



# Veeam Backup & Replication As Built Report

ACME Inc.

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Date: Thursday, April 25, 2024  
Version: 1.0

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## 1 VEEAM-VBR

The following section provides an overview of the implemented components of Veeam Backup & Replication.

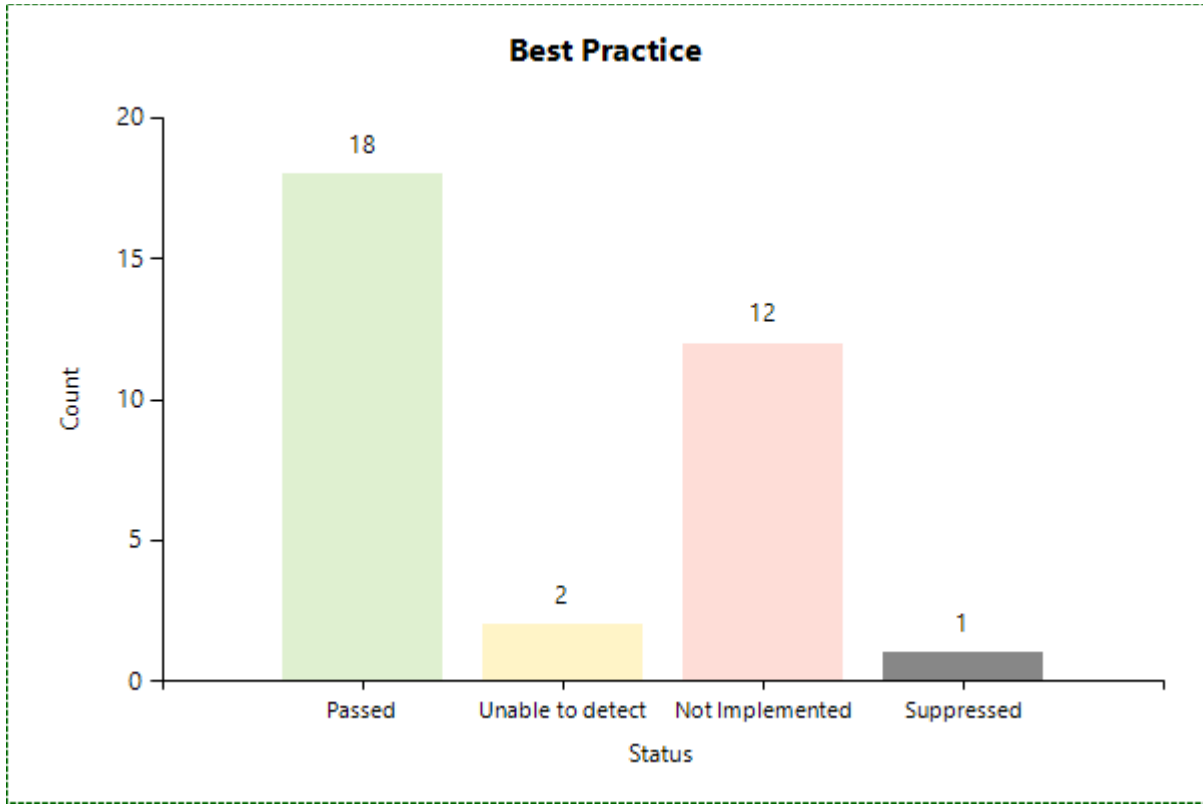
### 1.1 Backup Infrastructure

The following section details configuration information about the Backup Server: VEEAM-VBR

Backup Proxies	4
Managed Servers	45
Backup Repositories	8
SOBR Repositories	3
Object Repository	5
WAN Accelerator	4
Cloud Service Providers	2
SureBackup Application Group	2
SureBackup Virtual Lab	2
Locations	7
Instance Licenses (Total/Used)	5000/2
Socket Licenses (Total/Used)	0/0
Capacity Licenses (Total/Used)	0TB/0TB

Table 1 - Backup Infrastructure Inventory - VEEAM-VBR

## Security & Compliance



Best Practice	Status
All backups have at least one copy (the 3-2-1 backup rule)	Passed
Backup jobs to cloud repositories is encrypted	Passed
Backup Server is Up To Date	Passed
Backup services run under the LocalSystem account	Not Implemented
Computer is Workgroup member	Unable to detect
Configuration backup encryption is enabled	Not Implemented
Configuration backup is enabled	Not Implemented
Configuration backup is enabled and use encryption	Passed
Credentials and encryption passwords rotates annually	Not Implemented
Email notifications are enabled	Passed
Encryption network rules added for LAN traffic	Passed
Hardened repositories are not hosted in virtual machines	Passed
Hardened repositories have SSH disabled	Passed
Host to proxy traffic encryption should be enable for the Network transport mode	Passed
Immutable or offline media is used	Passed
Link-Local Multicast Name Resolution (LLMNR) is disabled	Not Implemented
Linux servers have password-based authentication disabled	Not Implemented
MFA is enabled	Not Implemented

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Best Practice	Status
Os Buckets In Compliance Mode	Passed
Outdated SSL And TLS are Disabled	Unable to detect
Password loss protection is enabled	Passed
Remote desktop protocol is disabled	Suppressed
Remote powershell is disabled (WinRM service)	Not Implemented
Remote registry service is disabled	Not Implemented
Reverse incremental backup mode is not used	Passed
SMB 1.0 is disabled	Passed
SMB v3 signing is enabled	Not Implemented
The configuration backup is not stored on the backup server	Passed
Unknown Linux servers are not trusted automatically	Passed
WDigest credentials caching is disabled	Passed
Web Proxy Auto-Discovery service (WinHttpAutoProxySvc) is disabled	Not Implemented
Windows firewall is enabled	Passed
Windows Script Host is disabled	Not Implemented

*Table 2 - Security & Compliance - VEEAM-VBR*

### 1.1.1 Backup Server

Server Name	VEEAM-VBR.pharmax.local
Is Domain Joined?	Yes
Version	12.1.1.56
Database Server	VEEAM-SQL.pharmax.local
Database Instance	--
Database Name	VeeamBackup
Connection Ports	Backup Server Port: 9392 Secure Connections Port: 9401 Cloud Server Port: 10003 Cloud Service Port: 6169
Install Path	C:\Program Files\Veeam\Backup and Replication\Backup\
Audit Logs Path	C:\ProgramData\Veeam\Backup\Audit
Compress Old Audit Logs	Yes
Fips Compliant Mode	Disabled
Linux host authentication	Add unknown host to the list manually
Logging Level	4
Log Directory	C:\ProgramData\Veeam\Backup

*Table 3 - Backup Server - VEEAM-VBR*

#### **Health Check:**

**Best Practice:** For the most secure deployment, Veeam recommend three options:

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1. Add the Veeam components to a management domain that resides in a separate Active Directory Forest and protect the administrative accounts with two-factor authentication mechanics.
2. Add the Veeam components to a separate workgroup and place the components on a separate network where applicable.
3. Add the Veeam components to the production domain but make sure the accounts with administrative privileges are protected with two-factor authentication.

**Reference:** [https://bp.veeam.com/vbr/Security/Security\\_domains.html](https://bp.veeam.com/vbr/Security/Security_domains.html)

### 1.1.1.1 Hardware & Software Inventory

Name	VEEAM-VBR
Windows Product Name	Windows Server 2019 Standard Evaluation
Windows Current Version	6.3
Windows Build Number	10.0.17763
Windows Install Type	Server
Active Directory Domain	pharmax.local
Windows Installation Date	12/03/2019 11:13:44
Time Zone	(UTC-04:00) Georgetown, La Paz, Manaus, San Juan
License Type	
Partial Product Key	
Manufacturer	VMware, Inc.
Model	VMware20,1
Serial Number	VMware-42 30 cb b7 cb bd 7a c2-8f 7f 82 e9 07 31 63 90
Bios Type	Uefi
BIOS Version	INTEL - 6040000
Processor Manufacturer	GenuineIntel
Processor Model	Intel(R) Core(TM) i7-6700 CPU @ 3.40GHz
Number of CPU Cores	2
Number of Logical Cores	2
Physical Memory (GB)	8 GB

*Table 4 - Backup Server Inventory - VEEAM-VBR*

#### Local Disks

Disk Number	Model	Serial Number	Partition Style	Disk Size
0	Virtual disk	6000c294f4726ed3 721b15c76abaffcc	2	100 GB
1	Virtual disk	6000c290f86cd3c4 72f24b32a0ddb0e4	2	100 GB
2	Virtual disk	6000c299dbe68476 926d68da7e017ac1	2	500 GB

Table 5 - Backup Server - Local Disks

Host Volumes

Drive Letter	File System Label	File System	Size	Free Space	Health Status
C		NTFS	99 GB	35 GB	0
E	VEEAM2	ReFS	500 GB	168 GB	0
F	VEEAM	NTFS	100 GB	96 GB	0

Table 6 - Backup Server - Volumes

Network Adapters

Adapter Name	Adapter Description	Mac Address	Link Speed
External	vmxnet3 Ethernet Adapter	00-50-56-B0-10-7A	10 Gbps
ISCSI-A	vmxnet3 Ethernet Adapter #2	00-50-56-B0-66-B1	10 Gbps
ISCSI-B	vmxnet3 Ethernet Adapter #3	00-50-56-B0-EC-C1	10 Gbps

Table 7 - Backup Server - Network Adapters

IP Address

Interface Name	Interface Description	IPv4 Addresses	Subnet Mask	IPv4 Gateway
External	vmxnet3 Ethernet Adapter	192.168.7.73	24	192.168.7.254
ISCSI-A	vmxnet3 Ethernet Adapter #2	192.168.6.13	24	
ISCSI-B	vmxnet3 Ethernet Adapter #3	192.168.12.13	24	

Table 8 - Backup Server - IP Address

1.1.1.2 Non-Default Registry Keys

Registry Key	Registry Value
AzureArchiveFreezingUnsupportedRegions	brazilsoutheast, germanynorth, westindia, norwaywest, qatarcentral, uaecentral
HighestDetectedVMCVersion	8.0.2.0
LogDirectory	C:\ProgramData\Veeam\Backup
SOBRArchivingScanPeriod	36

Table 9 - Non-Default Registry Keys - VEEAM-VBR



### 1.1.1.3 HealthCheck - Services Status

Display Name	Short Name	Status
Veeam AWS Service	VeeamAWSSvc	Running
Veeam Azure Service	VeeamAzureSvc	Running
Veeam CDP Coordinator Service	VeeamBackupCdpSvc	Running
Veeam Backup Server RESTful API Service	VeeamBackupRESTSvc	Running
Veeam Backup Service	VeeamBackupSvc	Running
Veeam Backup Update Service	VeeamBackupUpdateSvc	Running
Veeam Broker Service	VeeamBrokerSvc	Running
Veeam Guest Catalog Service	VeeamCatalogSvc	Running
Veeam CDP Proxy Service	VeeamCdpProxySvc	Running
Veeam Cloud Connect Service	VeeamCloudSvc	Running
Veeam Data Analyzer Service	VeeamDataAnalyzerSvc	Running
Veeam Installer Service	VeeamDeploySvc	Running
Veeam Distribution Service	VeeamDistributionSvc	Running
Veeam Explorers Recovery Service	VeeamExplorersRecoverySvc	Running
Veeam Backup VSS Integration Service	VeeamFilesysVssSvc	Running
Veeam Cloud Gateway Service	VeeamGateSvc	Running
Veeam GCP Service	VeeamGCPSvc	Running
Veeam Kubernetes Service	VeeamKastenSvc	Running
Veeam Management Agent Service	VeeamManagementAgentSvc	Running
Veeam Mount Service	VeeamMountSvc	Running
Veeam vPower NFS Service	VeeamNFSSvc	Running
Veeam ONE Agent	VeeamOneAgentSvc	Running
Veeam Data Mover Service	VeeamTransportSvc	Running
Veeam VSS Hardware Provider Service	VeeamVssProviderSvc	Running
Veeam WAN Accelerator Service	VeeamWANSvc	Running

Table 10 - HealthCheck - Services Status - VEEAM-VBR

### 1.1.1.4 Missing Windows Updates

The following table provides a summary of the backup server pending/missing windows updates.

