



# Veeam Backup & Replication As Built Report

As Built Report

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:

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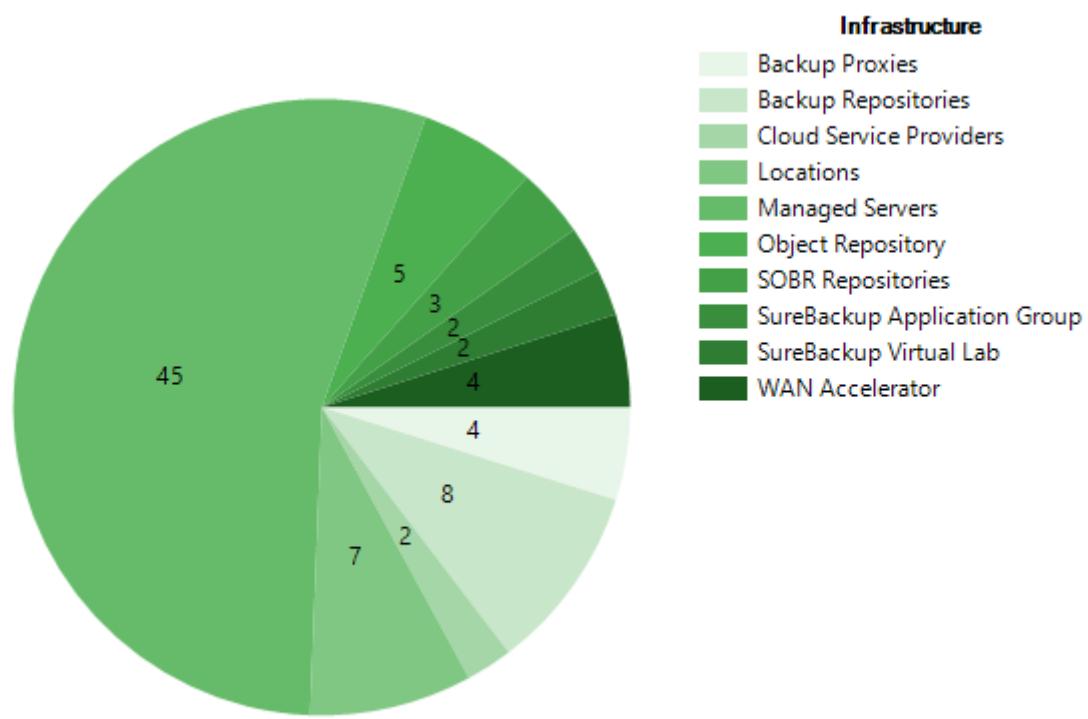
## 1 VEEAM-VBR

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

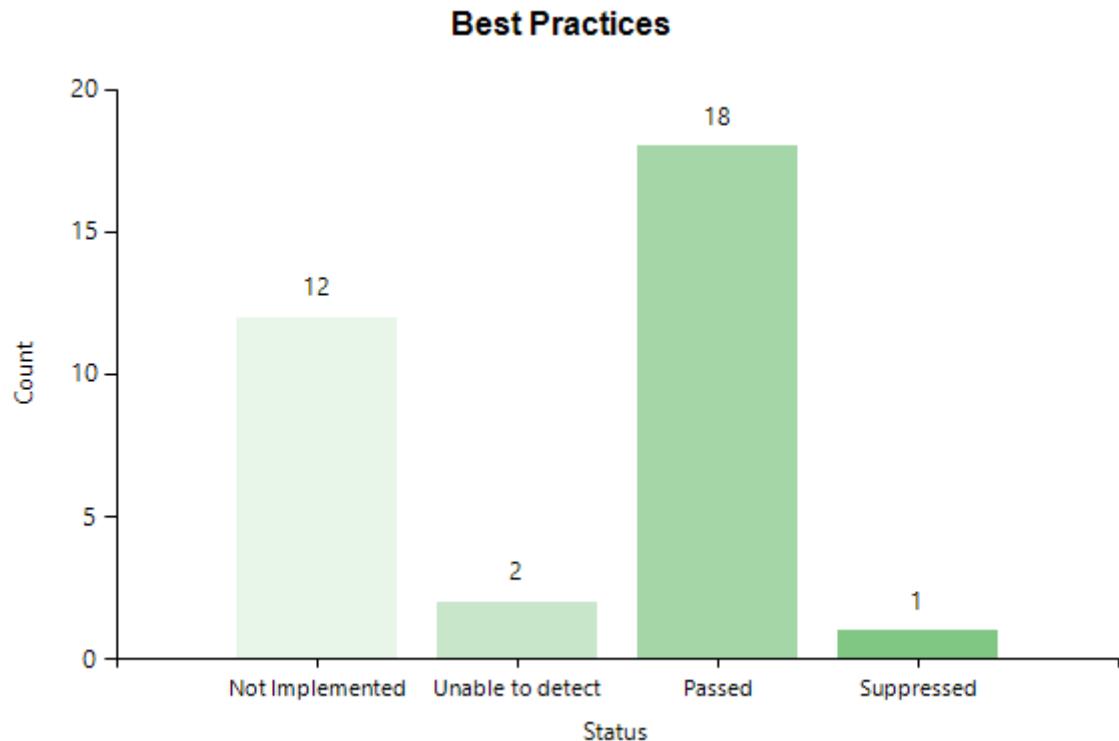
#### Backup Infrastructure Inventory



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)	20/10
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 shoul 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	12.1.0.2131
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:

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.

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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	6000c299dbe6847 6926d68da7e017a c1	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	51 GB	0
E	VEEAM2	ReFS	500 GB	3 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 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

Display Name	Short Name	Status
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	VeeamGCPSCv	Running
Veeam Kubernetes Service	VeeamKastenSvc	Running
Veeam Management Agent Service	VeeamManagementAgentSvc	Running
Veeam Mount Service	VeeamMountSvc	Running
Veeam vPower NFS Service	VeeamNFSSvc	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

### 1.1.2 Enterprise Manager Information

The following table details information about Veeam Enterprise Manager configuration status

Server Name	VEEAM-EM.pharmax.local
Server URL	<a href="https://VEEAM-EM.pharmax.local:9443">https://VEEAM-EM.pharmax.local:9443</a>
Skip License Push	No
Is Connected	Yes

