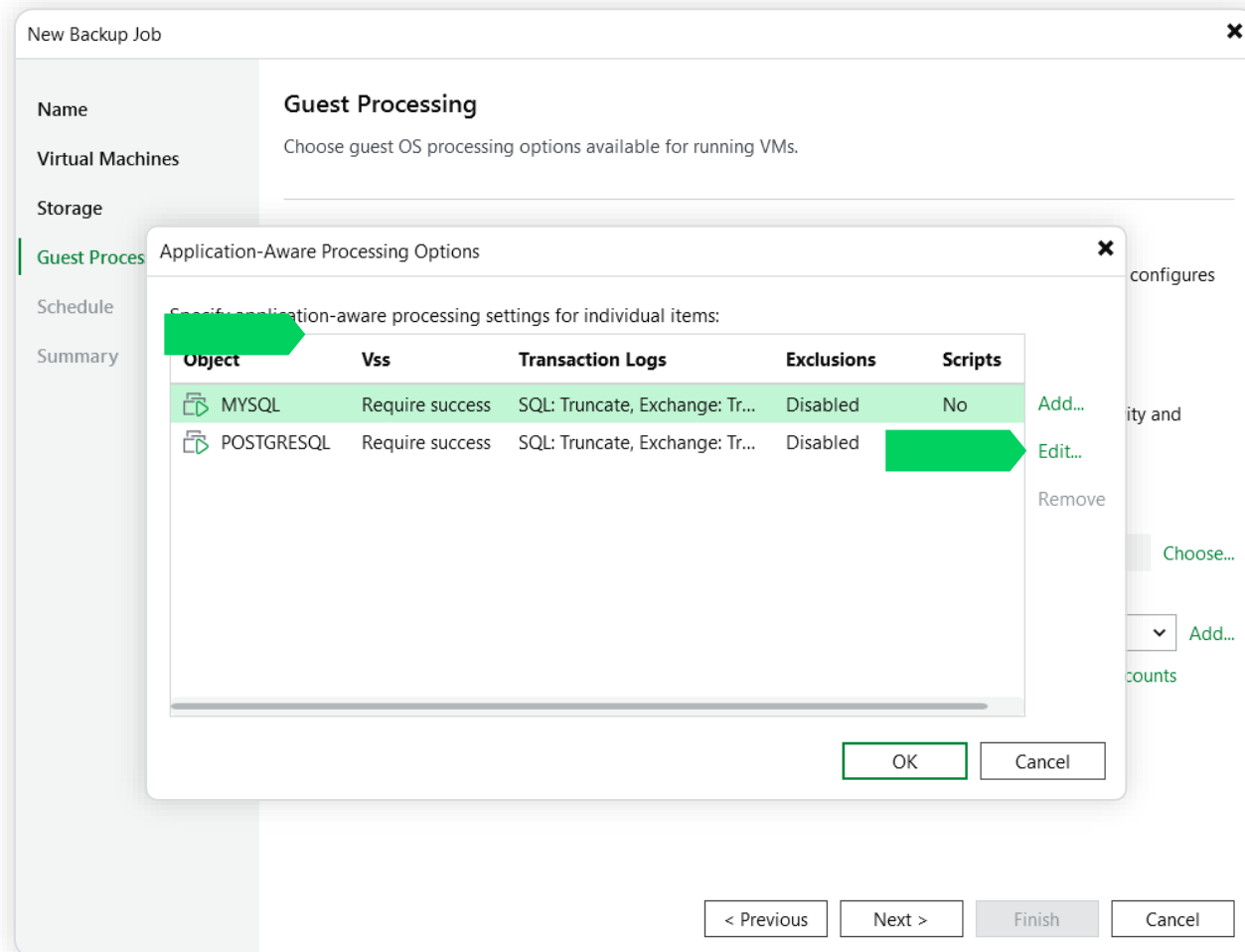
Run scripts every 1 backup session

Run scripts on the selected days only [Configure...](#)  
Saturday

Save As Default   OK   Cancel

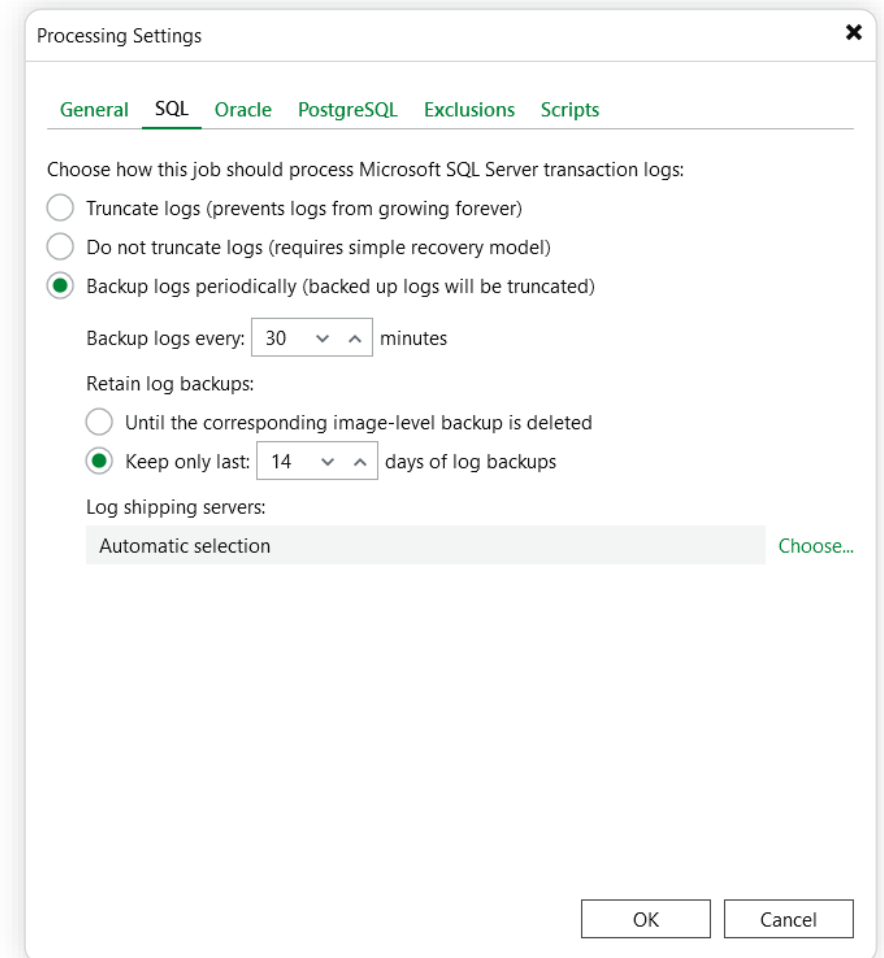
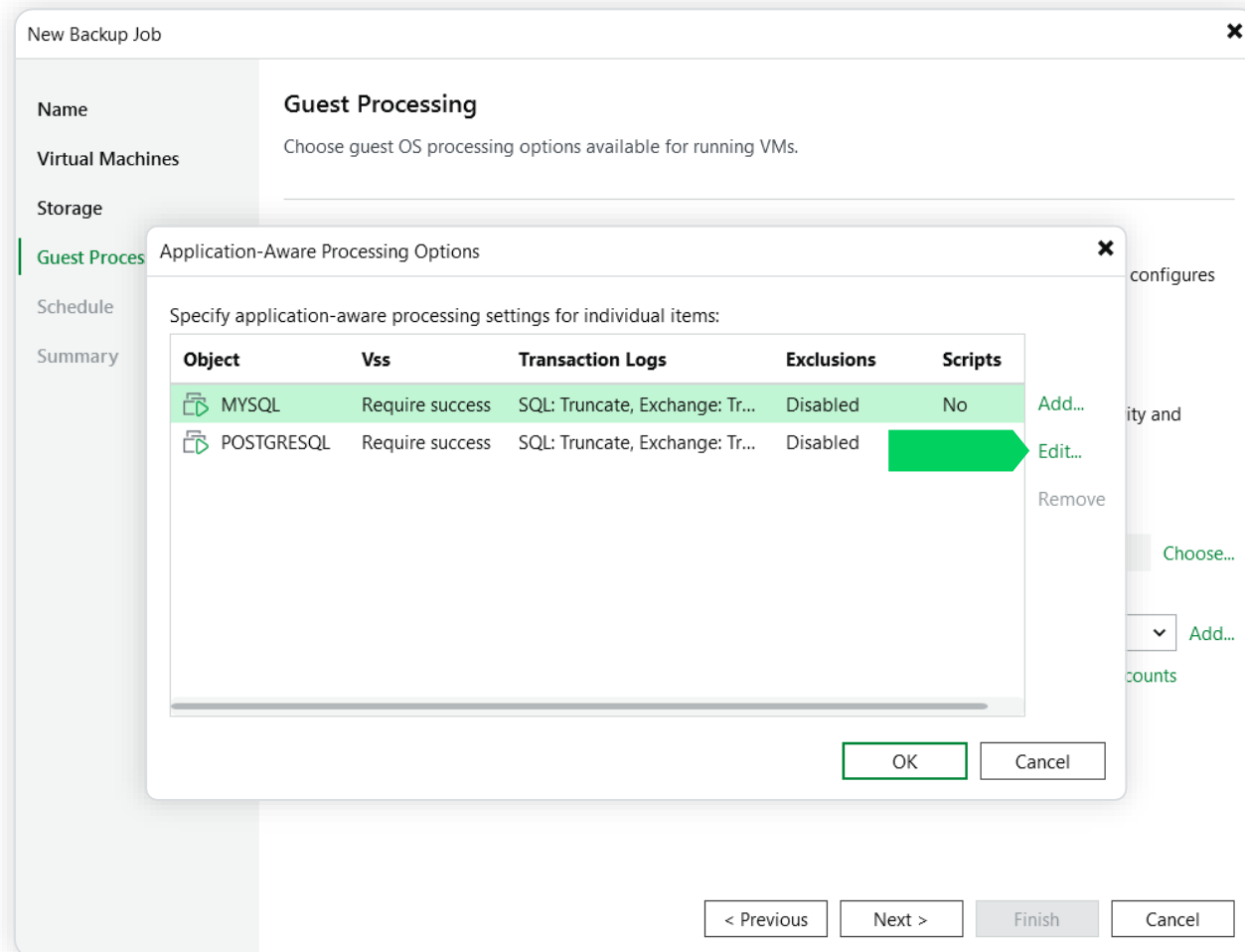
# Jobs

## Exemplo de processo de criação de um job de backup



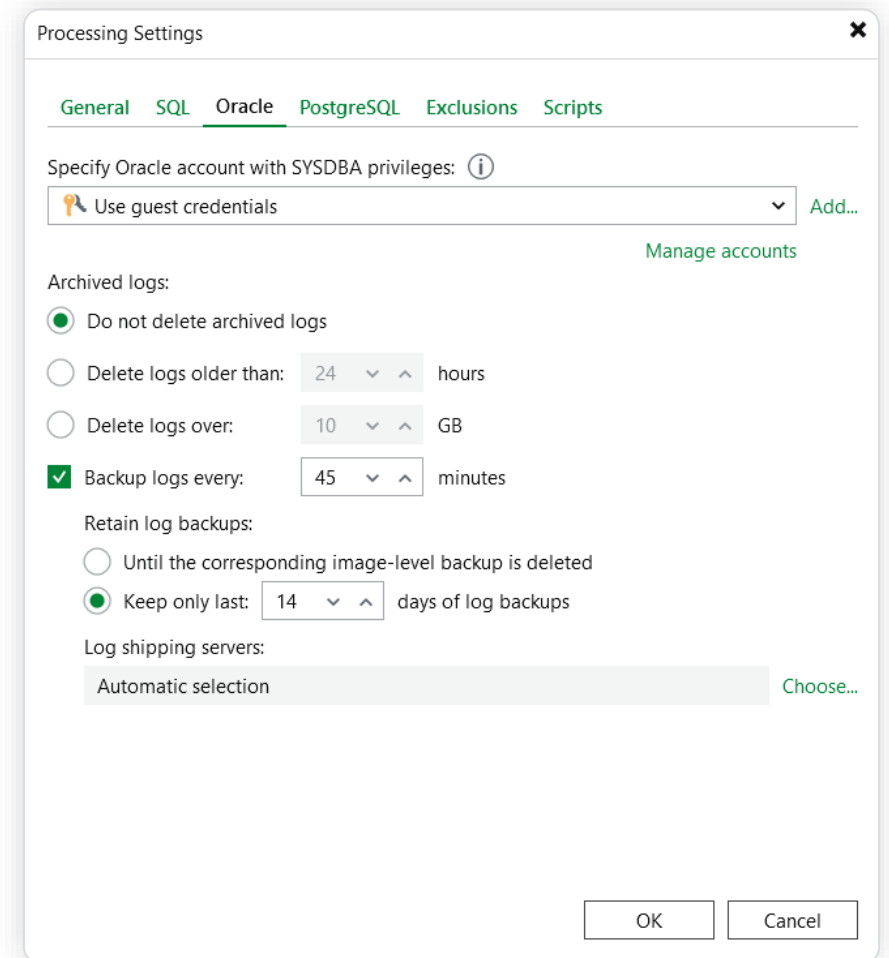
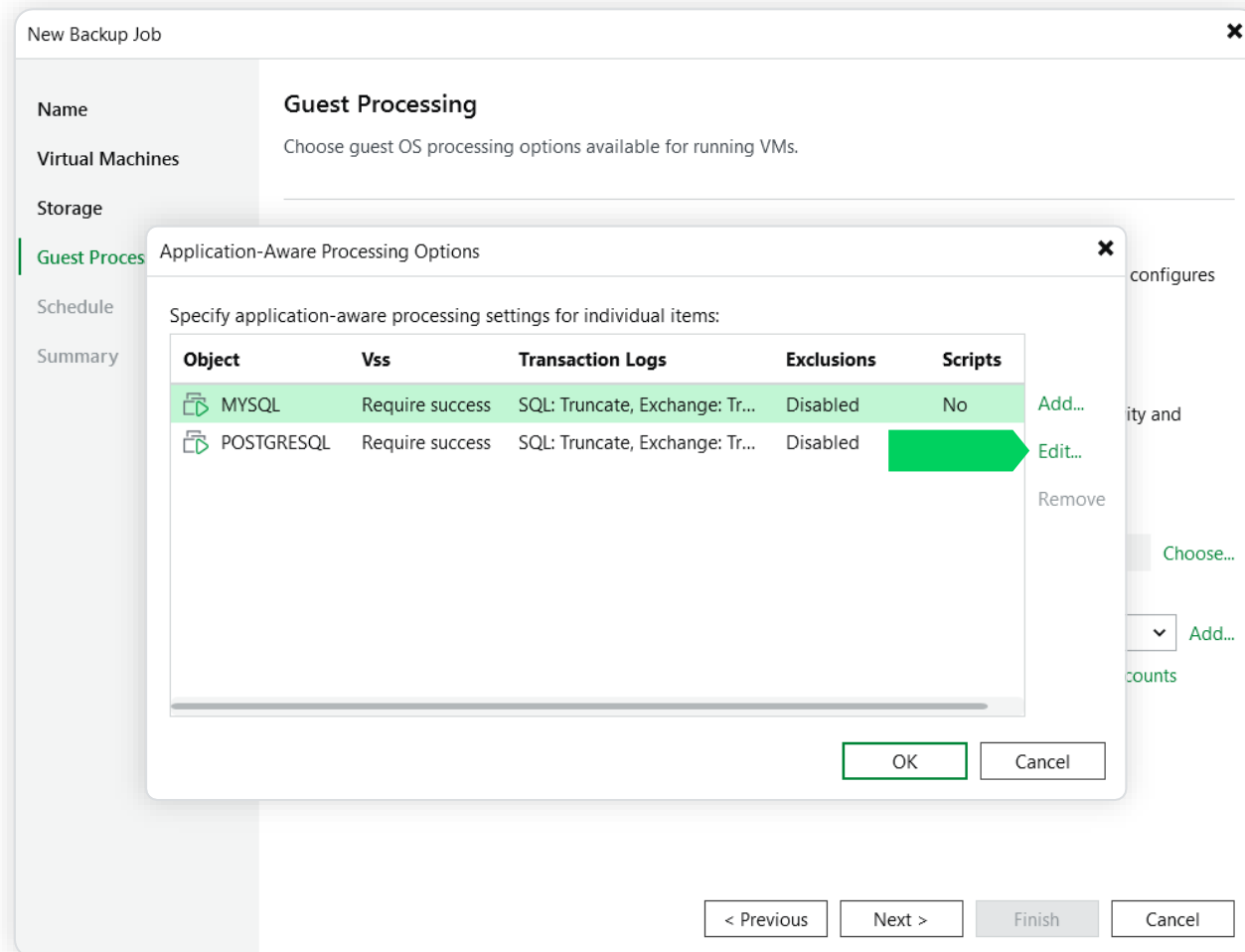
# Jobs