KB Article	Name
KB5037034	2024-04 Cumulative Update for .NET Framework 3.5, 4.7.2 and 4.8 for Windows Server 2019 for x64 (KB5037034)
KB5036896	2024-04 Cumulative Update for Windows Server 2019 for x64-based Systems (KB5036896)

Table 11 - Missing Windows Updates - VEEAM-VBR

**Health Check:**

**Security Best Practices:** Patch operating systems, software, and firmware on Veeam components. Most hacks succeed because there is already vulnerable software in use which is not up-to-date with current patch levels. So make sure all software and hardware where Veeam components are running are up-to-date. One of the most possible causes of a credential theft are missing guest OS updates and use of outdated authentication protocols.

**1.1.2 Enterprise Manager Information**

The following table details information about Veeam Enterprise Manager configuration status

Server Name	VEEAM-EM.pharmax.local
Server URL	https://VEEAM-EM.pharmax.local:9443
Skip License Push	No
Is Connected	Yes

*Table 12 - Enterprise Manager - VEEAM-VBR*

**1.1.3 License Information**

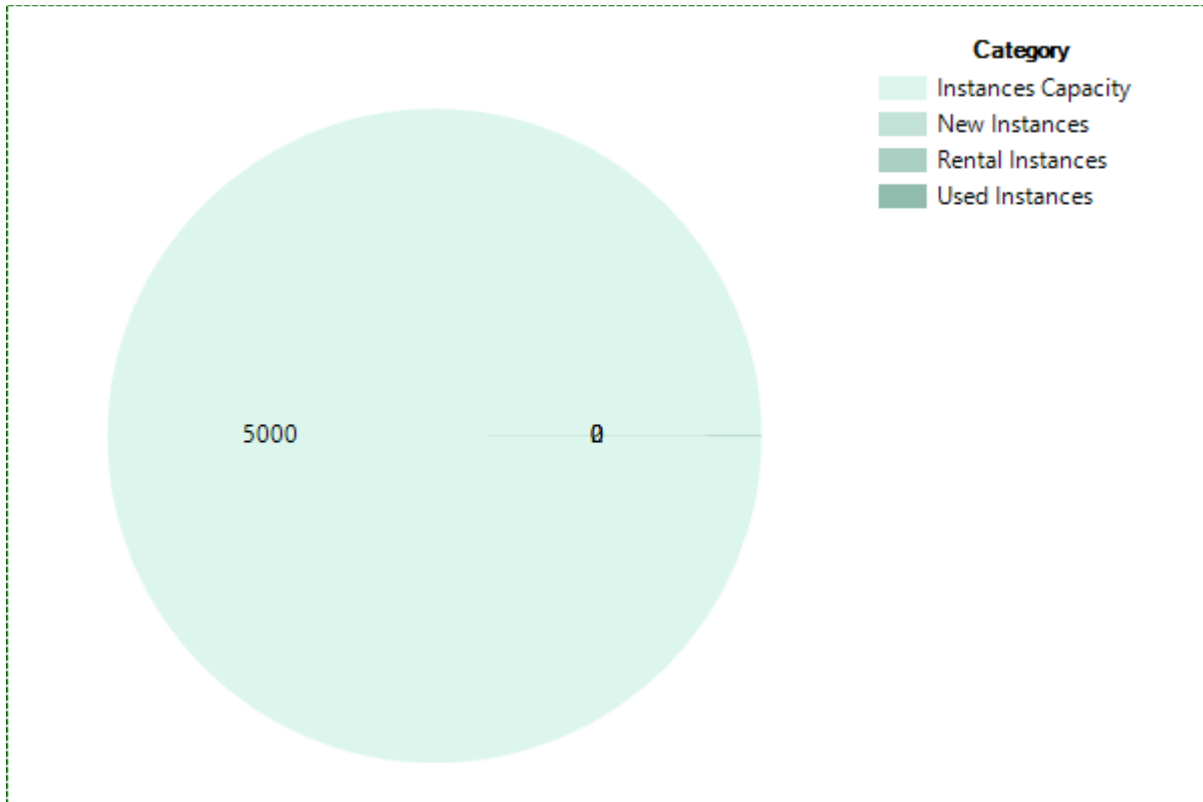
The following section provides a summary about the installed licenses

**1.1.3.1 Installed License Information**

Licensed To	Veeam Software - Activities Tracking
Edition	EnterprisePlus
Type	Evaluation
Status	Valid
Expiration Date	Saturday, May 11, 2024
Support Id	N/A
Support Expiration Date	--
Auto Update Enabled	No
Free Agent Instance	Yes
Cloud Connect	Enabled

*Table 13 - Licenses - VEEAM-VBR*

### Instance License Usage



Instances Capacity	Used Instances	New Instances	Rental Instances
5000	2	0	0

Table 14 - Instance License Usage - VEEAM-VBR

### Per Instance Type License Usage

Type	Count	Multiplier	Used Instances
CloudConnectReplicatio nVM	2	1	2

Table 15 - Per Instance Type - VEEAM-VBR

## 1.1.4 General Options

The following section details Veeam Backup & Replication general setting. General settings are applied to all jobs, backup infrastructure components and other objects managed by the backup server.

### 1.1.4.1 Configuration Backup

Name	Backup Configuration Job
Run Job Automatically	Yes

Schedule Type	Daily
Schedule Options	Type: Everyday Period: 10:00:00 Day Of Week: Sunday Monday Tuesday Wednesday Thursday Friday Saturday
Restore Points To Keep	10
Encryption Enabled	Yes
Encryption Key	Password Global
Additional Address	veeam_admin@pharmax.local
Email Subject	[%JobResult%] %JobName% (%Time%)
Notify On	Notify On Success: No Notify On Warning: Yes Notify On Error: Yes Notify On Last Retry Only: Yes
NextRun	04/26/2024 10:00:00
Target	Linux - Hardened Repository
Enabled	Yes
LastResult	Failed

Table 16 - Configuration Backup Settings - VEEAM-VBR

#### 1.1.4.2 Email Notification

Email Recipient	veeam_admin@pharmax.local,jcolonf@zenprsolutions.com
Email Sender	veeam_admin@pharmax.local
SMTP Server	Azure
Email Subject	[%JobResult%] %JobName% (%VmCount% machines) %Issues%
SSL Enabled	Yes
Auth Enabled	Yes
Credentials	rebelinux@gmail.com
Daily Reports Time	10:00 PM
Enabled	Yes
Notify On	Notify On Success: Yes Notify On Warning: Yes Notify On Failure: Yes Notify On Last Retry Only: Yes

Table 17 - Email Notification Settings - VEEAM-VBR

#### 1.1.4.3 Event Forwarding

SNMP Servers	--
Syslog Servers	--

Table 18 - Event Forwarding - VEEAM-VBR

**Health Check:**

**Security Best Practice:** It is a recommends best practice to configure Event Forwarding to an external SIEM or Log Collector to increase the organization security posture.

1.1.4.4 Global Notifications

Backup Storage

Warn me when free disk space is below	Disabled
---------------------------------------	----------

Table 19 - Backup Storage Notification - VEEAM-VBR

Production Datastore

Warn me when free disk space is below	11%
Skip VM processig when free disk space is below	5%

Table 20 - Production Datastore Notification - VEEAM-VBR

Support Expiration

Enable notification about support contract expiration	Yes
---	-----

Table 21 - Support Expiration Notification - VEEAM-VBR

Update Notification

Check for product and hypervisor updates periodically	Yes
---	-----

Table 22 - Update Notification Notification - VEEAM-VBR

1.1.4.5 History Retention

Keep All Sessions	No
Retention Limit	13 weeks

Table 23 - History Settings - VEEAM-VBR

1.1.4.6 Storage Latency Control

Latency Limit	Throttling IO Limit	Enabled
20/ms	30/ms	Yes

Table 24 - Storage Latency Control - VEEAM-VBR

Per Datastore Latency Control Options

Datastore Name	Latency Limit	Throttling IO Limit
	20/ms	30/ms
HDD-VM-MED-PERF-01	10/ms	15/ms

Table 25 - Per Datastore Latency Control Options - VEEAM-VBR

### 1.1.4.7 Backup Server TLS Certificate

Friendly Name	Veeam Backup Server Certificate
Subject Name	CN=Veeam Backup Server Certificate
Issuer Name	CN=Veeam Backup Server Certificate
Expiration Date	6/27/2032
Issued Date	6/27/2022
Thumbprint	958974015EB6E49D6B381229D2521966CB25B9BE
Serial Number	4369014BA8DF88B344C2B090F1D19974

Table 26 - TLS Certificate - VEEAM-VBR

### 1.1.4.8 Network Traffic Rules Options

The following section details network traffic rules options configured on Veeam Backup & Replication.

Is Multiple Upload Streams Enabled?	Yes
Upload Streams Per Job	5
Is IPv6 Enabled?	No

Table 27 - Network Traffic Rule Options - VEEAM-VBR

#### 1.1.4.8.1 Network Traffic Rule

The following section details network traffic rules settings configured on Veeam Backup & Replication.