Table 11 - Enterprise Manager - VEEAM-VBR

### 1.1.3 License Information

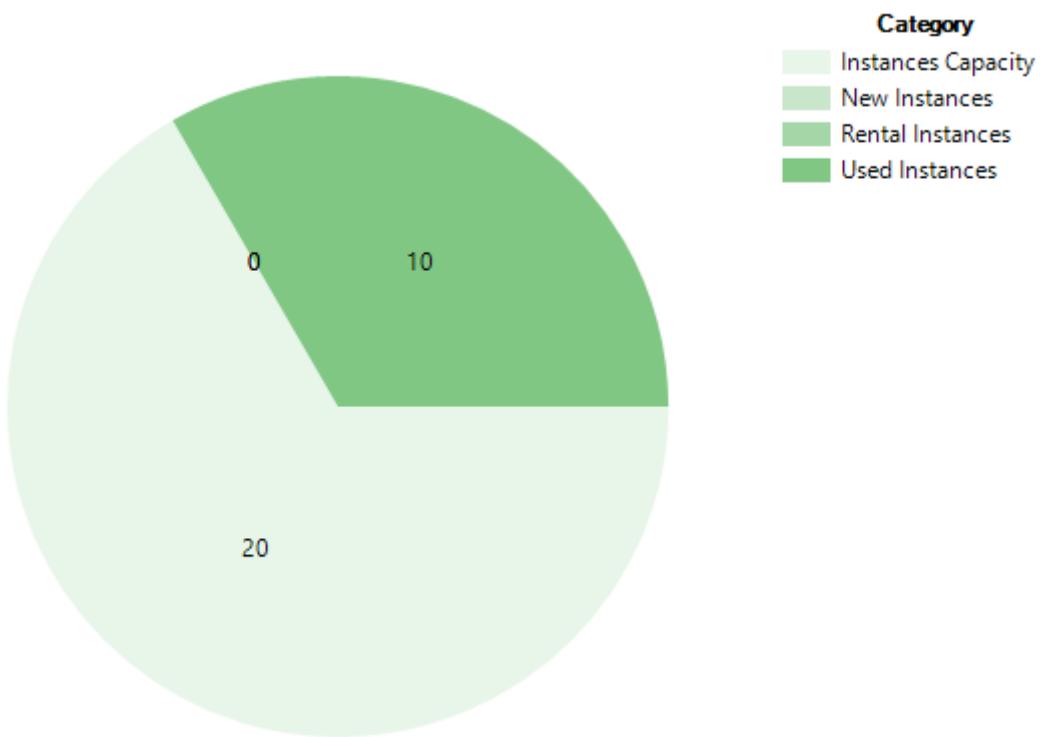
The following section provides a summary about the installed licenses

#### 1.1.3.1 Installed License Information

Licensed To	Zen PR Solutions
Edition	EnterprisePlus
Type	NFR
Status	Valid
Expiration Date	Saturday, March 2, 2024
Support Id	N/A
Support Expiration Date	--
Auto Update Enabled	No
Free Agent Instance	Yes
Cloud Connect	Disabled

Table 12 - Licenses - VEEAM-VBR

### Instance License Usage



Instances Capacity	Used Instances	New Instances	Rental Instances
20	10	0	0

Table 13 - Instance License Usage - VEEAM-VBR

### Per Instance Type License Usage

Type	Count	Multiplier	Used Instances
VM	10	1	10
FileShare	0	1	0

Table 14 - 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

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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	01/17/2024 10:00:00
Target	Linux - Hardened Repository
Enabled	Yes
LastResult	Failed

Table 15 - Configuration Backup Settings - VEEAM-VBR

### 1.1.4.2 Email Notification

Email Recipient	veeam_admin@pharmax.local,jcolonf@zenprsolution.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 16 - Email Notification Settings - VEEAM-VBR

### 1.1.4.3 Event Forwarding

SNMP Servers	--
Syslog Servers	--

Table 17 - Event Forwarding - VEEAM-VBR

#### Health Check:

**Security Best Practice:** It is recommended 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	<b>Disabled</b>
---------------------------------------	-----------------

Table 18 - Backup Storage Notification - VEEAM-VBR

##### Production Datastore

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

Table 19 - Production Datastore Notification - VEEAM-VBR

##### Support Expiration

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

Table 20 - Support Expiration Notification - VEEAM-VBR

##### Update Notification

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

Table 21 - Update Notification Notification - VEEAM-VBR

#### 1.1.4.5 Storage Latency Control

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

Table 22 - 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 23 - Per Datastore Latency Control Options - VEEAM-VBR

#### 1.1.4.6 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 24 - TLS Certificate - VEEAM-VBR

#### 1.1.4.7 Network Traffic Rules

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 25 - Network Traffic Rules - Inter-Site-to-DR

#### Throttling Windows Time Period

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 26 - 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 27 - 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 28 - Preferred Networks - VEEAM-VBR

#### 1.1.4.8 Malware Detection

Inline entropy analysis	Yes
Sensitivity	Normal
File system activity analysis	Yes
Update malware definition automatically	No
File Masks: Suspicious Extensions	*.ccsfs, *.djdjej
File Masks: 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	fvfvf@gmail.com, rebelinux@mail.com
Use custom notification settings	No
Notify on success	No
Notify on warning	Yes
Notify on error	Yes

Table 29 - Malware Detection - VEEAM-VBR

#### 1.1.4.9 Global Exclusions

##### Malware Detection Exclusions

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

Table 30 - Malware Detection Exclusions - VEEAM-VBR

##### VM Exclusions

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

Table 31 - 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
Administrators	Group	BackupAdmin

Name	Type	Role
PHARMAX\veeam_admin	User	BackupOperator
PHARMAX\vruser	User	BackupOperator

Table 32 - Roles and Users - VEEAM-VBR

### 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
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
pharmax\veeam_gmsa	12/29/2023	pharmax\veeam_gmsa
rebelinux@gmail.com	12/28/2021	rebelinux@gmail.com
root	12/23/2023	root
root	12/14/2019	Tenant-side network extension appliance credentials
root	12/18/2019	root
root	7/20/2022	ESXi root account
root	12/14/2019	Provider-side network extension appliance credentials
root	12/14/2019	Helper appliance credentials
root	12/14/2019	Azure helper appliance credentials
SYS	12/18/2019	SYS
veeam	7/6/2021	veeam_dx
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	VEEAM-VBR
VEEAM-VBR	6/30/2021	HP StoreOne VSA
ZenPRSSolutions-130858420/ ZenPRSSolutions-130858420	6/9/2022	ZenPRSSolutions-130858420/ ZenPRSSolutions-130858420

Table 33 - 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 34 - 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>