## Exemplo de processo de criação de um job de backup



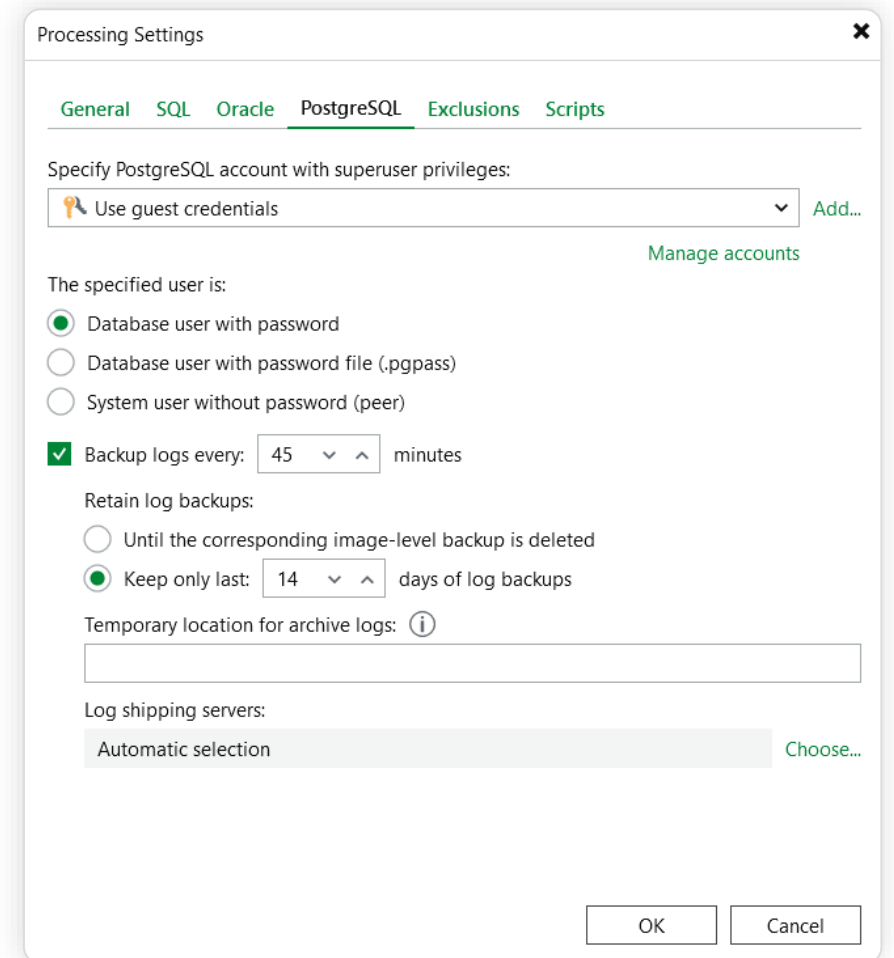
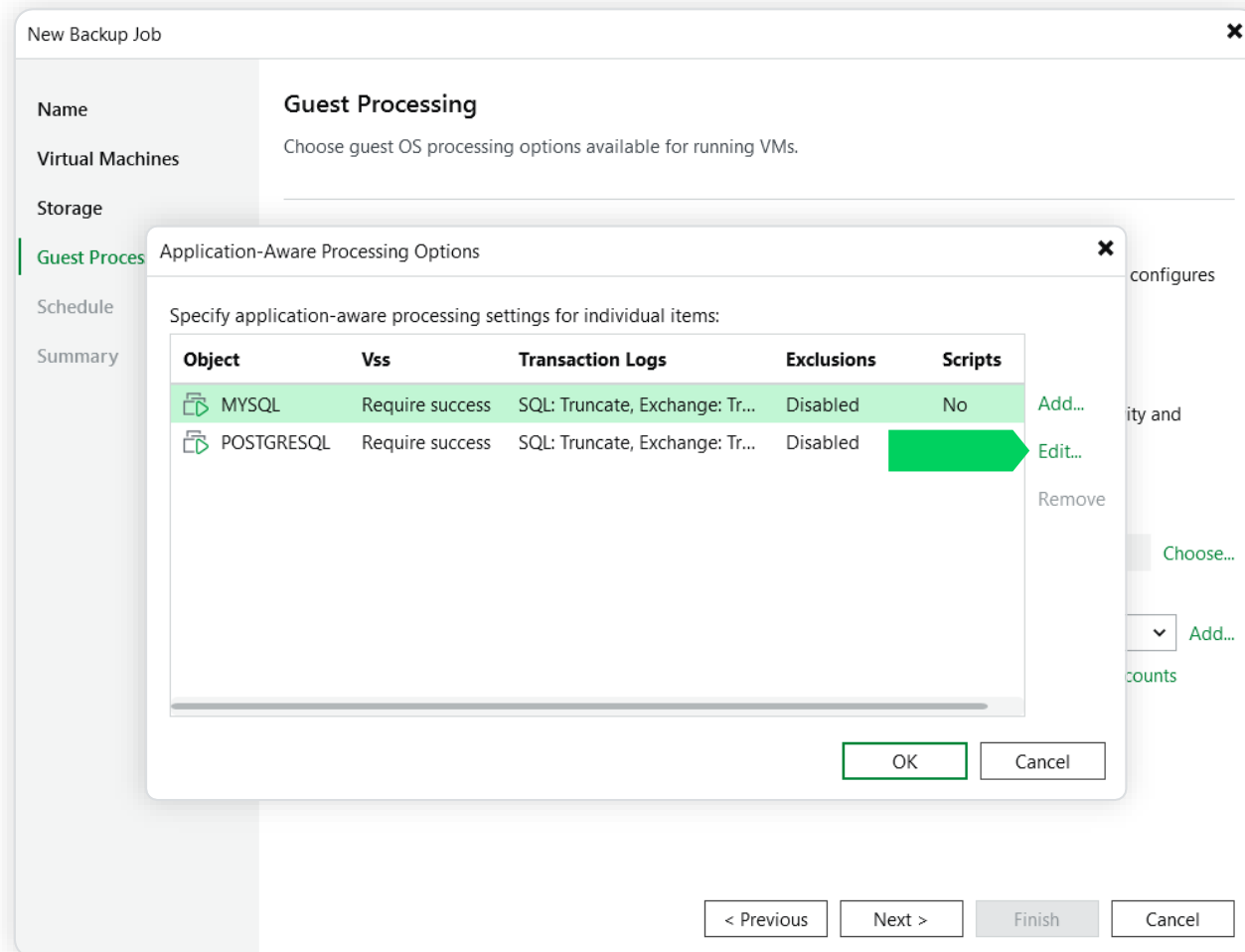
# Jobs

## Exemplo de processo de criação de um job de backup



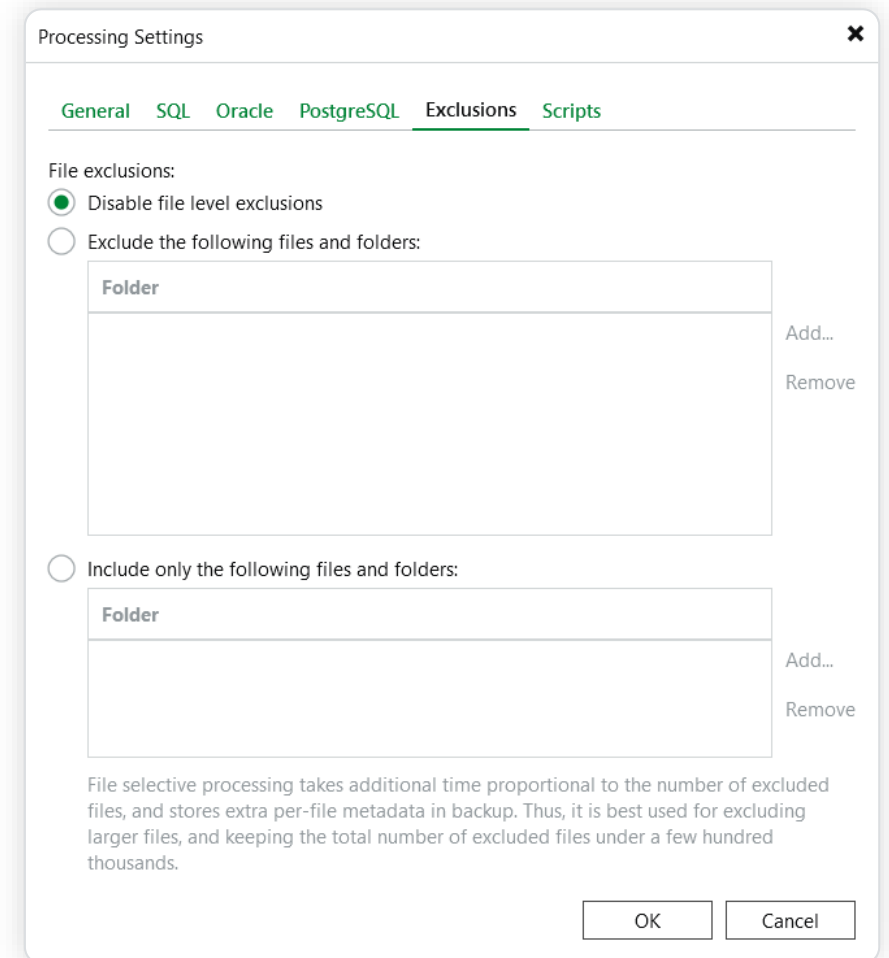
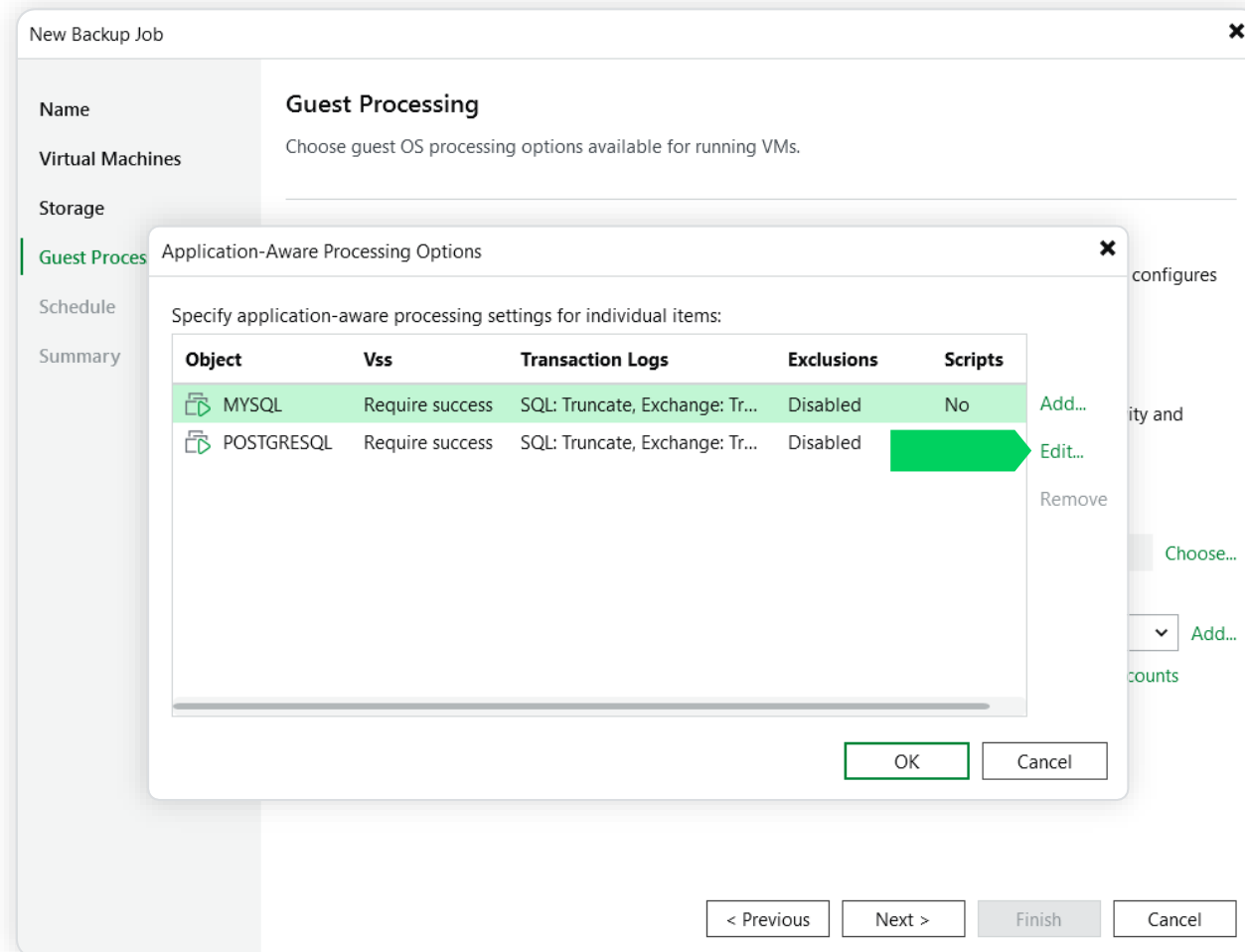
# Jobs