Name	Inter-Site-to-DR
Source IP Start	192.168.7.1
Source IP End	192.168.7.255
Target IP Start	10.10.33.1
Target IP End	10.10.33.255
Encryption Enabled	No
Throttling	Throttling Enabled: Yes Throttling Unit: MbytePerSec

Throttling Value: 10
Throttling Windows: Yes

Table 28 - Network Traffic Rules - Inter-Site-to-DR

Throttling Windows Time Period

Enabled \ Disabled

H	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11
Sun																								
Mon																								
Tue																								
Wed																								
Thu																								
Fri																								
Sat																								

Table 29 - Throttling Windows - Inter-Site-to-DR

Name	Internet
Source IP Start	Any
Source IP End	--
Target IP Start	Internet
Target IP End	--
Encryption Enabled	Yes
Throttling	Throttling Enabled: No Throttling Unit: MbitPerSec Throttling Value: 1 Throttling Windows: No

Table 30 - Network Traffic Rules - Internet

Preferred Networks

IP Address	Subnet Mask	CIDR Notation
192.168.7.0	255.255.255.0	192.168.7.0/24

Table 31 - Preferred Networks - VEEAM-VBR

### 1.1.4.9 Malware Detection

Inline entropy analysis	Yes
Sensitivity	Normal
File system activity analysis	Yes
Update malware definition automatically	No
File Maks: Suspicious Extensions	*.ccsfs,*.djdjej

File Maks: Non Suspicious Extensions	*.dot,*.cas
Incident API: Quick Backup On External Event	Yes
Send SNMP notification for detected malware	Yes
Send email notification for detected malware	Yes
Additional email address	fvfvvf@gmail.com, rebelinux@mail.com
Use custom notification settings	No
Notify on success	No
Notify on warning	Yes
Notify on error	Yes

Table 32 - Malware Detection - VEEAM-VBR

### 1.1.4.10 Global Exclusions

#### Malware Detection Exclusions

Name	Platform	Note
vCLS-d83bd126-66ec-4cf4-90d8-14e1312607c5	VMWare	Prueba de Notas

Table 33 - Malware Detection Exclusions - VEEAM-VBR

#### VM Exclusions

Name	Platform	Note
LAB-FOC-01V	VMWare	Prueba de Notas

Table 34 - VM Exclusions - VEEAM-VBR

### 1.1.5 Roles and Users

The following section provides information about roles assigned to users or groups.

Name	Type	Role
BUILTIN\Administrators	Group	BackupAdmin
PHARMAX\veeam_admin	User	BackupAdmin
PHARMAX\vraser	User	BackupOperator

Table 35 - Roles and Users - VEEAM-VBR

#### **Health Check:**

#### **Security Best Practice:**



Veeam recommends to give every Veeam admin his own admin account or add their admin account to the appropriate security group within Veeam and to remove the default 'Veeam Backup Administrator' role from local Administrators group, for traceability and easy adding and removal

**Reference:**

[https://bp.veeam.com/security/Design-and-implementation/Roles\\_And\\_Users.html#roles-and-users](https://bp.veeam.com/security/Design-and-implementation/Roles_And_Users.html#roles-and-users)

**Roles and Users Settings**

Is MFA globally enabled?	* No
Is auto logoff on inactivity enabled?	** No
Auto logoff on inactivity after	10 minutes
Is Four-eye Authorization enabled?	*** No
Auto reject pending approvals after	7 days

Table 36 - Roles and Users Settings - VEEAM-VBR

**Health Check:**

**Security Best Practice:**

\* To ensure comprehensive security, it's crucial to implement MFA across all user accounts. By using a combination of different authentication factors like passwords, biometrics, and one-time passcodes, you create layers of security that make it harder for attackers to gain unauthorized access.

\*\* Limiting the length of inactive sessions can help protect sensitive information and prevent unauthorized account access.

\*\*\* Veeam recommends configuring Four-eye Authorization to be able to protect against accidental deletion of backup and repositories by requiring an approval from another Backup Administrator.

**1.1.6 Security Credentials**

The following table provide information about the credentials managed by Veeam Backup & Replication.

Name	Change Time	Description
acad\Administrator	1/10/2024	acad\Administrator
admin	2/24/2022	ONTAP-HQ-SAN
admin	1/16/2022	Isilon Account
admin	12/14/2019	admin netapp
administrator	12/2/2022	vCD administrator
administrator@pharmax.local	12/16/2019	administrator@pharmax.local
administrator@vsphere.local	2/27/2021	administrator@vsphere.local

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Name	Change Time	Description
backup_admin1	5/29/2020	veeam_admin netapp nmdp
backup_admin1	2/24/2022	backup_admin1
ddksksk	12/29/2023	ddksksk
god	12/28/2021	god
god	12/28/2021	god
godadmin	3/25/2024	godadmin
pharmax\veeam_gmsa	12/29/2023	pharmax\veeam_gmsa
rebelinux@gmail.com	12/28/2021	rebelinux@gmail.com
root	7/20/2022	ESXi root account
root	12/14/2019	Helper appliance credentials
root	12/18/2019	root
root	12/14/2019	Azure helper appliance credentials
root	12/23/2023	root
root	12/14/2019	Provider-side network extension appliance credentials
root	12/14/2019	Tenant-side network extension appliance credentials
SYS	12/18/2019	SYS
veeam	7/6/2021	veeam_dxi
VEEAM	12/18/2019	VEEAM
VEEAM_ADMIN	12/18/2019	VEEAM_ADMIN
veeam_admin	12/15/2019	veeam_admin
veeam_admin@pharmax.local	12/14/2019	veeam_admin@pharmax.local
VEEAM-VBR	2/6/2022	VEAM-VBR
VEEAM-VBR	6/30/2021	HP StoreOne VSA
ZenPRSolutions-130858420/ZenPRSolutions-130858420	6/9/2022	ZenPRSolutions-130858420/ZenPRSolutions-130858420

*Table 37 - Security Credentials - VEEAM-VBR*

### 1.1.6.1 Service Provider Credentials

The following table provide information about the service provider credentials managed by Veeam Backup & Replication.

Name	Description
godadmin	ACME Inc. Provider
jcolonfzenpr	jcolonfzenpr
ultra_super_god_admin	Super Duper Backup Provider Credential
VCC-ZenPRSolutions	VCC-ZenPRSolutions

*Table 38 - Service Provider Credentials - VEEAM-VBR*

### 1.1.7 Key Management Servers

The following table provide information about the kms configured in Veeam Backup & Replication.

Name	veeam-kms-01v.pharmax.local
CA Certificate	<p>[Subject] CN=pharmax-SERVER-DC-01V-CA, DC=pharmax, DC=local</p> <p>[Issuer] CN=pharmax-SERVER-DC-01V-CA, DC=pharmax, DC=local</p> <p>[Serial Number] 5D2E25D9AFFDE4904A05D70BEB7ACBD2</p> <p>[Not Before] 1/25/2020 7:35:16 PM</p> <p>[Not After] 1/25/2025 7:45:15 PM</p> <p>[Thumbprint] 0F6D4D3B8C71290E76B6B6C0661275F6F37B9CE0</p>
Client Certificate	<p>[Subject] CN=veeam-vbr, OU=IT, O=PHARMAX, L=Cayey, S=PR, C=US</p> <p>[Issuer] CN=HyTrust KeyControl Certificate Authority, O=HyTrust Inc., C=US</p> <p>[Serial Number] 0D9AA6C5</p> <p>[Not Before] 1/7/2024 10:04:27 AM</p> <p>[Not After] 1/7/2025 10:04:27 AM</p> <p>[Thumbprint] 3E26DBF1F93C2C2628C023F5C52530BFAFF0D9BE</p>
Port	TCP/5696
Description	--

Table 39 - Key Management Server - veeam-kms-01v.pharmax.local

### 1.1.8 Geographical Locations

The following section provide a summary about geographical locations.

Name	id
Brazil	ceadd22f-3872-4152-9dca-9b27af11b144
Cayey	1f13b88a-d8c0-4048-a79c-0f4575dc904a
Florida	39a4cbc6-c715-484e-b976-00560946aea9
Gurabo	39928575-1581-4f81-bd8f-348b1391bfc0
Mexico	e9ccc857-5620-48e7-b229-5bef94293cc3
San Juan	a7643c0e-ed73-4803-85f1-eef451169a54
Texas	21037406-af0a-4f39-9393-13c8f3d0c8be

Table 40 - Location - VEEAM-VBR

### 1.1.9 Virtualization Servers and Hosts

Name	Description	Status
AWSS3	Amazon S3	Available
veeam-lnx-px.pharmax.local	Linux host	Available
192.168.7.65	Linux host	Unavailable
VEEAM-VTL.pharmax.local	Linux host	Available
AZUREBlob	Microsoft Azure Blob Storage	Available
pharmax-cluster.pharmax.local	Microsoft Hyper-V cluster	Available
VEEAM-HV-01	Microsoft Hyper-V server	Unavailable
VEEAM-HV-03.pharmax.local	Microsoft Hyper-V server	Available
VEEAM-HV-02	Microsoft Hyper-V server	Unavailable
VEEAM-HVPRX-01V.pharmax.local	Microsoft Windows server	Available
VEEAM-HV-02.pharmax.local	Microsoft Windows server	Unavailable
VEEAM-HV-01.pharmax.local	Microsoft Windows server	Unavailable
VEEAM-TPS-01V.pharmax.local	Microsoft Windows server	Unavailable
VEEAM-REPO-01V.pharmax.local	Microsoft Windows server	Available
VEEAM-VBR.pharmax.local	Microsoft Windows server	Available
VEEAM-VBR-02V.pharmax.local	Microsoft Windows server	Available
VEEAM-WAN-01V.pharmax.local	Microsoft Windows server	Available
VEEAM-HV-03.pharmax.local	Microsoft Windows server	Unavailable
server-dc-01v	Microsoft Windows server	Available
192.168.5.18:/oracle	NFS file share	Available
ONTAP-HQ-SAN\NAS-VEEAM:/DATA	NFS filer	Available
ONTAP-HQ-SAN\NAS-VEEAM:/oracle	NFS filer	Available
OBJStorage	S3 compatible storage	Available
\\server-dc-01\UEMConfig	SMB file share	Available
\\isilon_nas.pharmax.local\DATA	SMB file share	Available

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Name	Description	Status
ONTAP-HQ-SAN\NAS-VEEAM:\c\$	SMB filer	Available
ONTAP-HQ-SAN\NAS-VEEAM:\data	SMB filer	Available
PHARMAX-ISILON\System:\DATA	SMB filer	Available
ONTAP-HQ-SAN\NAS-VEEAM:\ipc\$	SMB filer	Available
PHARMAX-HQ	Storage	Available
VEEAM-NTAP-CLUSTER	Storage	Available
PHARMAX-DR	Storage	Available
ONTAP-DR-SAN	Storage	Available
ONTAP-HQ-SAN	Storage	Available
PHARMAX-ISILON	Storage	Available
vcd-srv-01v.pharmax.local	VMware Cloud Director server	Available
192.168.7.124	VMware ESXi server	Available
esxsvr-00f.pharmax.local	VMware ESXi server	Available
esxsvr-00f.pharmax.local	VMware ESXi server	Available
disaster-01a.pharmax.local	VMware ESXi server	Available
comp-01a.pharmax.local	VMware ESXi server	Available
comp-01a.pharmax.local	VMware ESXi server	Available
192.168.7.124	VMware ESXi server	Available
192.168.5.2	VMware vCenter server	Available
vcenter-01v.pharmax.local	VMware vCenter server	Available