	[Thumbprint] 3E26DBF1F93C2C2628C023F5C52530BFAFF0D9BE
Port	TCP/5696
Description	--

Table 35 - 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-348b1391bfco
Mexico	e9ccc857-5620-48e7-b229-5bef94293cc3
San Juan	a7643c0e-ed73-4803-85f1-eef451169a54
Texas	21037406-af0a-4f39-9393-13c8f3d0c8be

Table 36 - Location - VEEAM-VBR

### 1.1.9 Virtualization Servers and Hosts

Name	Description	Status
AWSS3	Amazon S3	Available
veeam-lnx-px.pharmax.local	Linux host	Unavailable
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	Unavailable
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	Unavailable
VEEAM-VBR.pharmax.local	Microsoft Windows server	Available
VEEAM-VBR-02V.pharmax.local	Microsoft Windows server	Unavailable
VEEAM-WAN-01V.pharmax.local	Microsoft Windows server	Unavailable
VEEAM-HV-03.pharmax.local	Microsoft Windows server	Available
server-dc-01v	Microsoft Windows server	Available
192.168.5.18:/oracle	NFS file share	Available

Name	Description	Status
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-01v\UEMConfig	SMB file share	Available
\isilon_nas.pharmax.local\DATA	SMB file share	Available
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 37 - 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

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Services Credential	--
Status	Unavailable

Table 38 - 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 39 - 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	Unavailable

Table 40 - Backup Proxy - VEEAM-VBR-02V.pharmax.local

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### 1.1.10.1.1 VMware Backup Proxy Diagram.

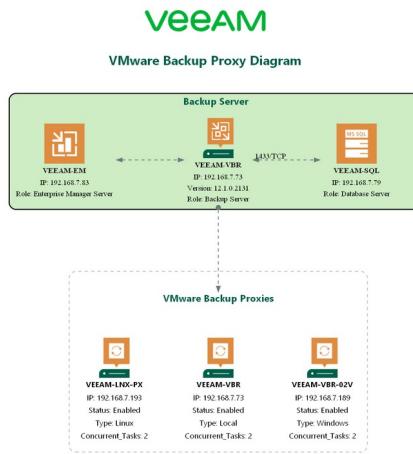


Image preview: Opens the image in a new tab to view it at full resolution.

### 1.1.10.2 Hyper-V Backup Proxies

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	Unavailable

Table 41 - Backup Proxy - VEEAM-HVPRX-01V

### 1.1.10.2.1 HyperV Backup Proxy Diagram.

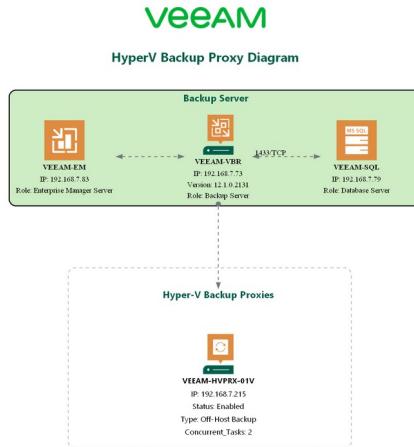


Image preview: Opens the image in a new tab to view it at full resolution.

### 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 42 - 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

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Download Stream Count	5
Enable Performance Mode	Yes
Configured Cache	No
Cache Path	E:\VeeamWAN
Max Cache Size	10 GB

Table 43 - 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
Cache Path	E:\VeeamWAN
Max Cache Size	100 GB

Table 44 - 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 45 - Wan Accelerator - VEEAM-WAN-01V.pharmax.local

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### 1.1.12 Wan Accelerator Diagram.

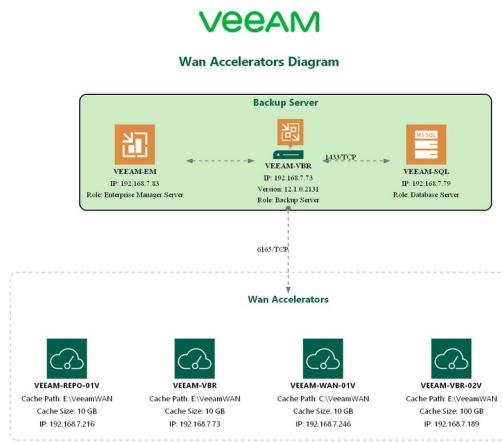


Image preview: Opens the image in a new tab to view it at full resolution.

### 1.1.13 Service Providers

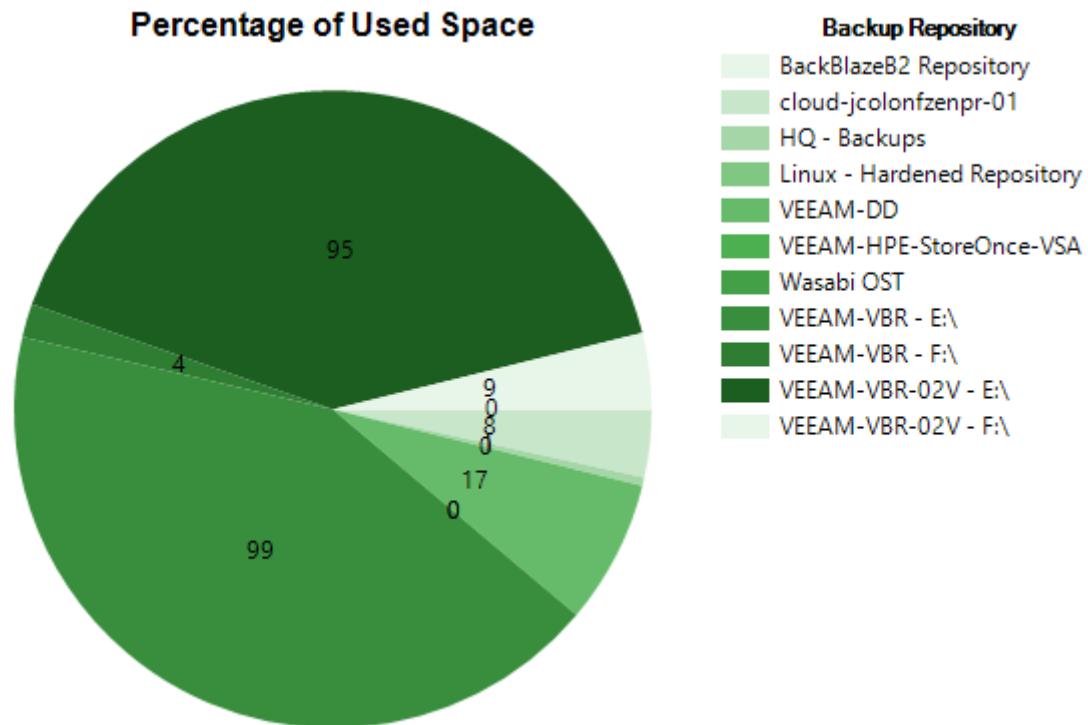
The following section provides a summary about configured Veeam Cloud Service Providers.