## Exemplo de processo de criação de um job de backup



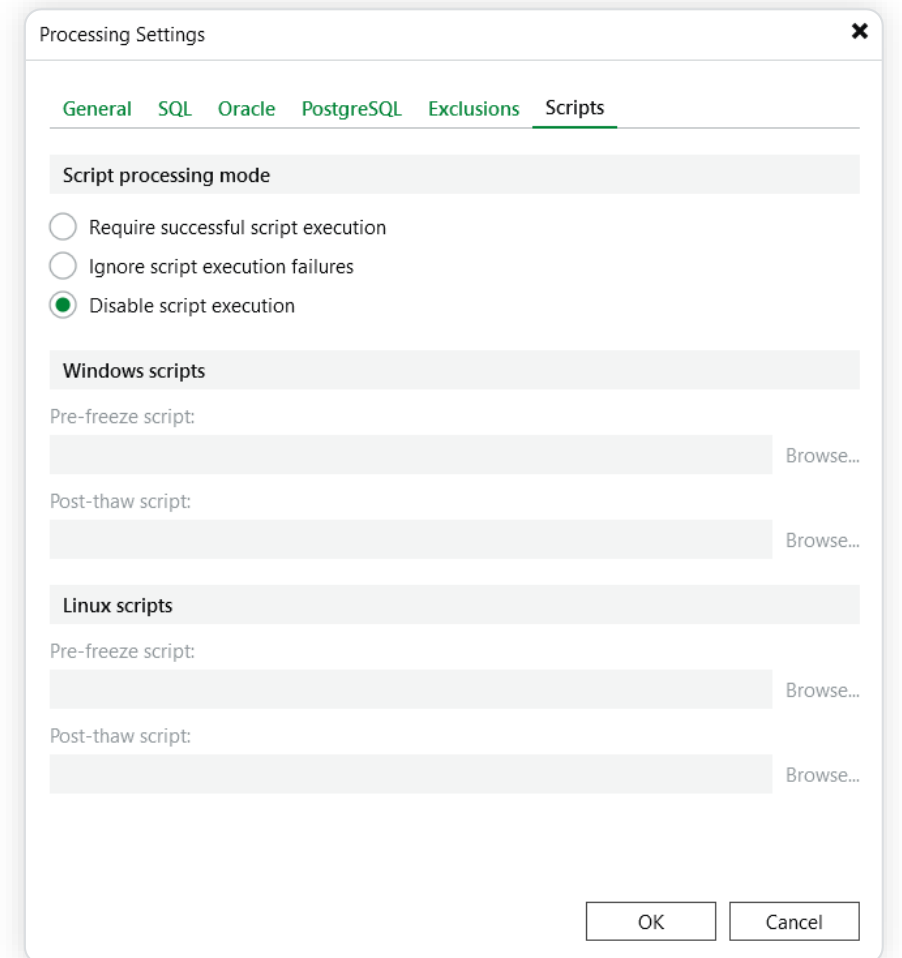
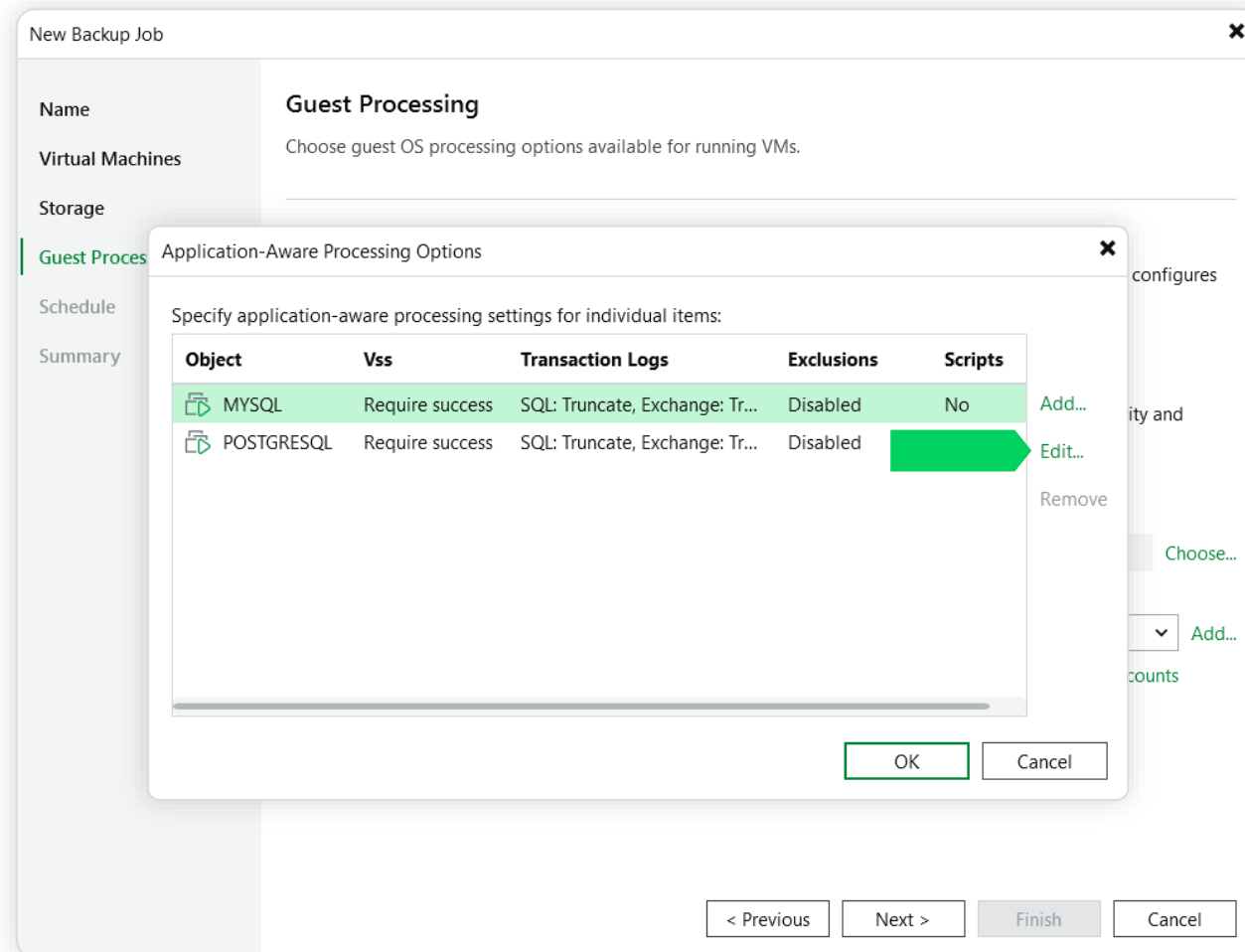
# Jobs

## Exemplo de processo de criação de um job de backup



# Jobs

## Exemplo de processo de criação de um job de backup



# Jobs

## Exemplo de processo de criação de um job de backup

New Backup Job ✕

**Name**

**Virtual Machines**

**Storage**

**Guest Processing**

**Schedule**

**Summary**

### Guest Processing

Choose guest OS processing options available for running VMs.

---

Enable application-aware processing  
Detects and prepares applications for consistent backup, performs transaction logs processing, and configures the OS to perform required application restore steps upon first boot.  
[Application handling options for individual machines](#)

Enable guest file system indexing and malware detection  
Indexing enables global file search functionality, automatic detection of suspicious file system activity and known malware files.  
[Indexing options for individual machines](#)

Guest interaction proxy:  
Automatic selection Choose...

Guest OS credentials:  
 Add...  
[Manage accounts](#)

[Guest OS credentials for individual machines](#)

[Verify network connectivity and credentials](#)

< Previous Next > Finish Cancel



# Jobs

## Exemplo de processo de criação de um job de backup

New Backup Job ✕

**Name**

**Virtual Machines**

**Storage**

**Guest Processing**

**Schedule**

**Summary**

**Summary**

You have successfully created the new backup job.

---

Configuration has been successfully saved.  
Name: Backup Job Example  
Target Path: C:\BACKUPS  
Type: VMware Backup  
Enable application-aware processing  
Enable guest file system indexing  
Source items:  
    MYSQL (10.0.0.240)  
    POSTGRESQL (10.0.0.240)

PowerShell cmdlet for starting the job:  
Get-VBRJob -Name "Backup Job Example" | Start-VBRJob

Run the job when I click Finish

< Previous    Next >    **Finish**    Cancel



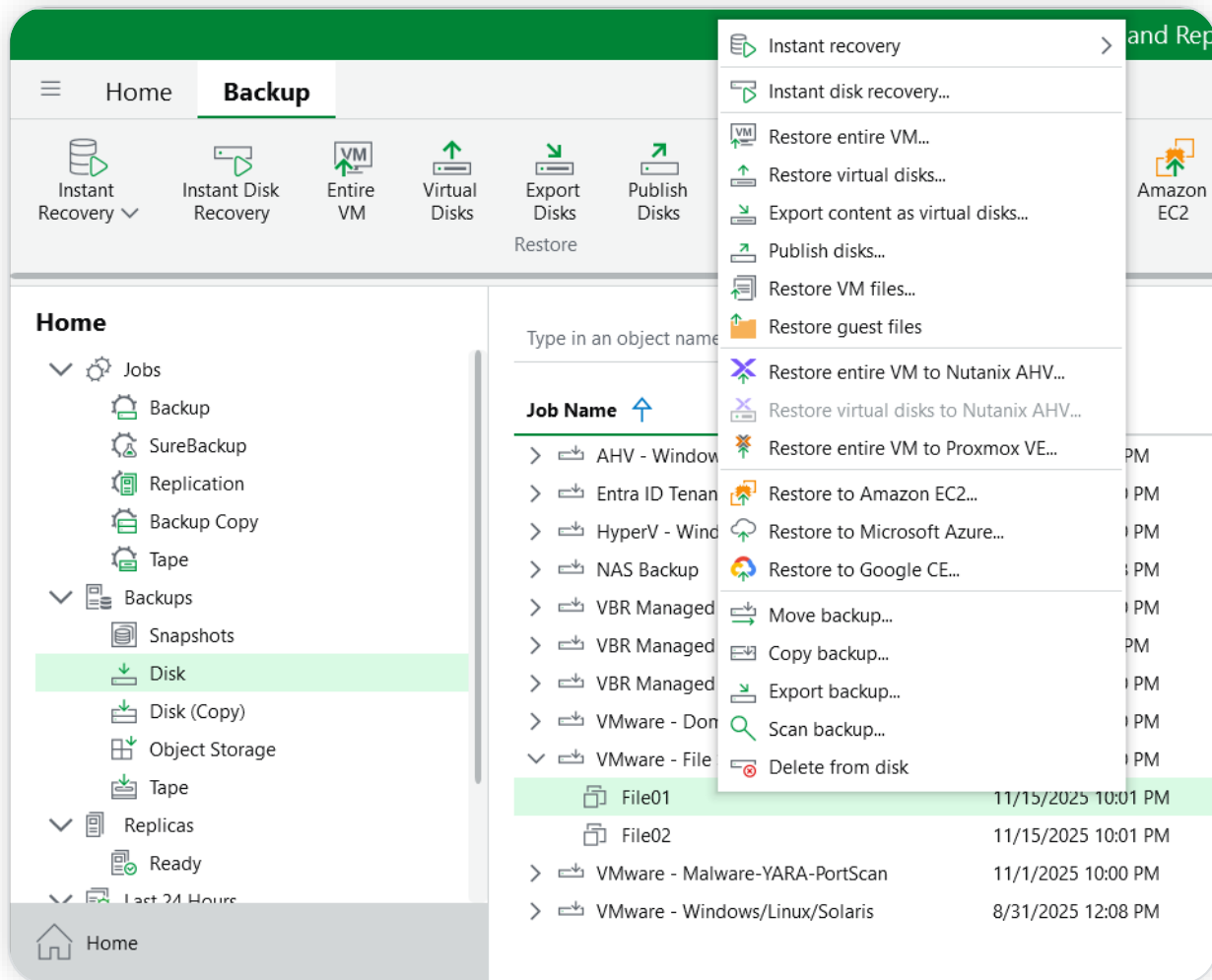
**Vamos fazer + uma  
pausa de 5 minutos**

The background features a smooth gradient from dark blue on the left to light green on the right. Overlaid on this are several sets of thin, wavy lines that create a sense of motion and depth. One set of lines is in a light blue color, curving upwards from the bottom left towards the center. Another set is in a light green color, curving downwards from the top right towards the center. The word "Restore" is positioned on the left side of the image, centered vertically relative to the middle of the frame.