Table 41 - Managed Servers - VEEAM-VBR

### 1.1.10 Backup Proxies

The following section provides a summary of the Veeam Backup Proxies

#### 1.1.10.1 VMware Backup Proxies

Name	veeam-lnx-px.pharmax.local
Host Name	veeam-lnx-px.pharmax.local
Type	Vi
Disabled	No
Max Tasks Count	2
Use Ssl	No
Failover To Network	Yes
Transport Mode	Auto
Chassis Type	ViVirtual
OS Type	Linux
Services Credential	--
Status	Available

Table 42 - Backup Proxy - veeam-lnx-px.pharmax.local

Name	VMware Backup Proxy
Host Name	VEEAM-VBR.pharmax.local
Type	Vi
Disabled	No
Max Tasks Count	2
Use Ssl	No
Failover To Network	Yes
Transport Mode	Auto
Chassis Type	ViVirtual
OS Type	Local
Services Credential	--
Status	Available

Table 43 - Backup Proxy - VMware Backup Proxy

Name	VEEAM-VBR-02V.pharmax.local
Host Name	VEEAM-VBR-02V.pharmax.local
Type	Vi
Disabled	No
Max Tasks Count	2
Use Ssl	No
Failover To Network	Yes
Transport Mode	Auto
Chassis Type	ViVirtual
OS Type	Windows
Services Credential	administrator@pharmax.local
Status	Available

Table 44 - Backup Proxy - VEEAM-VBR-02V.pharmax.local

### 1.1.10.1.1 Hardware & Software Inventory

#### 1.1.10.1.1.1 VEEAM-VBR-02V

Name	VEEAM-VBR-02V
Windows Product Name	Windows Server 2022 Datacenter
Windows Current Version	6.3
Windows Build Number	10.0.20344
Windows Install Type	Server
Active Directory Domain	pharmax.local
Windows Installation Date	12/20/2021 10:22:51

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Time Zone	(UTC-04:00) Georgetown, La Paz, Manaus, San Juan
License Type	
Partial Product Key	
Manufacturer	VMware, Inc.
Model	VMware7,1
Serial Number	VMware-42 30 a1 96 fa e8 cc 89-a4 2b ac 48 a6 88 1c 95
Bios Type	Uefi
BIOS Version	INTEL - 6040000
Processor Manufacturer	GenuineIntel
Processor Model	Intel(R) Core(TM) i7-6700 CPU @ 3.40GHz
Number of CPU Cores	2
Number of Logical Cores	2
Physical Memory (GB)	4 GB

Table 45 - Backup Proxy Inventory - VEEAM-VBR-02V

Local Disks

Disk Number	Model	Serial Number	Partition Style	Disk Size
0	Virtual disk	6000c298c298c0d0 2feed362b8c93888	2	40 GB
1	Virtual disk	6000c298728ba2eb 597c2f4188f201d7	2	100 GB
2	Virtual disk	6000c295bcc8c343 52b1ae03aadccff2	2	100 GB

Table 46 - Local Disks - VEEAM-VBR-02V

Host Volumes

Drive Letter	File System Label	File System	Size	Free Space	Health Status
C		NTFS	39 GB	23 GB	0
E	Backup Drive	ReFS	100 GB	6 GB	0
F	Backup Drive	ReFS	100 GB	91 GB	0

Table 47 - Volumes - VEEAM-VBR-02V

Network Adapters

Adapter Name	Adapter Description	Mac Address	Link Speed
Ethernet0 2	vmxnet3 Ethernet Adapter	00-50-56-B0-18-9E	10 Gbps
ISCAI-A	vmxnet3 Ethernet Adapter #3	00-50-56-B0-3A-8C	10 Gbps
ISCAI-B	vmxnet3 Ethernet Adapter #2	00-50-56-B0-67-D7	10 Gbps

Table 48 - Network Adapters - VEEAM-VBR-02V

### IP Address

Interface Name	Interface Description	IPv4 Addresses	Subnet Mask	IPv4 Gateway
Ethernet0 2	vmxnet3 Ethernet Adapter	192.168.7.189	24	192.168.7.254
ISCAI-A	vmxnet3 Ethernet Adapter #3	192.168.6.16	24	
ISCAI-B	vmxnet3 Ethernet Adapter #2	192.168.12.15	24	

Table 49 - IP Address - VEEAM-VBR-02V

### HealthCheck - VEEAM-VBR-02V Services Status

Display Name	Short Name	Status
Veeam Backup VSS Integration Service	VeeamFilesysVssSvc	Running
Veeam Cloud Gateway Service	VeeamGateSvc	Running
Veeam Data Mover Service	VeeamTransportSvc	Running
Veeam Distribution Service	VeeamDistributionSvc	Running
Veeam Explorers Recovery Service	VeeamExplorersRecoverySvc	Running
Veeam Installer Service	VeeamDeploySvc	Running
Veeam Mount Service	VeeamMountSvc	Running
Veeam vPower NFS Service	VeeamNFSSvc	Running
Veeam VSS Hardware Provider Service	VeeamVssProviderSvc	Running
Veeam WAN Accelerator Service	VeeamWANSvc	Running

Table 50 - HealthCheck - Services Status - VEEAM-VBR-02V



### 1.1.10.1.2 VMware Backup Proxy Diagram.



### VMware Backup Proxy Diagram

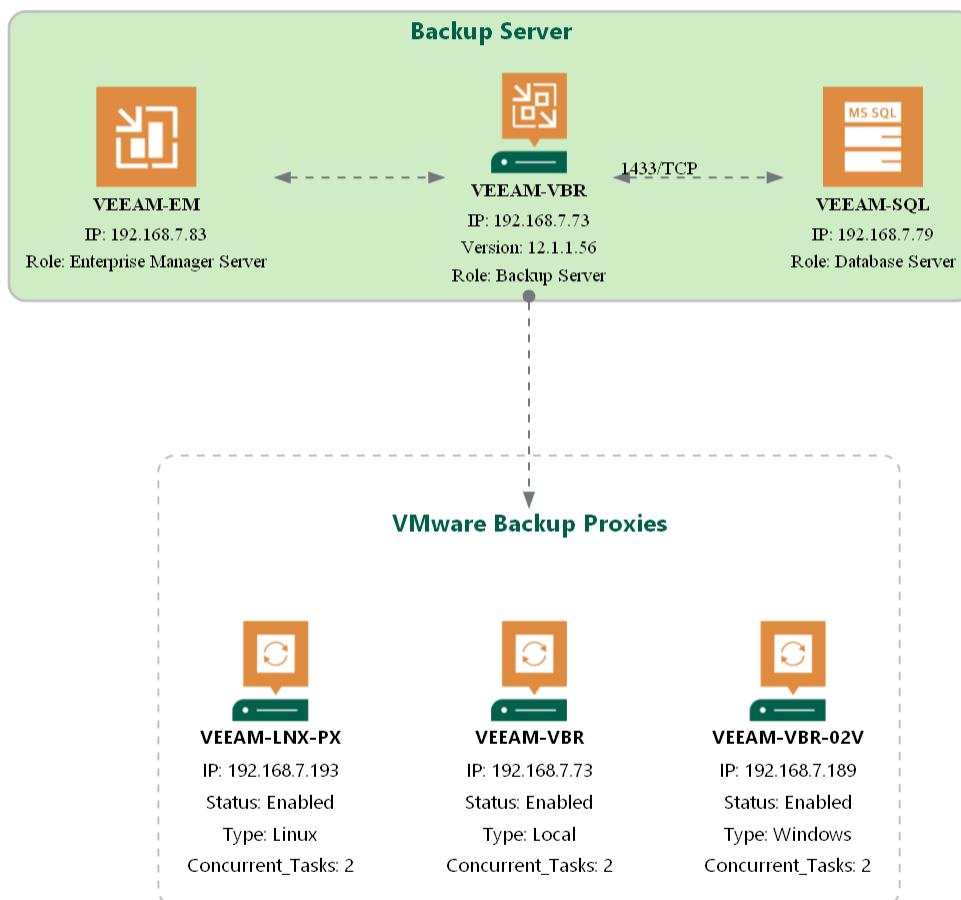


Image preview: Opens the image in a new tab to view it at full resolution.

### 1.1.10.2 Hyper-V Backup Proxies

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Name	VEEAM-HVPRX-01V.pharmax.local
Host Name	VEEAM-HVPRX-01V.pharmax.local
Type	HvOffhost
Disabled	No
Max Tasks Count	2
AutoDetect Volumes	Yes
OS Type	Windows
Services Credential	administrator@pharmax.local
Status	Available

Table 51 - Backup Proxy - VEEAM-HVPRX-01V

### 1.1.10.2.1 Hardware & Software Inventory

#### 1.1.10.2.1.1 VEEAM-HVPRX-01V

Name	VEEAM-HVPRX-01V
Windows Product Name	Windows Server 2022 Datacenter Evaluation
Windows Current Version	6.3
Windows Build Number	10.0.20348
Windows Install Type	Server
Active Directory Domain	pharmax.local
Windows Installation Date	07/18/2022 16:23:09
Time Zone	(UTC-04:00) Georgetown, La Paz, Manaus, San Juan
License Type	
Partial Product Key	
Manufacturer	VMware, Inc.
Model	VMware7,1
Serial Number	VMware-42 30 5a 5e c8 7a a3 b7-c2 b6 2e a0 bd 1f 22 fe
Bios Type	Uefi
BIOS Version	INTEL - 6040000
Processor Manufacturer	GenuineIntel
Processor Model	Intel(R) Core(TM) i7-6700 CPU @ 3.40GHz
Number of CPU Cores	2
Number of Logical Cores	2
Physical Memory (GB)	4 GB

Table 52 - Backup Proxy Inventory - VEEAM-HVPRX-01V

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Local Disks

Disk Number	Model	Serial Number	Partition Style	Disk Size
0	Virtual disk	6000c298c782b6e3 1d88e2825e5b4f1d	2	100 GB

Table 53 - Local Disks - VEEAM-HVPRX-01V

Host Volumes

Drive Letter	File System Label	File System	Size	Free Space	Health Status
C		NTFS	99 GB	81 GB	0

Table 54 - Volumes - VEEAM-HVPRX-01V

Network Adapters

Adapter Name	Adapter Description	Mac Address	Link Speed
Ethernet0	vmxnet3 Ethernet Adapter	00-50-56-B0-34-96	10 Gbps
vEthernet (vmxnet3 Ethernet Adapter - Virtual Switch)	Hyper-V Virtual Ethernet Adapter	00-50-56-B0-34-96	10 Gbps

Table 55 - Network Adapters - VEEAM-HVPRX-01V

IP Address

Interface Name	Interface Description	IPv4 Addresses	Subnet Mask	IPv4 Gateway
vEthernet (vmxnet3 Ethernet Adapter - Virtual Switch)	Hyper-V Virtual Ethernet Adapter	192.168.7.215	24	192.168.7.254

Table 56 - IP Address - VEEAM-HVPRX-01V

HealthCheck - VEEAM-HVPRX-01V Services Status

Display Name	Short Name	Status
Veeam Cloud Gateway Service	VeeamGateSvc	Running
Veeam Data Mover Service	VeeamTransportSvc	Running
Veeam Hyper-V Integration Service	VeeamHvIntegrationSvc	Running
Veeam Installer Service	VeeamDeploySvc	Running