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

Table 46 - Service Providers - VEEAM-VBR

### 1.1.14 Backup Repository

The following section provides Backup Repository summary information.



Name	Total Space	Free Space	Used Space %	Status
BackBlazeB2 Repository	0 Gb	0 Gb	0	Available
cloud-jcolonfzenpr-01	1000 Gb	923 Gb	8	Unavailable
HQ - Backups	199 Gb	198 Gb	1	Unavailable
Linux - Hardened Repository	0 Gb	0 Gb	0	Unavailable
VEEAM-DD	351 Gb	291 Gb	17	Unavailable
VEEAM-HPE-StoreOnce-VSA	0 Gb	0 Gb	0	Unavailable
VEEAM-VBR - E:\	499 Gb	3 Gb	99	Available
VEEAM-VBR - F:\	99 Gb	95 Gb	4	Available
VEEAM-VBR-02V - E:\	99 Gb	5 Gb	95	Unavailable
VEEAM-VBR-02V - F:\	99 Gb	90 Gb	9	Unavailable
Wasabi OST	10240 Gb	10239 Gb	0	Available

Table 47 - 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

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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 48 - Backup Repository - BackBlazeB2 Repository

### cloud-jcolonfzenpr-01

Backup Proxy	uk-rep04.peasoup.net
Integration Type	Cloud
Path	\jcolonfzenpr
Connection Type	Cloud
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 49 - 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

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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 50 - Backup Repository - HQ - Backups

Linux - Hardened Repository

Backup Proxy	veeam-lnx-px.phamax.local
Integration Type	Linux
Path	/backup_data/backups
Connection Type	LinuxLocal
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 51 - Backup Repository - Linux - Hardened Repository

VEEAM-DD

Backup Proxy	VEEAM-VBR.phamax.local
Integration Type	Dell Data Domain
Path	ddboost://VEEAM-DD.phamax.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 52 - 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
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 53 - 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 54 - Backup Repository - Wasabi OST

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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
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 55 - 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 56 - 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

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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 57 - 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 58 - 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 59 - 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	backuptest
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 60 - 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	<a href="https://s3.us-east-005.backblazeb2.com">https://s3.us-east-005.backblazeb2.com</a>
Type	AmazonS3Compatible
Amazon S3 Folder	backups
Immutability Period	30
Immutability Enabled	No
Size Limit Enabled	No
Size Limit	10240
Connection Type	Direct

Table 61 - 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	<a href="https://veeam-minio.pharmax.local:9000/">https://veeam-minio.pharmax.local:9000/</a>
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.phamax.local veeam-lnx-px.phamax.local VEEAM-VBR-02V.phamax.local

Table 62 - 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.phamax.local
Azure Blob Name	Veeam
Azure Blob Container	veeam-backup

Table 63 - 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.phamax.local

Table 64 - 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 65 - 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 66 - 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.

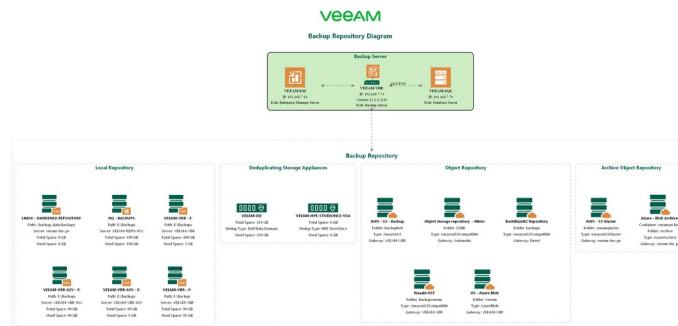


Image preview: Opens the image in a new tab to view it at full resolution.

### 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 67 - 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
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

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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 68 - 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 69 - 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 70 - Performance Tier - VEEAM-VBR-02V - E:\

**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

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Use IA Storage Class	No
Use OZ IA Storage Class	No

Table 71 - Capacity Tier - AWS - S3 - Backup

Offload Window Time Period

**Permitted \ Denied**

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 72 - Offload Window - AWS - S3 - Backup

Archive Tier

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

Table 73 - 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
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 74 - General Settings - SOBR - Azure Blob

## Veeam Backup & Replication As Built Report - v1.0

### 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 75 - 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 76 - Capacity Tier - OS - Azure Blob

### Offload Window Time Period

#### Permitted \ Denied

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 77 - 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 78 - 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 79 - General Settings - SOBR - Minio

#### Performance Tier

Name	VEEAM-VBR - E:\
Repository	VEEAM-VBR - E:\
Path	E:\Backups
Total Space	499 GB
Used Space	3 GB
Status	Normal

Table 80 - 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 81 - Capacity Tier - Object storage repository - Minio

## Veeam Backup & Replication As Built Report - v1.0

### Offload Window Time Period

#### Permitted \ Denied

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 82 - Offload Window - Object storage repository - Minio

### 1.1.19 ScaleOut Backup Repository Diagram.

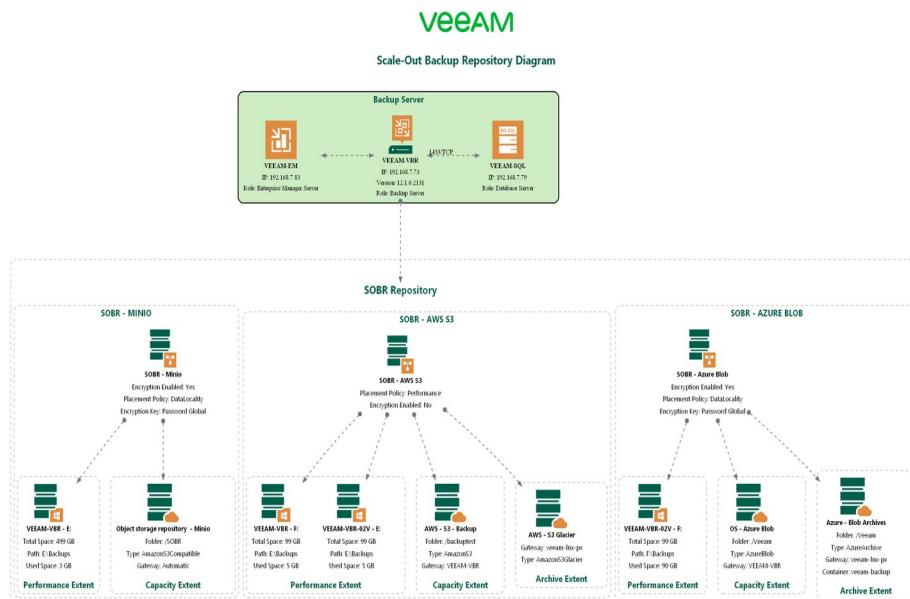


Image preview: Opens the image in a new tab to view it at full resolution.