Restore

# Tipos de Restore

Existem várias opções de Restore.



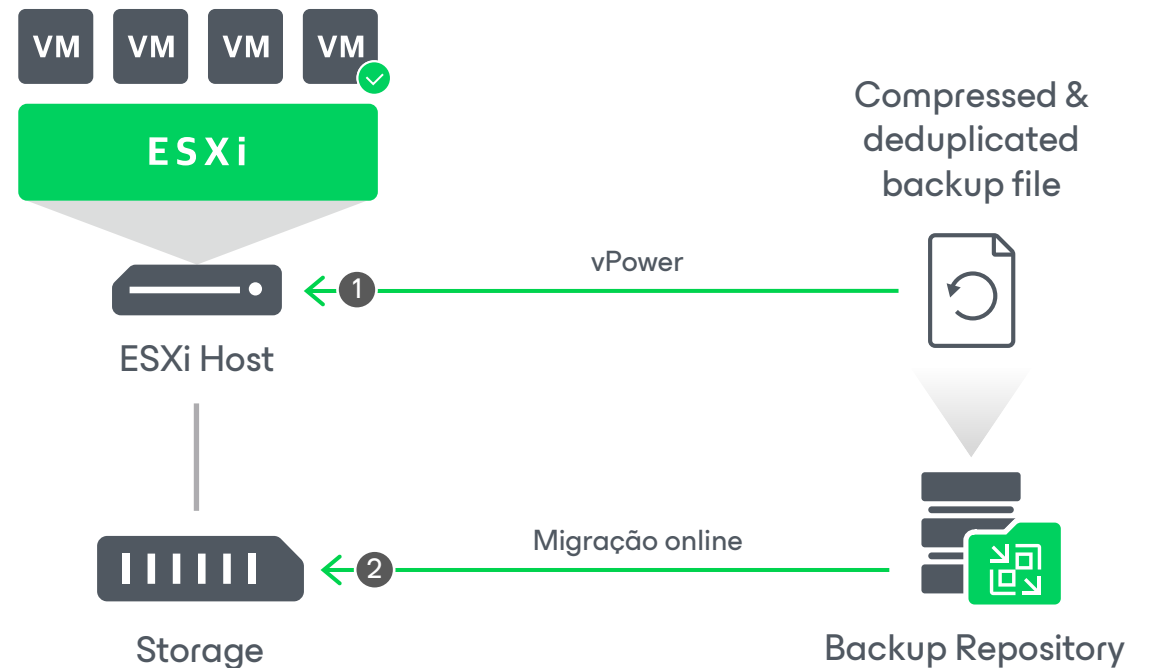
- Entire VM restore
- Instant recovery
- Virtual disks restore
- Instant disk recovery
- VM files restore
- Guest files restore
- **Application items restore**
- Restore to Amazon EC2; Azure; Google CE
- Restore to Nutanix AHV
- Restore to Proxmox VE
- Export content as virtual disks
- Publish disks

# Instant Recovery

Com o Instant Recovery você quase consegue **imediatamente** restaurar uma VM no seu ambiente de produção rodando-a diretamente a partir do arquivo de backup mesmo com compress e dedup.

Instant Recovery ajuda a melhorar os objetivos de tempo de recuperação, minimizar interrupções e tempos de inatividade das VMs de produção.

Instant Recovery pode ser usado para restaurar dados de um tipo de **Hypervisor** em outro, da mesma forma você pode restaurar de um **Servidor Físico** para **Virtual** vice-versa.

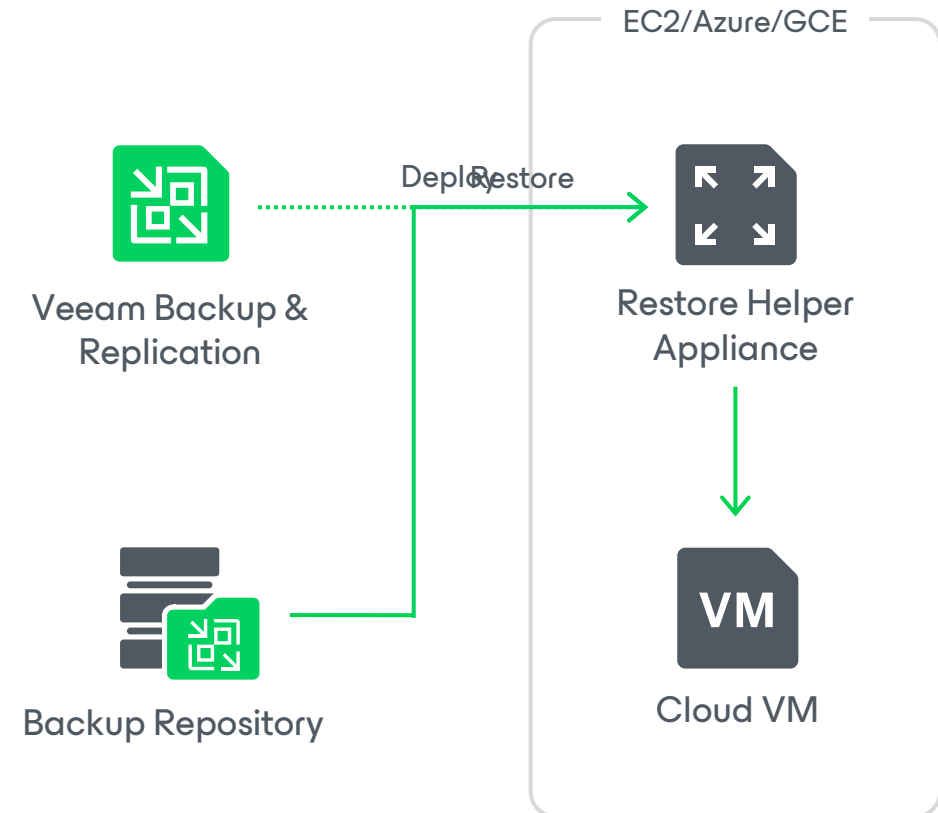


# Restore para Cloud (AWS, Azure ou Google)

Permite restaurar **VMs e workloads físicos** para a nuvem.

No caso de **Amazon EC2** e **Google CE**, o VBR implanta automaticamente o Helper Appliance para auxiliar apenas durante o processo de restauração e o remove imediatamente em seguida. O Helper Appliance **é opcional**, no entanto, pode melhorar significativamente a **performance durante o processo de restore**.

Para **Azure** o Helper Appliance **é obrigatório e persistente**. Após o término do processo de restauração, os appliances auxiliares são desligados e permanecem no Azure. Appliances permanecem no estado desligado até que você inicie um novo processo de restauração.



# Guest files Restore (FLR)

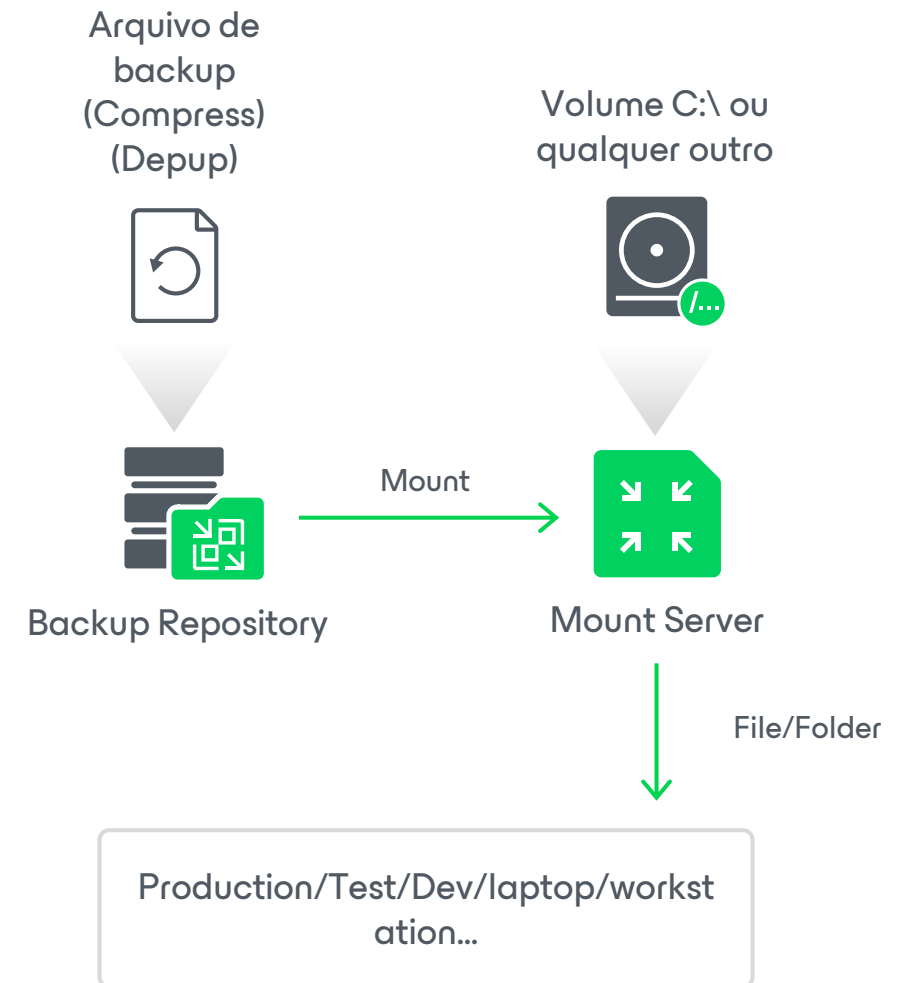
É possível restaurar **Arquivos específicos** diretamente do Guest OS, sem a necessidade de restaurar toda a VM ou Servidor físico.

## Fontes de recuperação suportadas:

Backups, Replicas, Storage Snapshots, Nutanix AHV Snapshots

## Sistemas de arquivos suportados:

- **Windows:** FAT, FAT32, NTFS, ReFS
- **Linux:** ext2, ext3, ext4, ReiserFS, JFS, XFS, Btrfs, NTFS
- **BSD, Mac, Solaris** também são suportados



# Application Items

Explorers estão disponíveis para as seguintes aplicações:

Microsoft Active Directory

Microsoft SQL Server

Oracle PostgreSQL

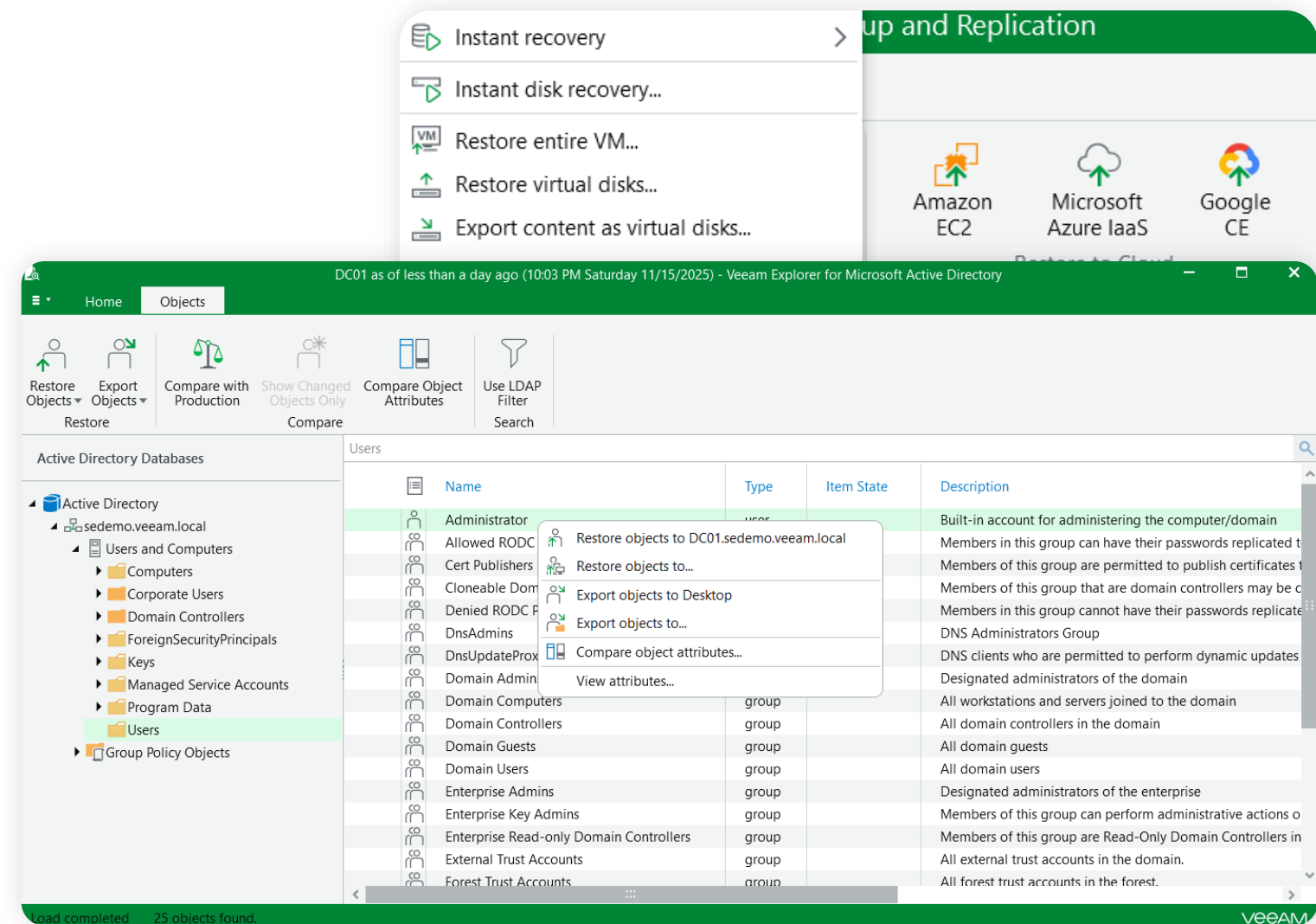
Microsoft Exchange

Microsoft SharePoint

Microsoft OneDrive for Business

Microsoft Teams

Para usá-los, certifique-se de que seus backups e/ou réplicas estejam criados com App-aware Process ativado no Job.