Table 57 - HealthCheck - Services Status - VEEAM-HVPRX-01V

### 1.1.10.2.2 HyperV Backup Proxy Diagram.



## HyperV Backup Proxy Diagram

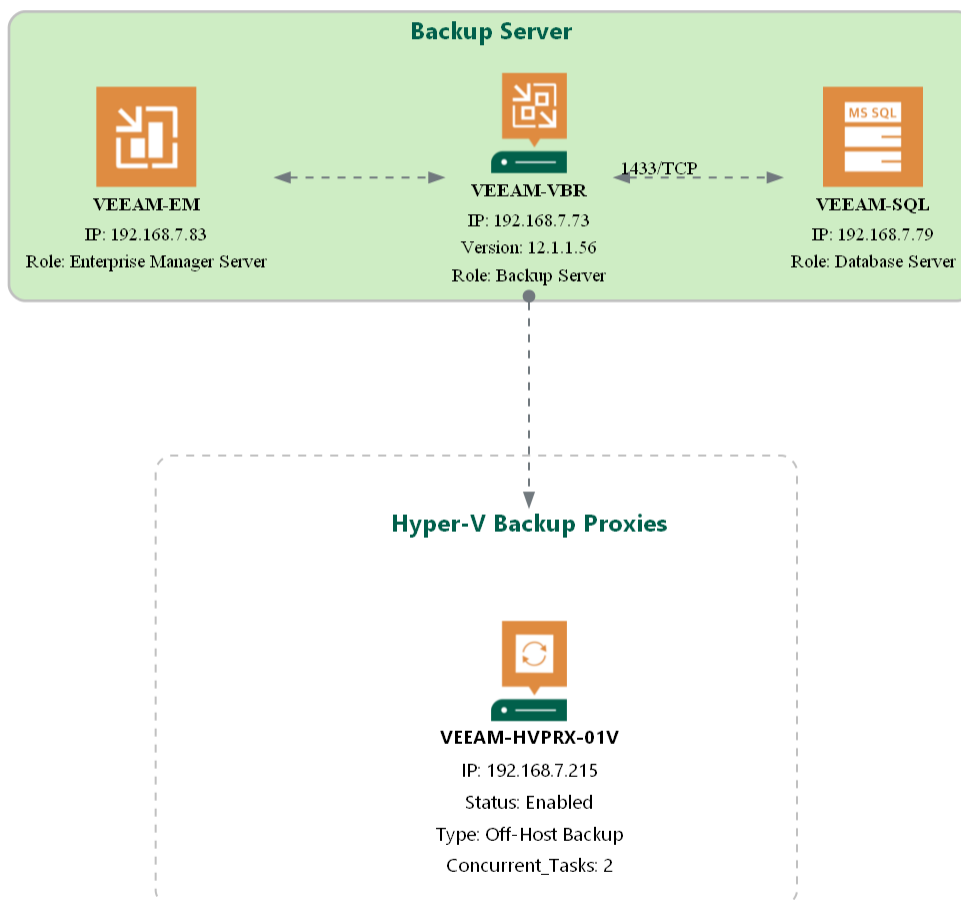


Image preview: Opens the image in a new tab to view it at full resolution.

### 1.1.11 WAN Accelerators

The following section provides information about WAN Accelerator. WAN accelerators are responsible for global data caching and data deduplication.

Name	VEEAM-REPO-01V.pharmax.local
Host Name	VEEAM-REPO-01V.pharmax.local
Is Public	Yes
Management Port	6164\TCP
Service IP Address	
Traffic Port	6165\TCP
Max Tasks Count	1
Download Stream Count	5
Enable Performance Mode	No
Configured Cache	Unknown
Cache Path	E:\VeeamWAN
Max Cache Size	10 GB

Table 58 - Wan Accelerator - VEEAM-REPO-01V.pharmax.local

Name	VEEAM-VBR
Host Name	VEEAM-VBR.pharmax.local
Is Public	Yes
Management Port	6164\TCP
Service IP Address	
Traffic Port	6165\TCP
Max Tasks Count	1
Download Stream Count	5
Enable Performance Mode	Yes
Configured Cache	No
Cache Path	E:\VeeamWAN
Max Cache Size	10 GB

Table 59 - Wan Accelerator - VEEAM-VBR.pharmax.local

Name	VEEAM-VBR-02V.pharmax.local
Host Name	VEEAM-VBR-02V.pharmax.local
Is Public	Yes
Management Port	6164\TCP
Service IP Address	
Traffic Port	6165\TCP
Max Tasks Count	1
Download Stream Count	5
Enable Performance Mode	No
Configured Cache	Unknown

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Cache Path	E:\VeeamWAN
Max Cache Size	100 GB

Table 60 - Wan Accelerator - VEEAM-VBR-02V.pharmax.local

Name	VEEAM-WAN-01V.pharmax.local
Host Name	VEEAM-WAN-01V.pharmax.local
Is Public	Yes
Management Port	6164\TCP
Service IP Address	
Traffic Port	6165\TCP
Max Tasks Count	1
Download Stream Count	5
Enable Performance Mode	No
Configured Cache	Unknown
Cache Path	C:\VeeamWAN
Max Cache Size	10 GB

Table 61 - Wan Accelerator - VEEAM-WAN-01V.pharmax.local

### 1.1.12 Wan Accelerator Diagram.

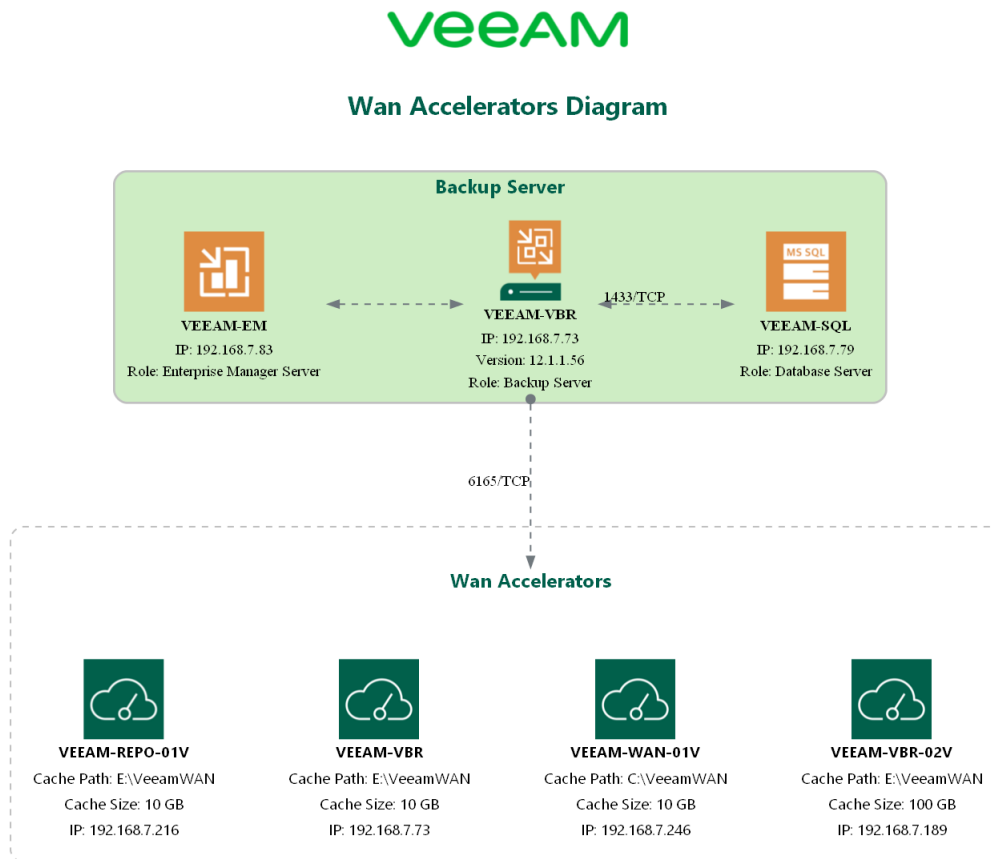


Image preview: Opens the image in a new tab to view it at full resolution.

### 1.1.13 Service Providers

The following section provides a summary about configured Veeam Cloud Service Providers.

DNS Name	Cloud Connect Type	Managed By Provider
uk-rep04.peasoup.net	Unknown	No
vcc.virtualdcs.co.uk	Unknown	Yes

Table 62 - Service Providers - VEEAM-VBR

### 1.1.13.1 Service Providers Configuration

#### 1.1.13.1.1 uk-rep04.peasoup.net

##### General Information

DNS Name	uk-rep04.peasoup.net
Ip Address	185.230.149.8
Port	6180
Credentials	jcolonfzenpr
Certificate Expiration Date	07/11/2024 19:59:59
Managed By Service Provider	No
Description	PeaSoup Veeam Cloud Connect Trial