### 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

Name	VM List
PHARMAX-AG	smallserver-01v, LINUX-VM

Table 83 - 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 84 - 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 85 - Application Group VM Settings - smallserver-01v

##### LINUX-VM

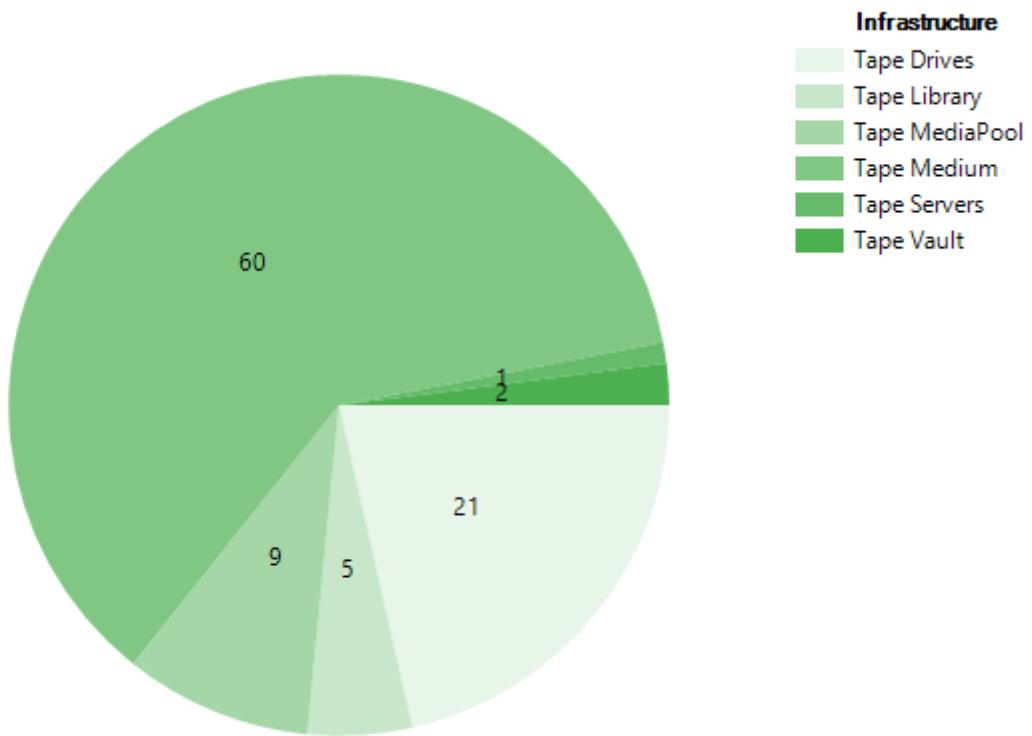
VM Name	LINUX-VM
Credentials	root
Role	DNSServer, DomainControllerAuthoritative, GlobalCatalog, MailServer, SQLServer, VBO, WebServer
Test Script	WebServer, SQLServer, DNSServer, DomainController, GlobalCatalog, MailServer, VBO
Startup Options	Allocated Memory: 100 Heartbeat Check: No Maximum Boot Time: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

Table 86 - Application Group VM Settings - LINUX-VM

## 1.2 Tape Infrastructure

The following section details Tape Infrastructure configuration information

### Tape Infrastructure



Tape Servers	1
Tape Library	5
Tape MediaPool	9
Tape Vault	2
Tape Drives	21
Tape Medium	60

Table 87 - Tape Infrastructure Inventory - VEEAM-VBR

### 1.2.1 Tape Servers

Name	Description	Status
VEEAM-VTL.pharmax.local	Created by PHARMAX\administrator at 12/25/2023 12:28 PM.	Available

Table 88 - Tape Server - VEEAM-VBR

#### Health Check:

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

## 1.2.2 Tape Libraries

The following section provides summary information about Tape Server connected Tape Library.

### 1.2.2.1 ATL P3000 6.24

Library Name	ATL P3000 6.24
Library Model	P3000
Library Type	Automated
Number of Slots	20
Connected to	VEEAM-VTL.pharmax.local
Enabled	Yes
Status	Available

Table 89 - Tape Library - ATL P3000 6.24

## Tape Drives

Name	Model	Serial Number	Medium	Enabled	Is Locked	State
/dev/sg10	QUANTUM SDLT600	45C5500103	--	Yes	No	Empty
/dev/sg8	QUANTUM SDLT600	45C5500101	--	Yes	No	Empty
/dev/sg9	QUANTUM SDLT600	45C5500102	--	Yes	No	Empty

Table 90 - Tape Drives - ATL P3000 6.24

## Tape Mediums

Name	Expiration Date	Total Space	Free Space	Locked	Retired	Worm
vbr02vS	--	320 GB	320 GB	No	No	No
vbr03vS	--	320 GB	320 GB	No	No	No
vbr04vS	--	320 GB	320 GB	No	No	No
vbr05vS	--	320 GB	320 GB	No	No	No
vbr06vS	--	320 GB	320 GB	No	No	No
vbr07vS	--	320 GB	320 GB	No	No	No
vbr08vS	--	320 GB	320 GB	No	No	No
vbr09vS	--	320 GB	320 GB	No	No	No

Table 91 - Tape Mediums - ATL P3000 6.24

### 1.2.2.2 ATL P4000 6.24

Library Name	ATL P4000 6.24
Library Model	P4000
Library Type	Automated
Number of Slots	20

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Connected to	VEEAM-VTL.pharmax.local
Enabled	Yes
Status	Available