# Como restaurar uma VM?

The screenshot shows the Veeam Backup & Replication console. The 'Backup' tab is active. In the top navigation bar, the 'Entire VM' button is highlighted with a green arrow and a '2' in a circle. In the left sidebar, the 'Disk' backup is selected with a green arrow and a '1' in a circle. A context menu is open over the selected backup, with 'Restore entire VM...' highlighted.

Job Name	Time
> AHV - Wind	11/15/2025 10:02 PM
> Entra ID Ten	11/15/2025 10:00 PM
> HyperV - W	11/15/2025 10:00 PM
> NAS Backup	11/15/2025 10:38 PM
> VBR Manag	11/15/2025 10:00 PM
> VBR Manag	11/15/2025 10:00 PM
> VBR Manag	11/15/2025 10:00 PM
> VMware - D	11/15/2025 10:00 PM
> VMware - F	11/15/2025 10:00 PM
File01	11/15/2025 10:01 PM
File02	11/15/2025 10:01 PM
> VMware - Malware-YARA-PortScan	11/1/2025 10:00 PM
> VMware - Windows/Linux/Solaris	8/31/2025 12:08 PM

# Como restaurar uma VM?

Entire VM Restore

**Virtual Machines**  
Select virtual machines to be restored. You can add individual virtual machines from backup files, or containers from live environment (containers will be automatically expanded into plain VM list).

Virtual Machines

Restore Mode

Secure Restore

Reason

Summary

Virtual machines to restore:

Type in a VM name for instant lookup

Name	Size	Restore point
DC01	100 GB	less than a day ago (10:03 PM Sa...

Add...

Point...

Remove

Restore Points


Available restore points for DC01:


Job	Type	Tapes	Backup set date	Media pool	Media set
VMware - Domain Controller (Primary on Premises Repository)					
less than a day ago (10:03 PM Saturday 11/15/2025)	Full (W)				
7 days ago (10:03 PM Saturday 11/8/2025)	Full				
14 days ago (10:03 PM Saturday 11/1/2025)	Full				
VMware - Domain Controller on Tape					
73 days ago (10:09 AM Wednesday 9/3/2025)	Full	SW0BJ006, SW...	73 days ago ...	GFS Media Pool	Daily media s...

< Previous   Next >   Finish   Cancel

# Como restaurar uma VM?

Entire VM Restore ✕

 **Restore Mode**  
Specify whether selected VMs should be restored back to the original location, or to a new location or with different settings.

Virtual Machines 


**Restore Mode**

Secure Restore

Reason

Summary

- Restore to the original location**  
Quickly initiate the restore of selected VM to its original location, with the original name and settings. This option minimizes the chance of user input error.
- Restore to a new location, or with different settings**  
Customize the restored VM location, and change its settings. The wizard will automatically populate all controls with the original VM settings as the defaults.
- Staged restore**  
Run the selected VM directly from backup files in the isolated DataLab to make changes to the guest OS or applications prior to placing the VM into production environment.  
[Pick proxy to use](#)

  **Quick rollback (restore changed blocks only)**  
Allows for quick VM recovery in case of guest OS software problem, or user error. Do not use this option when recovering from disaster caused by hardware or storage issue, or power loss.

< Previous   Next >   Finish   Cancel

# Como restaurar uma VM?

Entire VM Restore

**Restore Mode**  
Specify whether selected VMs should be restored back to the original location, or to a new location or with different settings.

Virtual Machines

**Restore Mode**

Host

Resource Pool

Datastore

Folder

Network

Secure Restore

Reason

Summary

**Restore to the original location**  
Quickly initiate the restore of selected VM to its original location, with the original name and settings. This option minimizes the chance of user input error.

**Restore to a new location, or with different settings**  
Customize the restored VM location, and change its settings. The wizard will automatically populate all controls with the original VM settings as the defaults.

**Staged restore**  
Run the selected VM directly from backup files in the isolated DataLab to make changes to the guest OS or applications prior to placing the VM into production environment.

[Pick proxy to use](#)

**Quick rollback (restore changed blocks only)**  
Allows for quick VM recovery in case of guest OS software problem, or user error. Do not use this option when recovering from disaster caused by hardware or storage issue, or power loss.

< Previous   Next >   Finish   Cancel











# Como restaurar uma VM?

Entire VM Restore

**Secure Restore**  
Scan the selected backup for malware, such as computer viruses or ransomware, prior to performing the restore. This requires a compatible antivirus installed on the mount server specified for the corresponding backup repository.

Virtual Machines

Restore Mode  Scan restore point with Veeam Threat Hunter

Host  Scan the restore point with the following YARA rule:

Resource Pool

[Copy YARA rules location to clipboard](#)

Datastore

Folder  If malware is found

Network

Secure Restore

Reason

Summary

Scan options:

Proceed with recovery but disable network adapters


Abort VM recovery

Continue scanning all remaining files after the first occurrence

< Previous   Next >   Finish   Cancel

# Como restaurar uma VM?

Entire VM Restore ×

 **Reason**  
Type in the reason for performing this restore operation. This information will be logged in the restore sessions history for later reference.

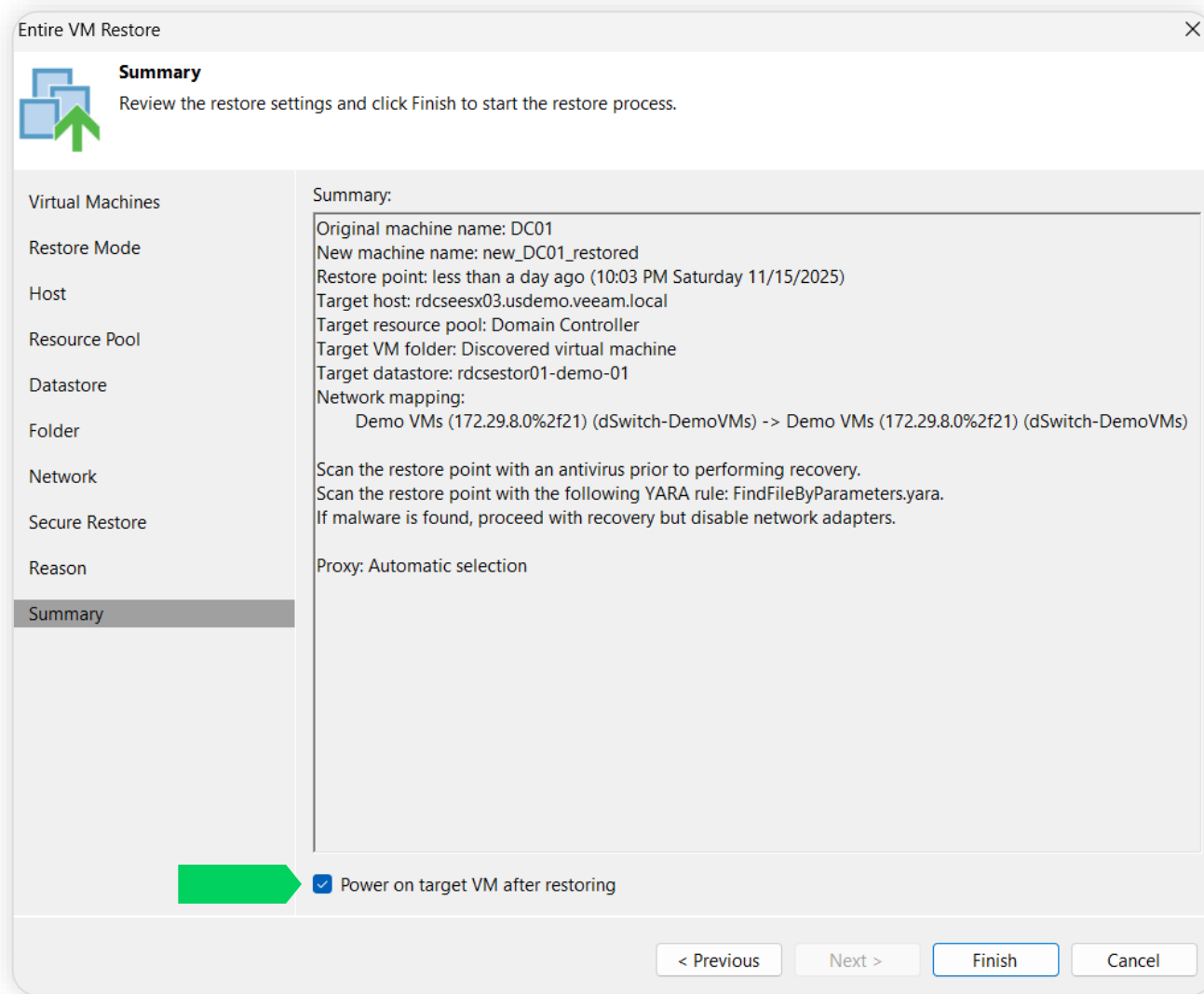
Virtual Machines  
Restore Mode  
Host  
Resource Pool  
Datastore  
Folder  
Network  
Secure Restore  
**Reason**  
Summary

Restore reason:

Do not show me this page again

< Previous   Next >   Finish   Cancel

# Como restaurar uma VM?



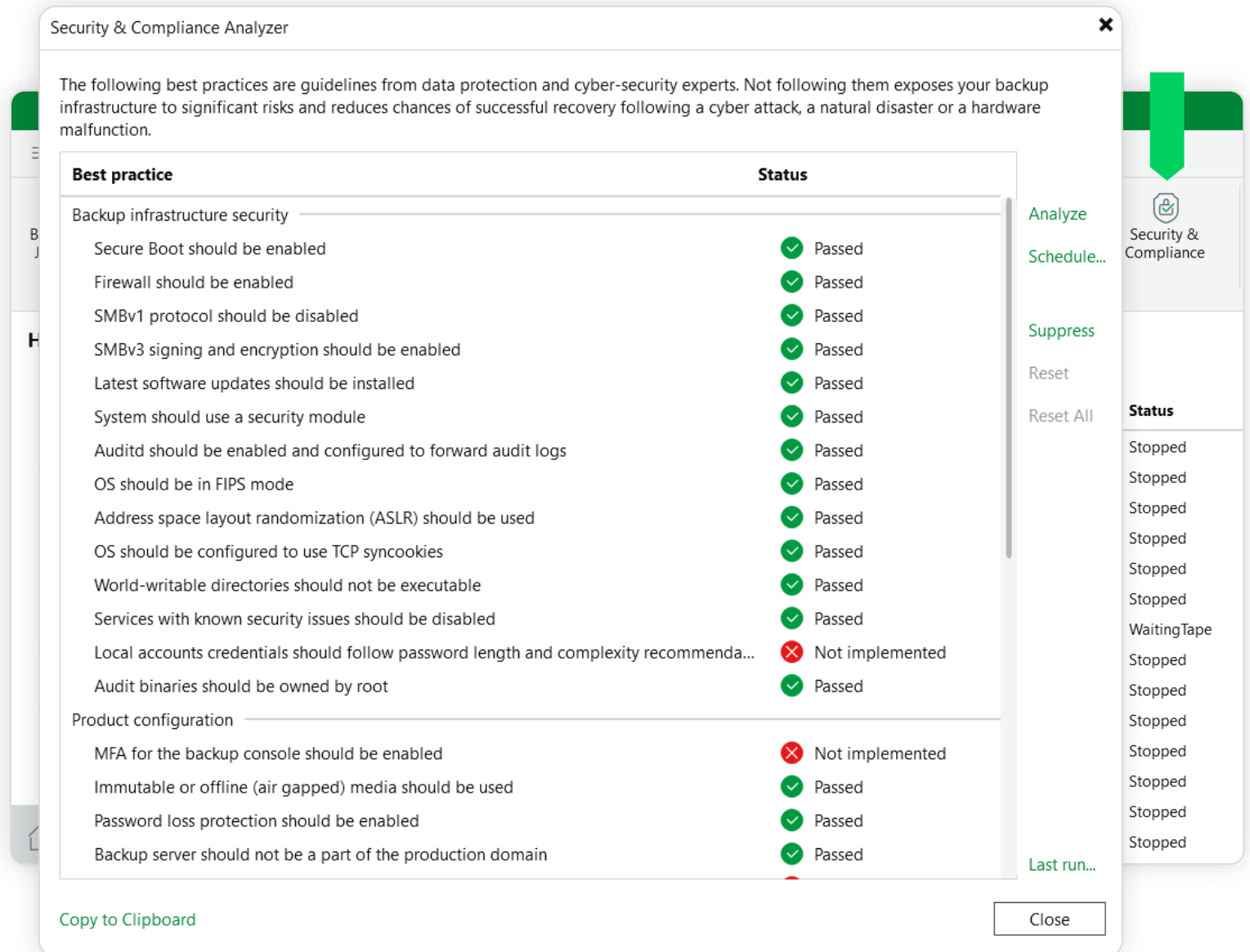
Segurança

# Melhores Práticas: Segurança & Resiliência

## Security & Compliance Analyzer

Veeam Backup & Replication  
Fornece uma ferramenta  
embutida para garantir que a  
configuração do seu servidor de  
backup siga o exemplo de  
**Melhores práticas de segurança**  
para componentes de  
infraestrutura de backup em  
geral baseados nos sistemas  
operacionais Microsoft Windows  
Server e Linux.