Table 63 - General Information - uk-rep04.peasoup.net

#### 1.1.13.1.2 vcc.virtualdcs.co.uk

##### General Information

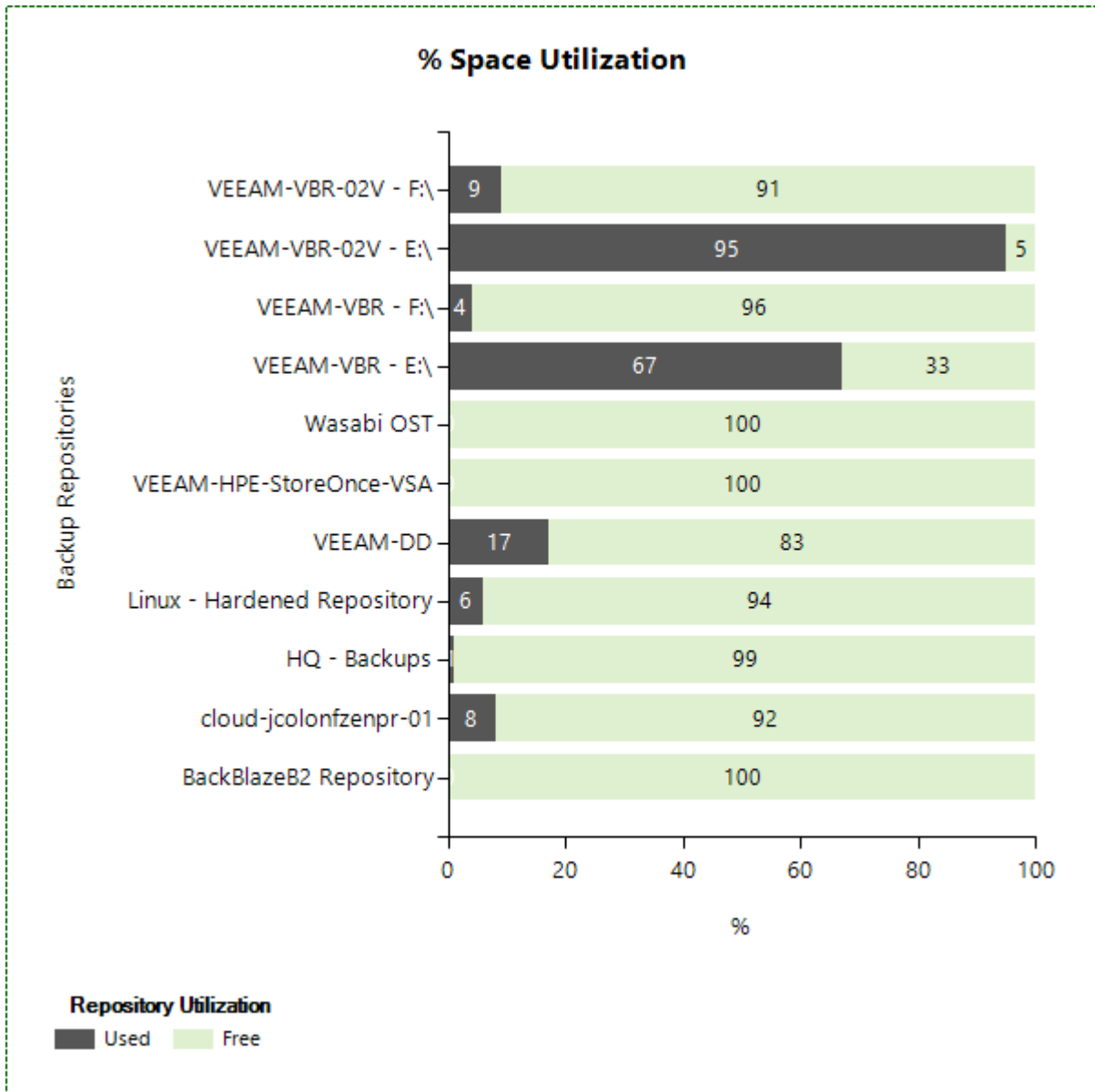
DNS Name	vcc.virtualdcs.co.uk
Ip Address	158.255.230.229
Port	6180
Credentials	VCC-ZenPRSolutions
Certificate Expiration Date	05/26/2024 05:22:33
Managed By Service Provider	Yes
Description	Veeam Cloud Connect service from virtualDCS

Table 64 - General Information - vcc.virtualdcs.co.uk



### 1.1.14 Backup Repository

The following section provides Backup Repository summary information.



Name	Total Space	Free Space	Used Space %	Status
VEEAM-HPE-StoreOnce-VSA	0 Gb	0 Gb	0	Unavailable
Wasabi OST	10240 Gb	10239 Gb	0	Available
BackBlazeB2 Repository	0 Gb	0 Gb	0	Available
HQ - Backups	199 Gb	198 Gb	1	Available
VEEAM-VBR - F:\	99 Gb	95 Gb	4	Available

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Name	Total Space	Free Space	Used Space %	Status
Linux - Hardened Repository	199 Gb	187 Gb	6	Available
cloud-jcolonfzenpr-01	1000 Gb	923 Gb	8	Unavailable
VEEAM-VBR-02V - F:\	99 Gb	90 Gb	9	Available
VEEAM-DD	351 Gb	291 Gb	17	Unavailable
VEEAM-VBR - E:\	499 Gb	167 Gb	67	Available
VEEAM-VBR-02V - E:\	99 Gb	5 Gb	95	Available

Table 65 - Backup Repository - VEEAM-VBR

### 1.1.14.1 Backup Repository Configuration

The following section provides a detailed information of the Veeam Backup Repository Configuration.

#### BackBlazeB2 Repository

Backup Proxy	--
Integration Type	S3-compatible
Path	--
Connection Type	AmazonS3Compatible
Max Task Count	-1
Use Nfs On Mount Host	Yes
San Snapshot Only	No
Dedup Storage	No
Split Storages Per Vm	Yes
Immutability Supported	No
Immutability Enabled	No
Immutability Interval	30
Version Of Creation	12.1.0.2131
Has Backup Chain Length Limitation	No
Object Lock Enabled	No
Mount Server	VEEAM-VBR.pharmax.local

Table 66 - Backup Repository - BackBlazeB2 Repository

#### cloud-jcolonfzenpr-01

Backup Proxy	uk-rep04.peasoup.net
Integration Type	Cloud
Path	\jcolonfzenpr
Connection Type	Cloud

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Max Task Count	-1
Use Nfs On Mount Host	No
San Snapshot Only	No
Dedup Storage	No
Split Storages Per Vm	Yes
Immutability Supported	Yes
Immutability Enabled	No
Immutability Interval	7
Version Of Creation	11.0.1.1261
Has Backup Chain Length Limitation	No

Table 67 - Backup Repository - cloud-jcolonfzenpr-01

**Health Check:**

**Best Practice:** Veeam recommend to implement Immutability where it is supported. It is done for increased security: immutability protects your data from loss as a result of attacks, malware activity or any other injurious actions.

HQ - Backups

Backup Proxy	VEEAM-REPO-01V.pharmax.local
Integration Type	Windows
Path	E:\Backups
Connection Type	WinLocal
Max Task Count	4
Use Nfs On Mount Host	Yes
San Snapshot Only	No
Dedup Storage	No
Split Storages Per Vm	Yes
Immutability Supported	No
Immutability Enabled	No
Immutability Interval	7
Version Of Creation	11.0.1.1261
Has Backup Chain Length Limitation	No

Table 68 - Backup Repository - HQ - Backups

Linux - Hardened Repository

Backup Proxy	veeam-lnx-px.pharmax.local
Integration Type	Linux
Path	/backup_data/backups
Connection Type	LinuxLocal
Max Task Count	4

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Use Nfs On Mount Host	Yes
San Snapshot Only	No
Dedup Storage	No
Split Storages Per Vm	No
Immutability Supported	No
Immutability Enabled	No
Immutability Interval	7
Version Of Creation	11.0.1.1261
Has Backup Chain Length Limitation	No

Table 69 - Backup Repository - Linux - Hardened Repository

VEEAM-DD

Backup Proxy	VEEAM-VBR.pharmax.local
Integration Type	Dell Data Domain
Path	ddboost://VEEAM-DD.pharmax.local:VEEAM_BACKUP@/
Connection Type	DDBoost
Max Task Count	15
Use Nfs On Mount Host	Yes
San Snapshot Only	No
Dedup Storage	Yes
Split Storages Per Vm	Yes
Immutability Supported	Yes
Immutability Enabled	No
Immutability Interval	7
Version Of Creation	9.5.4.2866
Has Backup Chain Length Limitation	Yes

Table 70 - Backup Repository - VEEAM-DD

**Health Check:**

**Best Practice:** Veeam recommend to implement Immutability where it is supported. It is done for increased security: immutability protects your data from loss as a result of attacks, malware activity or any other injurious actions.

VEEAM-HPE-StoreOnce-VSA

Backup Proxy	VEEAM-VBR.pharmax.local
Integration Type	HPE StoreOnce
Path	storeonce://veeam-hsv.pharmax.local:VEEAM-VLT-HPE@/
Connection Type	HPStoreOnceIntegration
Max Task Count	4
Use Nfs On Mount Host	Yes

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San Snapshot Only	No
Dedup Storage	Yes
Split Storages Per Vm	Yes
Immutability Supported	Yes
Immutability Enabled	No
Immutability Interval	7
Version Of Creation	11.0.0.837
Has Backup Chain Length Limitation	Yes

Table 71 - Backup Repository - VEEAM-HPE-StoreOnce-VSA

**Health Check:**

**Best Practice:** Veeam recommend to implement Immutability where it is supported. It is done for increased security: immutability protects your data from loss as a result of attacks, malware activity or any other injurious actions.

Wasabi OST

Backup Proxy	--
Integration Type	Wasabi
Path	--
Connection Type	WasabiS3
Max Task Count	4
Use Nfs On Mount Host	Yes
San Snapshot Only	No
Dedup Storage	No
Split Storages Per Vm	Yes
Immutability Supported	No
Immutability Enabled	No
Immutability Interval	30
Version Of Creation	12.1.0.2131
Has Backup Chain Length Limitation	No
Object Lock Enabled	No
Mount Server	VEEAM-VBR.pharmax.local

Table 72 - Backup Repository - Wasabi OST

VEEAM-VBR - E:\

Extent of ScaleOut Backup Repository	SOBR - Minio
Backup Proxy	VEEAM-VBR.pharmax.local
Integration Type	Windows
Path	E:\Backups
Connection Type	WinLocal

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Max Task Count	4
Use Nfs On Mount Host	Yes
San Snapshot Only	No
Dedup Storage	No
Split Storages Per Vm	No
Immutability Supported	No
Immutability Enabled	No
Immutability Interval	7
Version Of Creation	10.0.0.4461
Has Backup Chain Length Limitation	No

Table 73 - Backup Repository - VEEAM-VBR - E:\

VEEAM-VBR - F:\

Extent of ScaleOut Backup Repository	SOBR - AWS S3
Backup Proxy	VEEAM-VBR.pharmax.local
Integration Type	Windows
Path	F:\Backup
Connection Type	WinLocal
Max Task Count	4
Use Nfs On Mount Host	Yes
San Snapshot Only	No
Dedup Storage	No
Split Storages Per Vm	No
Immutability Supported	No
Immutability Enabled	No
Immutability Interval	7
Version Of Creation	9.0.0.0
Has Backup Chain Length Limitation	No

Table 74 - Backup Repository - VEEAM-VBR - F:\

VEEAM-VBR-02V - E:\

Extent of ScaleOut Backup Repository	SOBR - AWS S3
Backup Proxy	VEEAM-VBR-02V.pharmax.local
Integration Type	Windows
Path	E:\Backups
Connection Type	WinLocal
Max Task Count	4
Use Nfs On Mount Host	Yes
San Snapshot Only	No
Dedup Storage	No

Split Storages Per Vm	No
Immutability Supported	No
Immutability Enabled	No
Immutability Interval	7
Version Of Creation	11.0.1.1261
Has Backup Chain Length Limitation	No

Table 75 - Backup Repository - VEEAM-VBR-02V - E:\

VEEAM-VBR-02V - F:\

Extent of ScaleOut Backup Repository	SOBR - Azure Blob
Backup Proxy	VEEAM-VBR-02V.pharmax.local
Integration Type	Windows
Path	F:\Backups
Connection Type	WinLocal
Max Task Count	4
Use Nfs On Mount Host	Yes
San Snapshot Only	No
Dedup Storage	No
Split Storages Per Vm	No
Immutability Supported	No
Immutability Enabled	No
Immutability Interval	7
Version Of Creation	11.0.1.1261
Has Backup Chain Length Limitation	No

Table 76 - Backup Repository - VEEAM-VBR-02V - F:\

### 1.1.15 Object Storage Repository

The following section provides a summary about the Veeam Object Storage Repository.