Table 92 - Tape Library - ATL P4000 6.24

### Tape Drives

Name	Model	Serial Number	Medium	Enabled	Is Locked	State
/dev/sg25	QUANTUM SDLT600	45C5500401	--	Yes	No	Empty
/dev/sg26	QUANTUM SDLT600	45C5500402	--	Yes	No	Empty
/dev/sg27	QUANTUM SDLT600	45C5500403	--	Yes	No	Empty
/dev/sg28	QUANTUM SDLT600	45C5500404	--	Yes	No	Empty

Table 93 - Tape Drives - ATL P4000 6.24

### Tape Mediums

Name	Expiration Date	Total Space	Free Space	Locked	Retired	Worm
vbr11vS	--	320 GB	320 GB	No	No	No
vbr12vS	--	320 GB	320 GB	No	No	No
vbr13vS	--	320 GB	320 GB	No	No	No
vbr14vS	--	320 GB	320 GB	No	No	No
vbr15vS	--	320 GB	320 GB	No	No	No
vbr16vS	--	320 GB	320 GB	No	No	No
vbr17vS	--	320 GB	320 GB	No	No	No
vbr18vS	--	320 GB	320 GB	No	No	No
vbr19vS	--	320 GB	320 GB	No	No	No
vbr20vS	--	320 GB	320 GB	No	No	No

Table 94 - Tape Mediums - ATL P4000 6.24

### 1.2.2.3 ATL P7000 6.24

Library Name	ATL P7000 6.24
Library Model	P7000
Library Type	Automated
Number of Slots	20
Connected to	VEEAM-VTL.pharmax.local
Enabled	Yes
Status	Available

Table 95 - Tape Library - ATL P7000 6.24

### Tape Drives

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Name	Model	Serial Number	Medium	Enabled	Is Locked	State
/dev/sg12	IBM ULT3580-TD5	6809000813	--	Yes	No	Empty
/dev/sg13	IBM ULT3580-TD5	8610160196	--	Yes	No	Empty
/dev/sg14	IBM ULT3580-TD5	0741559482	--	Yes	No	Empty

Table 96 - Tape Drives - ATL P7000 6.24

Tape Mediums

Name	Expiration Date	Total Space	Free Space	Locked	Retired	Worm
tps01vL5	--	1 TB	1 TB	No	No	No
tps02vL5	--	1 TB	1 TB	No	No	No
tps03vL5	--	1 TB	1 TB	No	No	No
tps04vL5	--	1 TB	1 TB	No	No	No
tps05vL5	--	1 TB	1 TB	No	No	No
tps06vL5	--	1 TB	1 TB	No	No	No
tps07vL5	--	1 TB	1 TB	No	No	No
tps08vL5	--	1 TB	1 TB	No	No	No

Table 97 - Tape Mediums - ATL P7000 6.24

1.2.2.4 QUANTUM Scalar i2000 7000

Library Name	QUANTUM Scalar i2000 7000
Library Model	Scalar i2000
Library Type	Automated
Number of Slots	20
Connected to	VEEAM-VTL.phamax.local
Enabled	Yes
Status	Available

Table 98 - Tape Library - QUANTUM Scalar i2000 7000

Tape Drives

Name	Model	Serial Number	Medium	Enabled	Is Locked	State
/dev/sg16	IBM ULT3580-TD8	9848941746	--	Yes	No	Empty
/dev/sg17	IBM ULT3580-TD8	6950900071	--	Yes	No	Empty
/dev/sg18	IBM ULT3580-TD8	2773846603	--	Yes	No	Empty
/dev/sg19	IBM ULT3580-TD8	9352972755	--	Yes	No	Empty
/dev/sg20	IBM ULT3580-TD8	7825242222	--	Yes	No	Empty

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Name	Model	Serial Number	Medium	Enabled	Is Locked	State
/dev/sg21	IBM ULT3580-TD8	2508671867	--	Yes	No	Empty
/dev/sg22	IBM ULT3580-TD8	8545474151	--	Yes	No	Empty
/dev/sg23	IBM ULT3580-TD8	0410608996	--	Yes	No	Empty

Table 99 - Tape Drives - QUANTUM Scalar i2000 7000

#### Tape Mediums

Name	Expiration Date	Total Space	Free Space	Locked	Retired	Worm
tps02vL8	--	12 TB	12 TB	No	No	No
tps03vL8	--	12 TB	12 TB	No	No	No
tps04vL8	--	12 TB	12 TB	No	No	No
tps05vL8	--	12 TB	12 TB	No	No	No
tps06vL8	--	12 TB	12 TB	No	No	No
tps07vL8	--	12 TB	12 TB	No	No	No
tps08vL8	--	12 TB	12 TB	No	No	No
tps09vL8	--	12 TB	12 TB	No	No	No
tps10vL8	--	12 TB	12 TB	No	No	No
tps11vL8	--	12 TB	12 TB	No	No	No

Table 100 - Tape Mediums - QUANTUM Scalar i2000 7000

#### 1.2.2.5 QUANTUM Scalar i2000 7000

Library Name	QUANTUM Scalar i2000 7000
Library Model	Scalar i2000
Library Type	Automated
Number of Slots	20
Connected to	VEEAM-VTL.pharmax.local
Enabled	Yes
Status	Available

Table 101 - Tape Library - QUANTUM Scalar i2000 7000

#### Tape Drives

Name	Model	Serial Number	Medium	Enabled	Is Locked	State
/dev/sg4	IBM ULT3580-TD8	1260008002	--	Yes	No	Empty
/dev/sg5	IBM ULT3580-TD8	0527746823	--	Yes	No	Empty
/dev/sg6	IBM ULT3580-TD8	1657072330	--	Yes	No	Empty

Table 102 - Tape Drives - QUANTUM Scalar i2000 7000

## Tape Mediums

Name	Expiration Date	Total Space	Free Space	Locked	Retired	Worm
affe23L8	3/26/2022	12 TB	12 TB	No	No	No
affe24L8	6/4/2022	12 TB	12 TB	No	No	No
affe25L8	8/8/2023	12 TB	12 TB	No	No	No
affe26L8	3/5/2022	12 TB	12 TB	No	No	No
affe27L8	--	12 TB	12 TB	No	No	No
affe28L8	--	12 TB	12 TB	No	No	No
affe29L8	--	12 TB	12 TB	No	No	No
affe30L8	--	12 TB	12 TB	No	No	No
TEK000L8	6/30/2021	12 TB	12 TB	No	No	No
TEK001L8	7/5/2022	12 TB	12 TB	No	No	No
TEK002L8	1/3/2023	12 TB	12 TB	No	No	No
WRM232LY	12/31/9999	12 TB	12 TB	No	No	Yes
WRM233LY	--	12 TB	12 TB	No	No	Yes
WRM234LY	--	12 TB	12 TB	No	No	Yes
WRM235LY	--	12 TB	12 TB	No	No	Yes
WRM236LY	--	12 TB	12 TB	No	No	Yes
WRM237LY	12/31/9999	12 TB	12 TB	No	No	Yes
WRM238LY	12/31/9999	12 TB	12 TB	No	No	Yes
WRM239LY	12/31/9999	12 TB	12 TB	No	No	Yes
WRM240LY	12/31/9999	12 TB	12 TB	No	No	Yes
WRM241LY	12/31/9999	12 TB	12 TB	No	No	Yes