Inclui **14 Security Checks** & **23  
Product Configuration Checks**  
ate a versão atual.



The following best practices are guidelines from data protection and cyber-security experts. Not following them exposes your backup infrastructure to significant risks and reduces chances of successful recovery following a cyber attack, a natural disaster or a hardware malfunction.

Best practice	Status
<b>Backup infrastructure security</b>	
Secure Boot should be enabled	✓ Passed
Firewall should be enabled	✓ Passed
SMBv1 protocol should be disabled	✓ Passed
SMBv3 signing and encryption should be enabled	✓ Passed
Latest software updates should be installed	✓ Passed
System should use a security module	✓ Passed
Auditd should be enabled and configured to forward audit logs	✓ Passed
OS should be in FIPS mode	✓ Passed
Address space layout randomization (ASLR) should be used	✓ Passed
OS should be configured to use TCP syncookies	✓ Passed
World-writable directories should not be executable	✓ Passed
Services with known security issues should be disabled	✓ Passed
Local accounts credentials should follow password length and complexity recommenda...	✗ Not implemented
Audit binaries should be owned by root	✓ Passed
<b>Product configuration</b>	
MFA for the backup console should be enabled	✗ Not implemented
Immutable or offline (air gapped) media should be used	✓ Passed
Password loss protection should be enabled	✓ Passed
Backup server should not be a part of the production domain	✓ Passed

Copy to Clipboard Close

Buttons: Analyze, Schedule..., Suppress, Reset, Reset All, Last run...

Security & Compliance Status: Stopped, Stopped, Stopped, Stopped, Stopped, Stopped, WaitingTape, Stopped, Stopped, Stopped, Stopped, Stopped, Stopped, Stopped, Stopped

# Melhores Práticas: Segurança & Resiliência

## Multi-Factor Authentication

Veeam Backup & Replication suporta **multi-factor authentication (MFA)** como verificação adicional do usuário.

O **one-time password (OTP)** Gerado no aplicativo de autenticação móvel é usado como um segundo método de verificação. Combinado com **login e senha**, esse processo cria um ambiente mais seguro e protege contas de usuário contra comprometimentos.

The screenshot shows the 'Users & Roles' configuration window in Veeam Backup & Replication. The 'Security' tab is active, and the 'Configure multi-factor authentication (MFA)' dialog box is open. The dialog box contains the following steps:

1. Scan the QR code with your Authenticator app:  
A QR code is displayed on the left. To the right, it says 'Or enter the following key manually:' followed by a text input field containing the key 'JJWESMSVLFJVURTU'.
2. Enter the one-time code shown in the app:  
A text input field with the placeholder 'Type in the code' is shown. Below it is a green 'Confirm' button.

Below the dialog box, in the main configuration area, there are two checkboxes:

- Enable multi-factor authentication (MFA)
- Enable auto logoff after 10 min of inactivity

At the bottom right of the window are 'OK' and 'Cancel' buttons.

# Melhores Práticas: Segurança & Resiliência

## Four-Eyes Authorization

Esse recurso previne acidentes ou erros **Exclusão de backups** ou **repositórios inteiros de backup**, **Mudanças de usuários**, **roles e outras configurações de acesso** usando um console de backup exigindo um **aprovação de um segundo Veeam Backup Administrator** antes de aplicar as alterações nessas configurações sensíveis do servidor de backup podem ser aplicadas.

Todos os eventos relacionados à autorização dos quatro olhos são exibidos no **History**, em **Authorization Events**.

The screenshot displays the Veeam Backup and Replication console interface. At the top, a 'Users & Roles' window is open, with the 'Authorization' tab selected. Below it, a 'Veeam Backup and Replication' dialog box prompts for approval: 'This sensitive operation will not be executed until another administrator approves it. You can cancel pending operations at any time, or wait for them to expire automatically. Submit the operation for approval?' with 'Yes' and 'No' buttons.

The main console window shows a 'Home' view with a navigation bar and a table of pending approvals. The table has columns for Name, Initiated by, Initiated at, and Expires at.

Name	Initiated by	Initiated at	Expires at
Delete backup DT NAS (Copy) 2	usdemo.veeam.local\David.Tosoff	11/24/2025 4:48:47 PM	12/1/2025 4:48:47 PM
Delete backup NAS Backup (Copy) 1	usdemo.veeam.local\David.Tosoff	11/24/2025 4:40:40 PM	12/1/2025 4:40:40 PM
Delete multiple backups	usdemo.veeam.local\David.Tosoff	11/24/2025 4:48:41 PM	12/1/2025 4:48:41 PM

# Melhores Práticas: Segurança & Resiliência

## Detecção de Malware (Malware Detection)

A Detecção de Malware com Veeam é focada em detectar malware e atividades suspeitas tanto na infraestrutura de produção quanto na de backup, além de enviar notificações sobre isso.

A partir da versão 12.1 do Veeam, podemos identificar até mesmo o malware adormecido em produção. Também é possível escanear os backups já realizados e armazenados no repositório e descobrir se há alguma ameaça escondida em seu ambiente de backup.



# Melhores Práticas: Segurança & Resiliência

Detecção de Malware. Varredura de conteúdo sob demanda em malwares.

Aproveita o scan do seu **Antivirus**, **Veeam Treat Hunter** e/ou **YARA**.

Fornece **Três modos de varredura** com múltiplos alcances:

- Find (first) clean backup(s)
- Find clean backup in range
- Find content (e.g., credit card numbers)

A varredura acontece no backup/**mount server**.

Scan Backup

Performs an ad-hoc scan of your backups with an antivirus or YARA engine to find the latest malware-free restore point, or to detect a presence of specific data, such as personal information.

Scan mode:

- Find the last clean restore point  
Restore points will be scanned sequentially starting from the most recent one until the first malware-free backup is found. Use this option when a cyber-attack is known to have started recently.
- Find the last clean restore point in range  
Restore points will be scanned in the optimal order to identify the last clean backup with least scans possible. Use this option if you are unsure when an attack started or when dealing with a sleeping malware.
- Scan content of all restore points in range  
All restore points in range will be scanned sequentially. Use this option for backup content analysis with an applicable YARA rule, for example when looking for personally identifiable information (PII), personal health information (PHI) or payment card industry (PCI) data.

Scan engine:

- Scan restore points with Veeam Threat Hunter
- Scan restore points with the following YARA rule:  
Select a YARA rule to use

Copy YARA rules location to clipboard

Scan range:

From:  Most recent restore point To:  Oldest available restore point

Start date: 11/16/2025  End date: 11/15/2025

Continue scanning all remaining files after the first occurrence

Hide Scan Range OK Cancel

# Melhores Práticas: Segurança & Resiliência

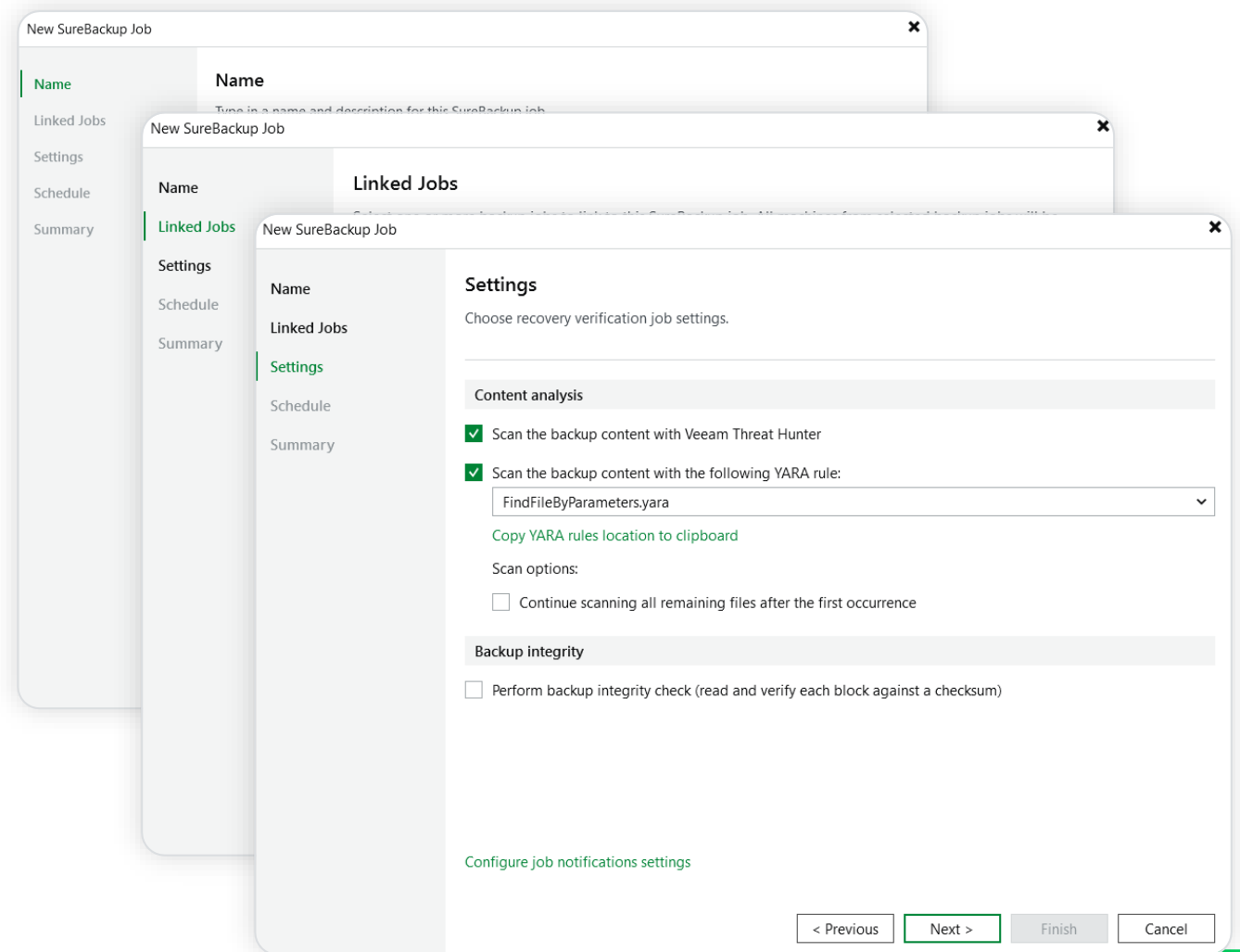
Detecção de Malware. Automatizado e Varreduras de Conteúdo.

Precisa ser ativado em um **SureBackup Job**.

Aproveita o scan do seu **Antivirus**, **Veeam Treat Hunter** e/ou **YARA**.

Escaneia o **Job de Backup** (Você pode usar exclusões se necessário).

A varredura acontece backup/**mount server**.



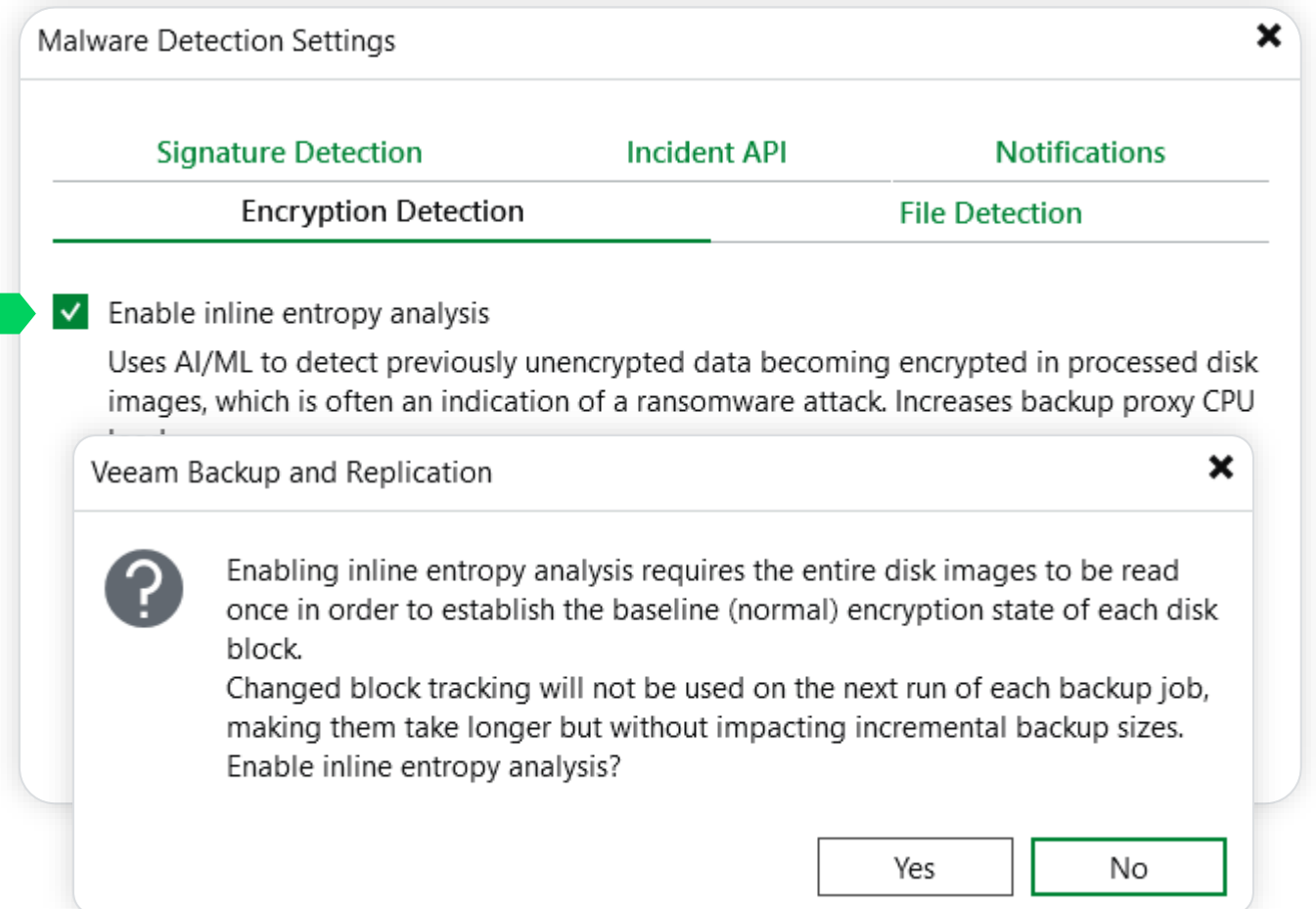
# Melhores Práticas: Segurança & Resiliência

## Detecção de Malware. Inline Scan: Encryption & Text Analysis.

Analisa dados em nível de bloco durante o backup.