Name	Type	Connection Type	Gateway Server
AWS - S3 - Backup	AmazonS3	Gateway	VEEAM-VBR.pharmax.local
BackBlazeB2 Repository	AmazonS3Compatible	Direct	Direct Mode
Object storage repository - Minio	AmazonS3Compatible	Gateway	VEEAM-VBR.pharmax.local veeam-lnx-px.pharmax.local VEEAM-VBR-02V.pharmax.local
OS - Azure Blob	AzureBlob	Gateway	VEEAM-VBR.pharmax.local
Wasabi OST	AmazonS3Compatible	Gateway	VEEAM-VBR.pharmax.local

Table 77 - Object Storage Repository - VEEAM-VBR

### 1.1.15.1 Object Storage Repository Configuration

The following section provides detailed information about Object Storage Backup Repository

#### AWS - S3 - Backup

Name	AWS - S3 - Backup
Type	AmazonS3
Amazon S3 Folder	backupstest
Immutability Period	30
Immutability Enabled	No
Size Limit Enabled	No
Size Limit	10240
Connection Type	Gateway
Gateway Server	VEEAM-VBR.pharmax.local
Use IA Storage Class	No
Use OZ IA Storage Class	No

Table 78 - Object Storage Repository - AWS - S3 - Backup

#### **Health Check:**

**Best Practice:** Veeam recommend to implement Immutability where it is supported. It is done for increased security: immutability protects your data from loss as a result of attacks, malware activity or any other injurious actions.

#### BackBlazeB2 Repository

Name	BackBlazeB2 Repository
Service Point	https://s3.us-east-005.backblazeb2.com
Type	AmazonS3Compatible
Amazon S3 Folder	backups
Immutability Period	30
Immutability Enabled	No
Size Limit Enabled	No
Size Limit	10240
Connection Type	Direct

Table 79 - Object Storage Repository - BackBlazeB2 Repository

#### **Health Check:**

**Best Practice:** Veeam recommend to implement Immutability where it is supported. It is done for increased security: immutability protects your data from loss as a result of attacks, malware activity or any other injurious actions.



Object storage repository - Minio

Name	Object storage repository - Minio
Service Point	https://veeam-minio.pharmax.local:9000/
Type	AmazonS3Compatible
Amazon S3 Folder	SOBR
Immutability Period	30
Immutability Enabled	No
Size Limit Enabled	Yes
Size Limit	10240
Connection Type	Gateway
Gateway Server	VEEAM-VBR.pharmax.local veeam-lnx-px.pharmax.local VEEAM-VBR-02V.pharmax.local

Table 80 - Object Storage Repository - Object storage repository - Minio

**Health Check:**

**Best Practice:** Veeam recommend to implement Immutability where it is supported. It is done for increased security: immutability protects your data from loss as a result of attacks, malware activity or any other injurious actions.

OS - Azure Blob

Name	OS - Azure Blob
Type	AzureBlob
Immutability Enabled	No
Size Limit Enabled	No
Size Limit	10240
Connection Type	Gateway
Gateway Server	VEEAM-VBR.pharmax.local
Azure Blob Name	Veeam
Azure Blob Container	veeam-backup

Table 81 - Object Storage Repository - OS - Azure Blob

**Health Check:**

**Best Practice:** Veeam recommend to implement Immutability where it is supported. It is done for increased security: immutability protects your data from loss as a result of attacks, malware activity or any other injurious actions.

## Wasabi OST

Name	Wasabi OST
Service Point	https://s3.us-west-1.wasabisys.com
Type	AmazonS3Compatible
Amazon S3 Folder	backupveeam
Immutability Period	30
Immutability Enabled	No
Size Limit Enabled	Yes
Size Limit	10240
Connection Type	Gateway
Gateway Server	VEEAM-VBR.pharmax.local

Table 82 - Object Storage Repository - Wasabi OST

### **Health Check:**

**Best Practice:** Veeam recommend to implement Immutability where it is supported. It is done for increased security: immutability protects your data from loss as a result of attacks, malware activity or any other injurious actions.

## 1.1.16 Archive Object Storage Repository

The following section provides detailed information about Archive Object Storage Backup Repository

### AWS - S3 Glacier

Gateway Server	veeam-lnx-px
Gateway Server Enabled	--
Immutability Enabled	No
Archive Type	AmazonS3Glacier
Deep Archive	Yes
Proxy Instance Type	m5a.large
Proxy Instance vCPU	2
Proxy Instance Memory	8
Proxy Subnet	172.31.32.0/20
Proxy Security Group	veeam-auto-cfdff081-b091-4108-a943-a03340a08644
Proxy Availability Zone	us-east-1b

Table 83 - Archive Object Storage Repository - AWS - S3 Glacier

### **Health Check:**

**Best Practice:** Veeam recommend to implement Immutability where it is supported. It is done for increased security: immutability protects your data from loss as a result of attacks, malware activity or any other injurious actions.

Azure - Blob Archives

Gateway Server	veeam-lnx-px
Gateway Server Enabled	--
Immutability Enabled	No
Archive Type	AzureArchive
Service Type	ArchiveTier
Archive Container	veeamarchive
Archive Folder	Archive
Proxy Resource Group	
Proxy Network	
Proxy VM Size	
Proxy VM vCPU	
Proxy VM Memory	0
Proxy VM Max Disks	
Proxy VM Location	

Table 84 - Archive Object Storage Repository - Azure - Blob Archives

**Health Check:**

**Best Practice:** Veeam recommend to implement Immutability where it is supported. It is done for increased security: immutability protects your data from loss as a result of attacks, malware activity or any other injurious actions.

### 1.1.17 Backup Repository Diagram.

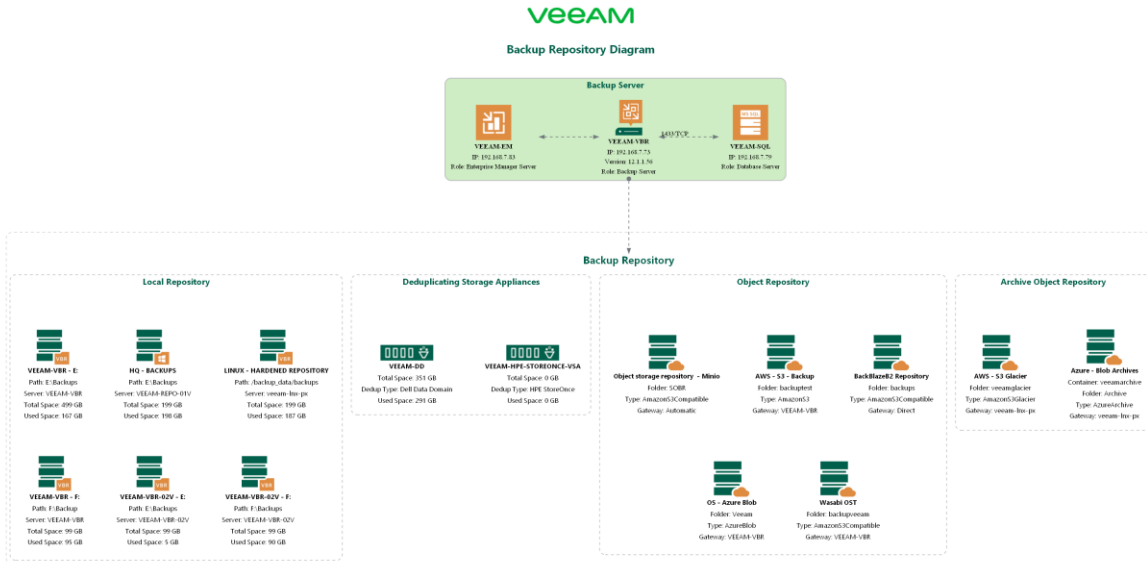


Image preview: Opens the image in a new tab to view it at full resolution.

### 1.1.18 ScaleOut Backup Repository

The following section provides a summary about ScaleOut Backup Repository

Name	Performance Tier	Capacity Tier	Archive Tier
SOBR - AWS S3	VEEAM-VBR - F:\ VEEAM-VBR-02V - E:\	AWS - S3 - Backup	AWS - S3 Glacier
SOBR - Azure Blob	VEEAM-VBR-02V - F:\	OS - Azure Blob	Azure - Blob Archives
SOBR - Minio	VEEAM-VBR - E:\	Object storage repository - Minio	Not configured

Table 85 - Scale Backup Repository - VEEAM-VBR

#### 1.1.18.1 ScaleOut Backup Repository Configuration

The following section provides a detailed information about the ScaleOut Backup Repository

##### 1.1.18.1.1 SOBR - AWS S3

###### General Settings

Placement Policy	Performance
------------------	-------------

Veeam Backup & Replication As Built Report - v1.0

Use Per VM Backup Files	Yes
Perform Full When Extent Offline	No
Use Capacity Tier	Yes
Encrypt data uploaded to Object Storage	No
Encryption Key	Disabled
Move backup file older than	14
Override Policy Enabled	No
Override Space Threshold	90
Use Archive GFS Tier	Yes
Archive GFS Backup older than	90 days
Store archived backup as standalone fulls	No
Cost Optimized Archive Enabled	Yes
Description	Created by PHARMAX\jocolon at 12/21/2021 8:08 PM.

Table 86 - General Settings - SOBR - AWS S3

**Health Check:**

**Best Practice:** Veeam Backup & Replication allows you to encrypt offloaded data. With the Encrypt data uploaded to object storage setting selected, the entire collection of blocks along with the metadata will be encrypted while being offloaded regardless of the jobs encryption settings. This helps you protect the data from an unauthorized access.

Performance Tier

Name	VEEAM-VBR - F:\
Repository	VEEAM-VBR - F:\
Path	F:\Backup
Total Space	99 99 GB
Used Space	95 5 GB
Status	Normal

Table 87 - Performance Tier - VEEAM-VBR - F:\

Performance Tier

Name	VEEAM-VBR-02V - E:\
Repository	VEEAM-VBR-02V - E:\
Path	E:\Backups
Total Space	99 99 GB
Used Space	95 5 GB
Status	Normal

Table 88 - Performance Tier - VEEAM-VBR-02V - E:\

Veeam Backup & Replication As Built Report - v1.0

Capacity Tier

Name	AWS - S3 - Backup
Type	AmazonS3
Amazon S3 Folder	backuptest
Use Gateway Server	--
Gateway Server	VEEAM-VBR.pharmax.local
Immutability Period	30
Immutability Enabled	No
Size Limit Enabled	No
Size Limit	10240
Use IA Storage Class	No
Use OZ IA Storage Class	No

Table 89 - Capacity Tier - AWS - S3 - Backup

Offload Window Time Period

Enabled \ Disabled

H	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11
Sun																								
Mon																								
Tue																								
Wed																								
Thu																								
Fri																								
Sat																								

Table 90 - Offload Window - AWS - S3 - Backup

Archive Tier

Name	AWS - S3 Glacier
Type	AmazonS3Glacier
Use Gateway Server	--
Gateway Server	veeam-lnx-px.pharmax.local

Table 91 - Archive Tier - AWS - S3 Glacier

1.1.18.1.2 SOBR - Azure Blob

General Settings

Placement Policy	Data Locality
Use Per VM Backup Files	Yes
Perform Full When Extent Offline	No

Veeam Backup & Replication As Built Report - v1.0

Use Capacity Tier	Yes
Encrypt data uploaded to Object Storage	Yes
Encryption Key	Password Global
Move backup file older than	14
Override Policy Enabled	No
Override Space Threshold	90
Use Archive GFS Tier	Yes
Archive GFS Backup older than	90 days
Store archived backup as standalone fulls	No
Cost Optimized Archive Enabled	Yes
Description	Created by PHARMAX\jocolon at 12/22/2021 8:15 PM.