Table 103 - Tape Mediums - QUANTUM Scalar i2000 7000

## 1.2.3 Tape Media Pools

Name	Type	Tape Count	Total Space	Free Space	Tape Library
Free	Free	37	134 TB	134 TB	QUANTUM Scalar i2000 7000 ATL P7000 6.24 ATL P3000 6.24 QUANTUM Scalar i2000 7000 ATL P4000 6.24
GFS Media Pool 1	Gfs	3	70 TB	70 TB	QUANTUM Scalar i2000 7000
Imported	Imported	0	0 KB	0 KB	QUANTUM Scalar i2000 7000 ATL P7000 6.24 ATL P3000 6.24 QUANTUM Scalar i2000 7000 ATL P4000 6.24
Oracle - Media Pool	Custom	4	24 TB	24 TB	QUANTUM Scalar i2000 7000

Name	Type	Tape Count	Total Space	Free Space	Tape Library
					ATL P3000 6.24 QUANTUM Scalar i2000 7000
Retired	Retired	0	0 KB	0 KB	QUANTUM Scalar i2000 7000 ATL P7000 6.24 ATL P3000 6.24 QUANTUM Scalar i2000 7000 ATL P4000 6.24
Standard Media Pool	Custom	3	35 TB	35 TB	QUANTUM Scalar i2000 7000
Unrecognized	Unrecognized	0	0 KB	0 KB	QUANTUM Scalar i2000 7000 ATL P7000 6.24 ATL P3000 6.24 QUANTUM Scalar i2000 7000 ATL P4000 6.24
WORM GFS Media Pool 1	Gfs	0	59 TB	58 TB	QUANTUM Scalar i2000 7000
WORM Media Pool 1	Custom	5	59 TB	59 TB	QUANTUM Scalar i2000 7000

Table 104 - Tape Media Pools - VEEAM-VBR

## 1.2.4 Tape Media Pools Configuration

### 1.2.4.1 GFS Media Pool 1

#### Tape Library

Library Name	QUANTUM Scalar i2000 7000
Library Id	8e943722-c1a5-451a-9fa1-a1e5ebda79a3
Type	Automated
State	Online
Model	Scalar i2000
Drives	Drive 1, Drive 2, Drive 3
Slots	20
Tape Count	3
Total Space	70 TB
Free Space	70 TB
Add Tape from Free Media Pool Automatically when more Tape are Required	Yes
Description	
Library Mode	Active (Used Always)

Table 105 - Tape Library - GFS Media Pool 1

**Health Check:**

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

**Tape Mediums**

Name	Is Worm?	Total Space	Free Space	Tape Library
affe27L8	No	12 TB	12 TB	QUANTUM Scalar i2000 7000
affe29L8	No	12 TB	12 TB	QUANTUM Scalar i2000 7000
affe30L8	No	12 TB	12 TB	QUANTUM Scalar i2000 7000
TEK000L8	No	12 TB	12 TB	QUANTUM Scalar i2000 7000
TEK001L8	No	12 TB	12 TB	QUANTUM Scalar i2000 7000
TEK002L8	No	12 TB	12 TB	QUANTUM Scalar i2000 7000

Table 106 - Tape Mediums - QUANTUM Scalar i2000 7000

**Gfs Media Set****Daily Media Set Options**

Override Protection Period	0
Medium	TEK000L8
Media Set Name	Daily media set #%%id%% %date%
Add Tapes from Media Pool	Yes
Automatically	
Append Backup Files to Incomplete Tapes	Yes
Move All Offline Tape into the following Media Vault	Yes
Vault	DR - Tape Vault

Table 107 - Gfs Media Set - Daily Media Set Options

**Weekly Media Set Options**

Override Protection Period	4
Medium	
Media Set Name	Weekly media set #%%id%% %date%
Add Tapes from Media Pool	Yes
Automatically	
Append Backup Files to Incomplete Tapes	No

Table 108 - Gfs Media Set - Weekly Media Set Options

**Monthly Media Set Options**

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Override Protection Period	12
Medium	
Media Set Name	Monthly media set #%%id%%date%
Add Tapes from Media Pool	Yes
Automatically	
Append Backup Files to Incomplete Tapes	No

Table 109 - Gfs Media Set - Monthly Media Set Options

Quarterly Media Set Options

Override Protection Period	4
Medium	TEK001L8
Media Set Name	Quarterly media set #%%id%%date%
Add Tapes from Media Pool	No
Automatically	
Append Backup Files to Incomplete Tapes	No

Table 110 - Gfs Media Set - Quarterly Media Set Options

Yearly Media Set Options

Override Protection Period	1
Medium	TEK002L8
Media Set Name	Yearly media set #%%id%%date%
Add Tapes from Media Pool	Yes
Automatically	
Append Backup Files to Incomplete Tapes	No
Move All Offline Tape into the following Media Vault	Yes
Vault	Pharmax - Veeam Tape Vault

Table 111 - Gfs Media Set - Yearly Media Set Options

Options

Enable Parallel Processing for Tape Jobs using this Media Pool	Yes
Jobs Pointed to this Media Pool can use up to	2 Tape Drives Simultaneously
Enable Parallel Processing of Backup Chains within a Single Tape Job	Yes
Use Encryption	Yes
Encryption Password	Password Global

Table 112 - Media Set - GFS Media Pool 1

### 1.2.4.2 Oracle - Media Pool

#### Tape Library

Library Name	QUANTUM Scalar i2000 7000
Library Id	8e943722-c1a5-451a-9fa1-a1e5ebda79a3
Type	Automated
State	Online
Model	Scalar i2000
Drives	Drive 1, Drive 2, Drive 3
Slots	20
Tape Count	4
Total Space	24 TB
Free Space	24 TB
Add Tape from Free Media Pool	Yes
Automatically when more Tape are Required	
Description	
Library Mode	Active (Used Always)