Usando modelo de IA / Machine Learning e uma análise de entropia detalhada, e o VBR pode detectar dados criptografados por ransomware.

O mesmo mecanismo detecta outros sinais de malware ou ciberataque como links Onion, diretamente no fluxo de backup.



The screenshot shows the 'Malware Detection Settings' window with three tabs: 'Signature Detection', 'Incident API', and 'Notifications'. Under 'Signature Detection', there are two sub-sections: 'Encryption Detection' and 'File Detection'. A green arrow points to the 'Enable inline entropy analysis' checkbox, which is checked. Below it, a text box explains: 'Uses AI/ML to detect previously unencrypted data becoming encrypted in processed disk images, which is often an indication of a ransomware attack. Increases backup proxy CPU...'. A warning dialog box from 'Veeam Backup and Replication' is overlaid on top, containing a question mark icon and the text: 'Enabling inline entropy analysis requires the entire disk images to be read once in order to establish the baseline (normal) encryption state of each disk block. Changed block tracking will not be used on the next run of each backup job, making them take longer but without impacting incremental backup sizes. Enable inline entropy analysis?'. At the bottom of the dialog are 'Yes' and 'No' buttons.

# Melhores Práticas: Segurança & Resiliência

Detecção de Malware. Como funciona a varredura em linha.

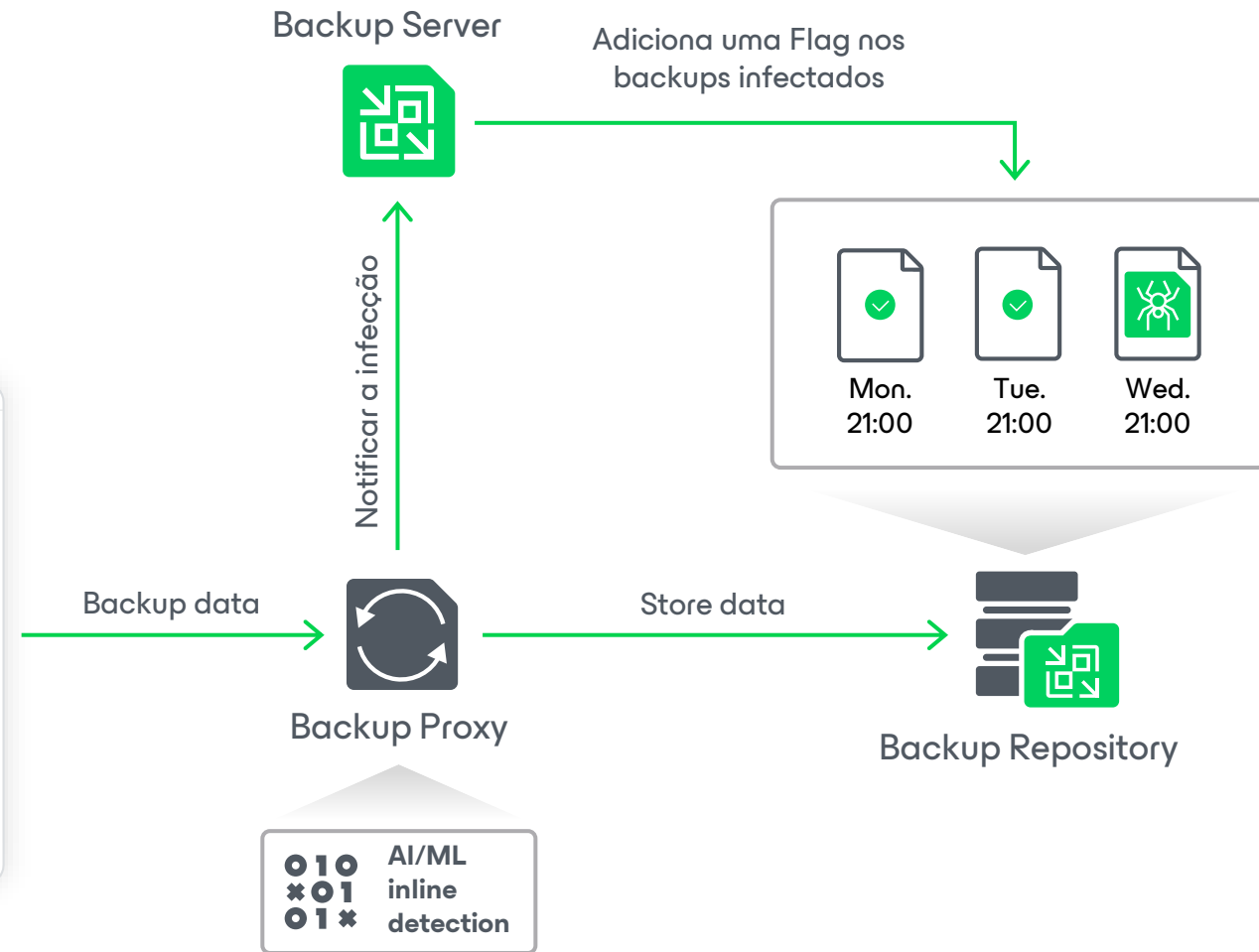
Backup Properties VMware - Malware-YARA-PortScan (Primary on Premises Repository)

Type in an object name to search for  Copy path: Malware  Show issues only

Name	Original Size	File Name	Data Size	Backup Size	Data Reduction	Date	Type	Status
MALWARE	90.0 GB	MALWARE.vm-2272D2025-11-22T...	90.0 GB	17.5 GB	5.1 x	11/22/2025 10:01:15 PM	Full	OK
PortScan	100 GB	MALWARE.vm-2272D2025-11-15T...	90.0 GB	17.5 GB	5.1 x	11/15/2025 10:14:54 PM	Full	OK
YARA	100 GB	MALWARE.vm-2272D2025-11-08T...	90.0 GB	17.8 GB	5.1 x	11/8/2025 10:27:40 PM	Full	OK

Total size: 290 GB Backup size: 52.9 GB Restore points: 3

Close

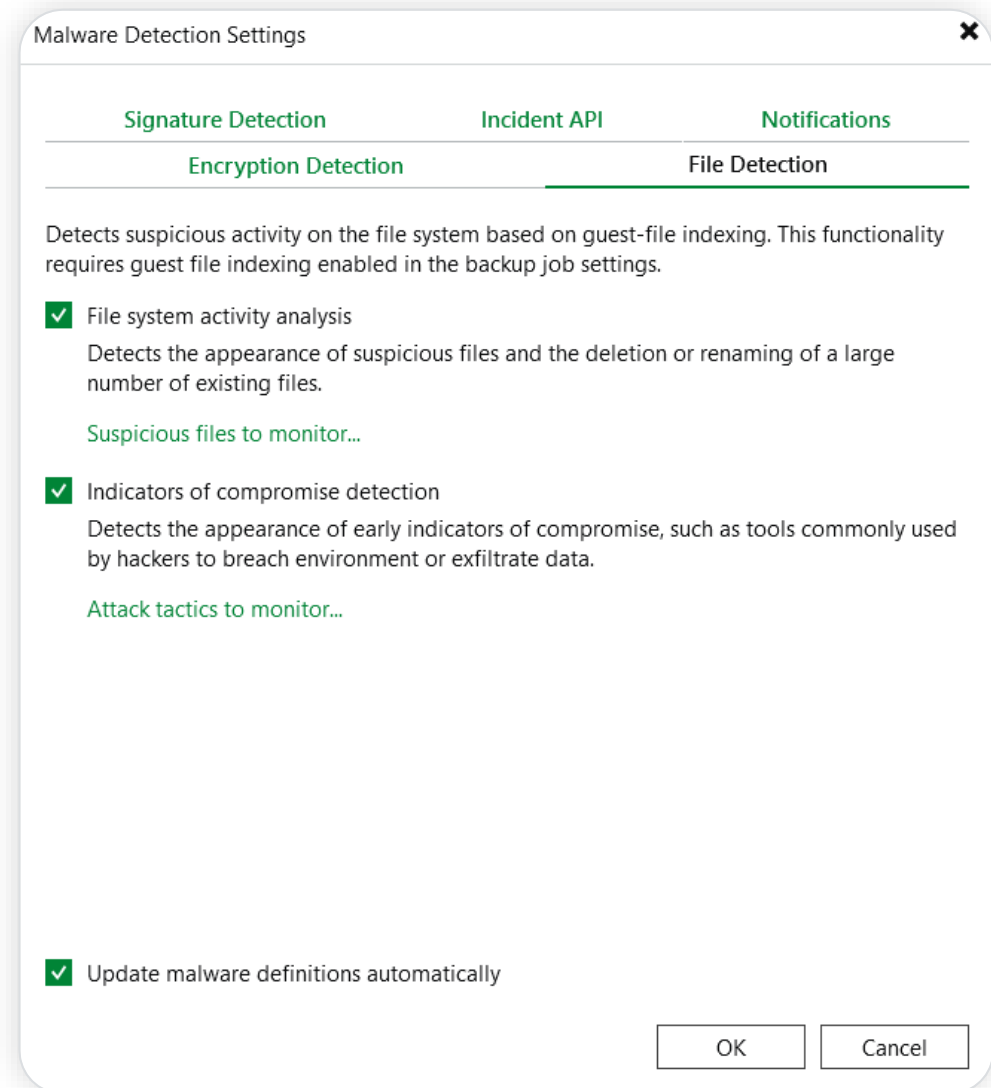


# Melhores Práticas: Segurança & Resiliência

## Detecção de malware. Indicators of Compromise.

Veeam utiliza o **file system indexing** para detectar e relatar a aparição **de ferramentas de hackers, exfiltração de dados, comandos, e credenciais de acesso**. A lista de ferramentas detectadas é continuamente atualizada pela Veeam.

Também busca arquivos com extensões conhecidas de malware, bilhetes de resgate (ransom notes) e flags similares de presença de malware.



# Melhores Práticas: Segurança & Resiliência

## Detecção de Malware. **Signature Detection.**

**Veeam Threat Hunter** combina a velocidade do YARA com as extensas capacidades de detecção das soluções antivírus.

**Integrado dentro do Veeam Backup & Replication**, Ele oferece detecção de malware mais rápida e ampla do que o uso de soluções antivírus independentes.

Malware Detection Settings

Encryption Detection	File Detection
Signature Detection	Incident API Notifications

Detection engine:

- Veeam Threat Hunter (recommended)  
Leverages machine learning and heuristic analysis to detect advanced threats including malware with polymorphic capabilities. Malware signatures are updated a few times per day to include newly developing threats.
  - Scan content of archive files (takes longer)
- Bring your own antivirus (slower)  
Uses your existing antivirus software preinstalled on mount hosts. Command line integration triggers antivirus software scan and waits for it to return an error code to determine the scan result.

Proactive investigation

- Perform signature-based scan when malware event appears  
Perform an automated signature-based scan of the backup whenever a potential malware activity has been detected.
  - Mark backup as clean if no threats are detected by signature-based scan

OK Cancel

The slide features a background with a color gradient from light green on the left to dark blue on the right. At the top and bottom, there are decorative elements consisting of multiple thin, overlapping, wavy lines in shades of light blue and green. The text is centered on the left side of the slide.

**Estamos quase  
terminando...**

# Dicas e truques

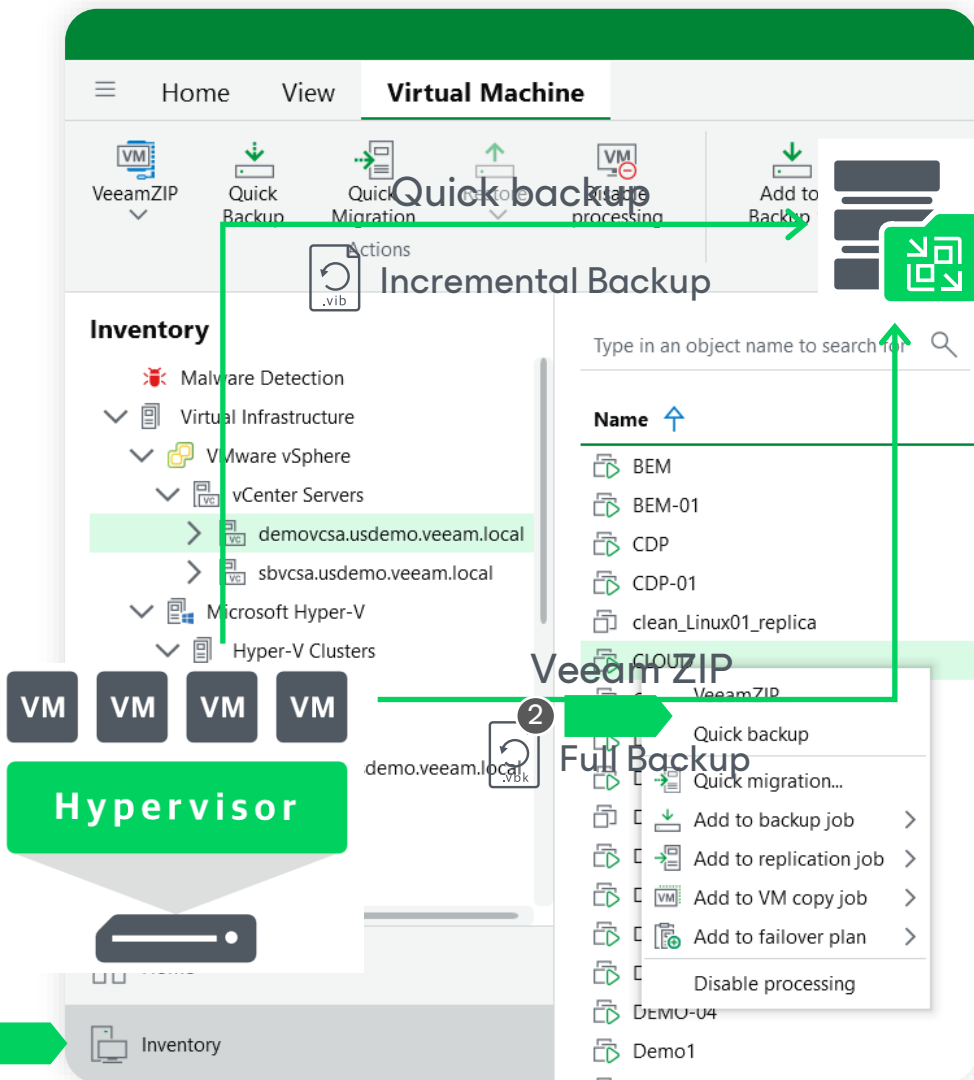
The background features a gradient from dark blue on the left to light green on the right. Overlaid on this are several sets of thin, wavy lines that create a sense of motion and depth, resembling a stylized wave or a digital signal.