Table 92 - General Settings - SOBR - Azure Blob

Performance Tier

Name	VEEAM-VBR-02V - F:\
Repository	VEEAM-VBR-02V - F:\
Path	F:\Backups
Total Space	99 GB
Used Space	90 GB
Status	Normal

Table 93 - Performance Tier - VEEAM-VBR-02V - F:\

Capacity Tier

Name	OS - Azure Blob
Type	AzureBlob
Use Gateway Server	--
Gateway Server	VEEAM-VBR.pharmax.local
Immutability Period	30
Immutability Enabled	No
Size Limit Enabled	No
Size Limit	10240
Azure Blob Name	Veeam
Azure Blob Container	veeam-backup

Table 94 - Capacity Tier - OS - Azure Blob

Offload Window Time Period

Enabled \ Disabled

H	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11
Sun																								
Mon																								
Tue																								
Wed																								
Thu																								
Fri																								
Sat																								

Table 95 - Offload Window - OS - Azure Blob

Archive Tier

Name	Azure - Blob Archives
Type	AzureArchive
Use Gateway Server	--
Gateway Server	veeam-lnx-px.pharmax.local
Azure Service Type	ArchiveTier
Azure Blob Name	Archive
Azure Blob Container	veeamarchive

Table 96 - Archive Tier - Azure - Blob Archives

1.1.18.1.3 SOBR - Minio

General Settings

Placement Policy	Data Locality
Use Per VM Backup Files	Yes
Perform Full When Extent Offline	No
Use Capacity Tier	Yes
Encrypt data uploaded to Object Storage	Yes
Encryption Key	Password Global
Move backup file older than	14
Override Policy Enabled	No
Override Space Threshold	90
Use Archive GFS Tier	No
Archive GFS Backup older than	90 days
Store archived backup as standalone fulls	No
Cost Optimized Archive Enabled	Yes



Description	Created by PHARMAX\administrator at 2/27/2021 7:29 PM.
-------------	--

Table 97 - General Settings - SOBR - Minio

Performance Tier

Name	VEEAM-VBR - E:\
Repository	VEEAM-VBR - E:\
Path	E:\Backups
Total Space	499 GB
Used Space	167 GB
Status	Normal

Table 98 - Performance Tier - VEEAM-VBR - E:\

Capacity Tier

Name	Object storage repository - Minio
Service Point	https://veeam-minio.pharmax.local:9000/
Type	AmazonS3Compatible
Amazon S3 Folder	SOBR
Use Gateway Server	--
Gateway Server	VEEAM-VBR.pharmax.local veeam-lnx-px.pharmax.local VEEAM-VBR-02V.pharmax.local
Immutability Period	30
Immutability Enabled	No
Size Limit Enabled	Yes
Size Limit	10240

Table 99 - Capacity Tier - Object storage repository - Minio

Offload Window Time Period

Enabled \ Disabled

H	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	
Sun																									
Mon																									
Tue																									
Wed																									
Thu																									
Fri																									
Sat																									

Table 100 - Offload Window - Object storage repository - Minio

### 1.1.19 ScaleOut Backup Repository Diagram.

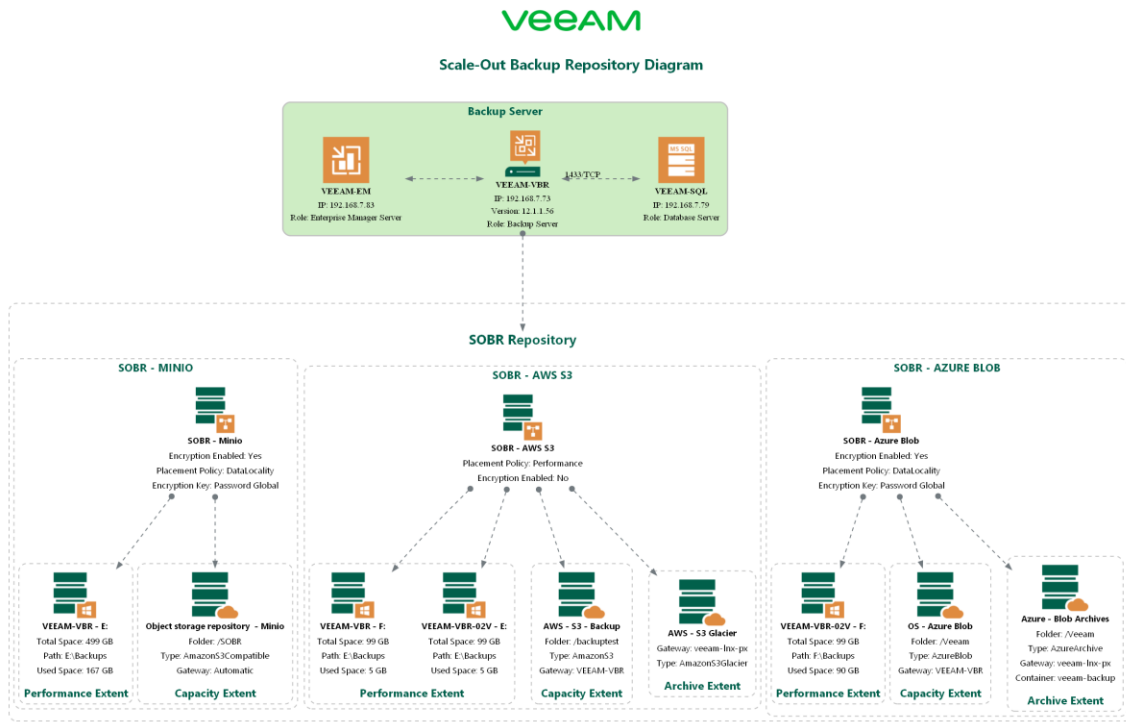


Image preview: Opens the image in a new tab to view it at full resolution.

### 1.1.20 SureBackup Configuration

The following section provides configuration information about SureBackup.

#### 1.1.20.1 Application Groups

The following section provides a summary about Application Groups.

Name	VM List
HV - APPGroup	WIN
PHARMAX-AG	smallserver-01v, LINUX-VM

Table 101 - Application Group - VEEAM-VBR

1.1.20.2 HV - APPGroup VM Settings

WIN

VM Name	WIN
Credentials	--
Role	--
Test Script	--
Startup Options	Allocated Memory: 100 Heartbeat Check: Yes Maximum Boot Time: 600 App Init Timeout: 120 Ping Check: Yes

Table 102 - Application Group VM Settings - WIN

1.1.20.3 PHARMAX-AG VM Settings

smallserver-01v

VM Name	smallserver-01v
Credentials	--
Role	--
Test Script	--
Startup Options	Allocated Memory: 100 Heartbeat Check: Yes Maximum Boot Time: 600 App Init Timeout: 120 Ping Check: Yes

Table 103 - Application Group VM Settings - smallserver-01v

LINUX-VM

VM Name	LINUX-VM
Credentials	root
Role	DNSServer, DomainControllerAuthoritative, GlobalCatalog, MailServer, SQLServer, VBO, WebServer
Test Script	WebServer, SQLServer, DNSServer, DomainController, GlobalCatalog, MailServer, VBO
Startup Options	Allocated Memory: 100 Heartbeat Check: No Maximum Boot Time: 7800 App Init Timeout: 120 Ping Check: No

Table 104 - Application Group VM Settings - LINUX-VM

### 1.1.20.4 Virtual Labs

The following section provides a summary about SureBackup Virtual Lab.

Name	Platform	Physical Host	Physical Host Version
PHARMAX-VLAB	VMWare	esxsvr-00f	VMware ESXi 8.0.2 build-22380479
PHARMAX-VLAB-HYPER-V	HyperV	VEEAM-HV-03	Microsoft Windows Server 2022 Datacenter Evaluation 64-bit (10.0.20348 build:20348)

Table 105 - Virtual Lab - VEEAM-VBR

#### 1.1.20.4.1 vSphere Virtual Labs Configuration

##### 1.1.20.4.1.1 PHARMAX-VLAB Settings

Host	esxsvr-00f.pharmax.local
Resource Pool	PHARMAX-VLAB
VM Folder	PHARMAX-VLAB
Cache Datastore	SSD-VM-HIGH-CAPACITY-PERF-KN
Proxy Appliance Enabled	Yes
Proxy Appliance	PHARMAX-VLAB
Networking Type	Advanced
Production Network	DVS-Esxi-VM-Network-DR DVS-ESXi-MANAGEMENT
Isolated Network	PHARMAX-VLAB DVS-Esxi-VM-Network-DR PHARMAX-VLAB DVS-ESXi-MANAGEMENT
Routing Between vNics	No
Multi Host	No
Static IP Mapping	Yes

Table 106 - Virtual Lab Settings - PHARMAX-VLAB

#### vNIC Settings

Isolated Network	VLAN ID	DHCP Enabled	Network Properties
PHARMAX-VLAB DVS-ESXi-MANAGEMENT	5	Yes	IP Address: 192.168.5.254 Subnet Mask: 255.255.255.0 Masquerade IP: 192.168.255.0 DNS Server: 192.168.5.1
PHARMAX-VLAB DVS-Esxi-VM-Network-DR	33	Yes	IP Address: 10.10.33.254 Subnet Mask: 255.255.255.0 Masquerade IP: 10.255.255.0 DNS Server: 192.168.5.1

Table 107 - vNIC Settings - PHARMAX-VLAB

IP Address Mapping

Production Network	Isolated IP Address	Access IP Address	Notes
DVS-Esxi-VM-Network-DR	10.10.33.4	192.168.5.3	Prueba

Table 108 - IP Address Mapping - PHARMAX-VLAB

1.1.20.4.2 Hyper-V Virtual Labs Configuration

1.1.20.4.2.1 PHARMAX-VLAB-HYPER-V Settings

Host	VEEAM-HV-03.pharmax.local
Path	C:\VeeamVirtualLabs\PHARMAX-VLAB-HYPER-V
Proxy Appliance Enabled	Yes
Proxy Appliance	PHARMAX-VLAB-HYPER-V
Networking Type	Advanced
Isolated Network	Lab Isolated Network (PHARMAX-VLAB-HYPER-V)
Static IP Mapping	Yes

Table 109 - Virtual Lab Settings - PHARMAX-VLAB-HYPER-V

IP Address Mapping

Production Network	Isolated IP Address	Access IP Address	Notes
Lab Isolated Network (PHARMAX-VLAB-HYPER-V)	192.168.7.233	192.168.233.10	IP Address used to access webinstance

Table 110 - IP Address Mapping - PHARMAX-VLAB-HYPER-V