# Quick Backup & VeeamZIP

**Quick Backup** oferece backup incremental sob demanda para VMs sem criar um novo trabalho. Ele adiciona um ponto extra de restauração às cadeias de backup existentes, adequado tanto para backups incrementais quanto reversos. No entanto, isso exige um backup completo previamente bem-sucedido para as VMs.

**VeeamZIP** funciona como um backup completo de VM, criando um arquivo de backup completo independente (.vbk). Você pode armazenar esse arquivo em vários locais, mas observe: os arquivos do VeeamZIP aparecem em "Backups → Disk (Exported)" em Home.

Quick Backup e VeeamZIP pode ser criado a partir do **Inventory**.



# Copiar e Mover Backups

Veeam Backup & Replication permite mover todos os backups de um Job de backup para outro repositório ou transferir workloads específicos e seus backups para outro Job.

## Exemplos de casos de uso:

Mover backups para repositórios diferentes

Mova backups para outro Job

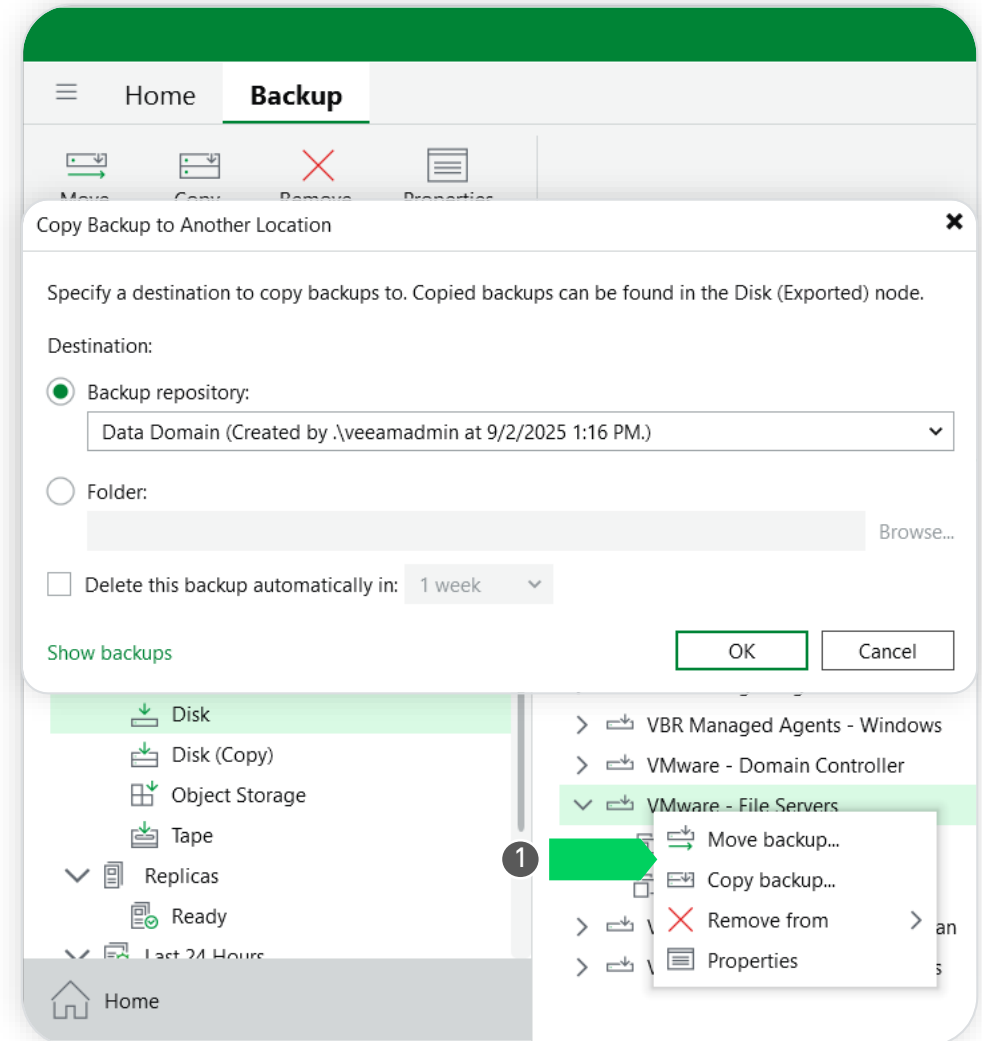
Copie backups para um repositório diferente

Migrar ReFS para XFS para Hardened

Migrar NTFS para ReFS

Re-balance de Scale-Out Repository

Evacuar extensão de Scale-Out Repository

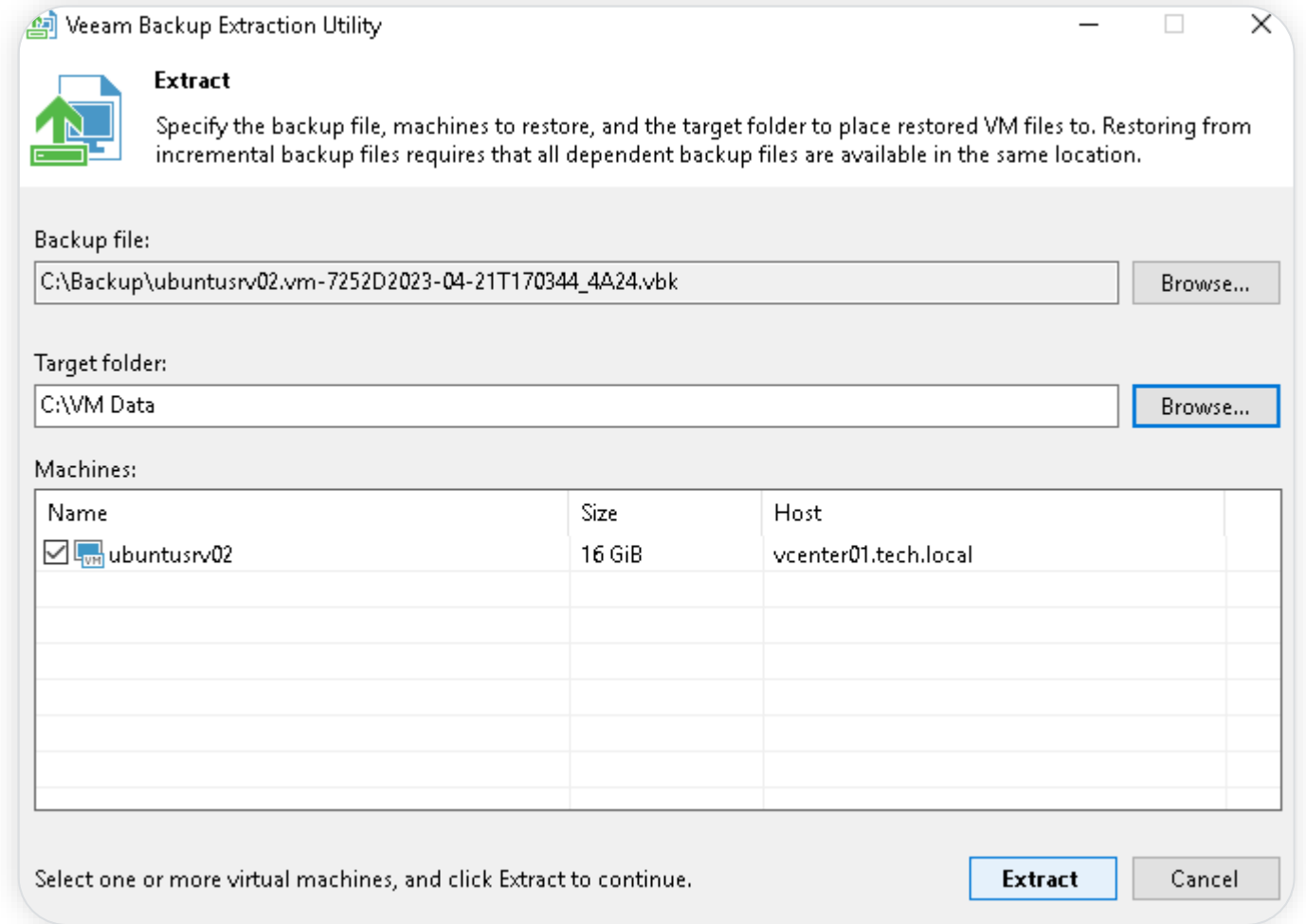


# Veeam Extract Utility


- Ferramenta independente para recuperação
- GUI ou CLI

## Caso de uso:

Recuperar máquinas mesmo que backups sejam removidos do Veeam Backup & Replication ou não está instalado por qualquer motivo.



# Recursos Adicionais

The background features a gradient from dark blue on the left to light green on the right. It is decorated with several sets of thin, white, wavy lines that create a sense of motion and depth, resembling sound waves or digital data patterns.

# Quer uma experiência prática?



## Test drive Veeam Software Appliance v13

Explore the brand new Veeam Software Appliance. Topics include discoverina new WebUI. diverse



## Test drive GenAI with Veeam Data Platform

This hands-on lab introduces Veeam AI assistant and walks you through how to leverage Veeam



## Test drive Veeam cyber Resilience with Palo Alto Networks



## Veeam Data Cloud for M365: Overview



## Veeam Data Cloud for Microsoft Azure: Overview



## Test drive Veeam Kasten for Kubernetes



## Test Drive Veeam Data Cloud for Microsoft 365

Learn and understand how to effectively leverage Veeam Data Cloud (VDC) SaaS platform to offload all data protection and recovery challenges when it comes to your Microsoft 365 (M365) workloads. This hands on lab showcases simplicity of VDC when it comes to protection & recovery needs to various M365 workloads such as Exchange online, OneDrive, SharePoint and Teams data. It guides you through how to create and manage simple backup policies, how to rapidly recover and how to leverage Role Based Access Control (RBAC) for granular delegation of responsibilities.

**Product:** Veeam Data Cloud  
**Use Cases:** Data Recovery  
**Technical Level:** Intermediate

REQUEST LAB



## Test drive Veeam Kasten & Red Hat Openshift Container Platform

This hands-on lab covers configuring storage classes and snapshot classes, deploying both containers and virtual machines on RedHat OpenShift Container Platform (OCP), and implementing comprehensive data protection with Veeam Kasten. Learn how to manage storage, deploy diverse workloads, and protect both containerized applications and Virtual Machines on a single platform, enhancing skills in modern, hybrid infrastructure management.

**Product:** Veeam Kasten  
**Use Cases:** Data Backup, Data Recovery  
**Technical Level:** Advanced

REQUEST LAB



## Test Drive Veeam One Reporting & Threat Center

Learn and understand how to effectively leverage Veeam ONE monitoring & Analytics to optimise your security posture. This hands on lab showcases Veeam Threat Center, Configuring Ransomware alerting, creating custom dashboards to assess security readiness to help combat cyber security requirements for your data estate as well as integrating with ServiceNow & SIEM solutions.

**Product:** Veeam ONE  
**Use Cases:** Reporting, Monitoring and Threat Center  
**Technical Level:** Beginner

REQUEST LAB



<https://go.veeam.com/hands-on-lab-experience#renewal>

# Veeam Certified Engineer (VMCE)

- Instrutor ou Sob-demanda (On-Demand)
- Disponível em mais de 100 países
- Teoria e Laboratórios práticos.
- Veeam University Pro: <http://vee.am/Gdg4Gwq>

# Recursos Adicionais

On-Demand Training — <http://vee.am/VeeamUniversity>

Calculators — <https://www.veeam.com/calculators>

Help Center — <https://vee.am/5mylXwq>

Best Practices — <https://bp.veeam.com/vbr/>

KB: Security — [https://vee.am/uF\\_UZwq](https://vee.am/uF_UZwq)

R&D Forums — <https://forums.veeam.com/>

Community Resource Hub — <https://community.veeam.com/>



# Compartilhe sua história de sucesso com a Veeam

- Destaque em nosso site e redes sociais
- Oportunidades de palestras na VeeamON
- Mostre sua expertise dentro da comunidade
- Receba os PARABÉNS pelas suas conquistas.

**Interessado?**  
**Entre em contato conosco em**

[advocacy@veeam.com](mailto:advocacy@veeam.com)

Matt Elsberry  
Lead Network Administrator, SGMC Health





**Thank you!**