Table 113 - Tape Library - Oracle - Media Pool

#### Health Check:

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

#### Tape Mediums

Name	Is Worm?	Total Space	Free Space	Tape Library
affe28L8	No	12 TB	12 TB	QUANTUM Scalar i2000 7000

Table 114 - Tape Mediums - QUANTUM Scalar i2000 7000

Library Name	ATL P3000 6.24
Library Id	50053ba6-e4b7-49fe-bebf-98fd9d58ff83
Type	Automated
State	Online
Model	P3000
Drives	Drive 1, Drive 2, Drive 3
Slots	20
Tape Count	4
Total Space	24 TB
Free Space	24 TB
Add Tape from Free Media Pool	Yes
Automatically when more Tape are Required	
Description	
Library Mode	Active (Used Always)

Table 115 - Tape Library - Oracle - Media Pool

**Health Check:**

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

**Tape Mediums**

Name	Is Worm?	Total Space	Free Space	Tape Library
vbr02vS	No	320 GB	320 GB	ATL P3000 6.24
vbr07vS	No	320 GB	320 GB	ATL P3000 6.24

Table 116 - Tape Mediums - ATL P3000 6.24

Library Name	QUANTUM Scalar i2000 7000
Library Id	9b7ed595-5922-48f3-bd80-375af07096bb
Type	Automated
State	Online
Model	Scalar i2000
Drives	Drive 1, Drive 2, Drive 3, Drive 4, Drive 5, Drive 6, Drive 7, Drive 8
Slots	20
Tape Count	4
Total Space	24 TB
Free Space	24 TB
Add Tape from Free Media Pool	Yes
Automatically when more Tape are Required	
Description	
Library Mode	Active (Used Always)

Table 117 - Tape Library - Oracle - Media Pool

**Health Check:**

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

**Media Set**

Name	Oracle Media set # %id% %date%
Automatically Create New Media Set	Daily at 12:00:00, on these days [Monday Tuesday Wednesday Thursday Friday]

Table 118 - Media Set - Oracle - Media Pool

**Retention**

Data Retention Policy	Protect Data for 1 Weeks
Offline Media Tracking	No

Table 119 - Media Set - Oracle - Media Pool

**Options**

Enable Parallel Processing for Tape	Yes
-------------------------------------	-----

Jobs using this Media Pool	
Jobs Pointed to this Media Pool can use up to	2 Tape Drives Simultaneously
Enable Parallel Processing of Backup Chains within a Single Tape Job	Yes
Use Encryption	Yes
Encryption Password	Password Global

Table 120 - Media Set - Oracle - Media Pool

#### 1.2.4.3 Standard Media Pool

##### Tape Library

Library Name	QUANTUM Scalar i2000 7000
Library Id	8e943722-c1a5-451a-9fa1-a1e5ebda79a3
Type	Automated
State	Online
Model	Scalar i2000
Drives	Drive 1, Drive 2, Drive 3
Slots	20
Tape Count	3
Total Space	35 TB
Free Space	35 TB
Add Tape from Free Media Pool Automatically when more Tape are Required	Yes
Description	
Library Mode	Active (Used Always)

Table 121 - Tape Library - Standard Media Pool

##### Health Check:

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

##### Tape Mediums

Name	Is Worm?	Total Space	Free Space	Tape Library
affe25L8	No	12 TB	12 TB	QUANTUM Scalar i2000 7000

Table 122 - Tape Mediums - QUANTUM Scalar i2000 7000

##### Media Set

Name	Standard Media set # %id% %date%
Automatically Create New Media Set	Create new Media Set for every backup session

Table 123 - Media Set - Standard Media Pool

## Retention

Data Retention Policy	Protect Data for 1 Months
Offline Media Tracking	Yes
Move all Offline Tape from this Media Pool into The following Media Vault	DR - Tape Vault

Table 124 - Media Set - Standard Media Pool

## Options

Enable Parallel Processing for Tape Jobs using this Media Pool	Yes
Jobs Pointed to this Media Pool can use up to	2 Tape Drives Simultaneously
Enable Parallel Processing of Backup Chains within a Single Tape Job	Yes
Use Encryption	No

Table 125 - Media Set - Standard Media Pool

## 1.2.4.4 WORM GFS Media Pool 1

### Tape Library

Library Name	QUANTUM Scalar i2000 7000
Library Id	8e943722-c1a5-451a-9fa1-a1e5ebda79a3
Type	Automated
State	Online
Model	Scalar i2000
Drives	Drive 1, Drive 2, Drive 3
Slots	20
Tape Count	0
Total Space	59 TB
Free Space	58 TB
Add Tape from Free Media Pool Automatically when more Tape are Required	Yes
Description	
Library Mode	Active (Used Always)

Table 126 - Tape Library - WORM GFS Media Pool 1

### Health Check:

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

### Tape Mediums

Name	Is Worm?	Total Space	Free Space	Tape Library
WRM237LY	Yes	12 TB	12 TB	QUANTUM Scalar i2000 7000

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Name	Is Worm?	Total Space	Free Space	Tape Library
WRM238LY	Yes	12 TB	12 TB	QUANTUM Scalar i2000 7000
WRM239LY	Yes	12 TB	12 TB	QUANTUM Scalar i2000 7000
WRM240LY	Yes	12 TB	12 TB	QUANTUM Scalar i2000 7000
WRM241LY	Yes	12 TB	12 TB	QUANTUM Scalar i2000 7000

Table 127 - Tape Mediums - QUANTUM Scalar i2000 7000

### Gfs Media Set

#### Daily Media Set Options

Override Protection Period	14
Medium	
Media Set Name	Daily media set #%%id% %date%
Add Tapes from Media Pool	Yes
Automatically	
Append Backup Files to Incomplete Tapes	Yes

Table 128 - Gfs Media Set - Daily Media Set Options

#### Weekly Media Set Options

Override Protection Period	4
Medium	
Media Set Name	Weekly media set #%%id% %date%
Add Tapes from Media Pool	Yes
Automatically	
Append Backup Files to Incomplete Tapes	No

Table 129 - Gfs Media Set - Weekly Media Set Options

#### Monthly Media Set Options

Override Protection Period	12
Medium	WRM241LY
Media Set Name	Monthly media set #%%id% %date%
Add Tapes from Media Pool	Yes
Automatically	
Append Backup Files to Incomplete Tapes	No

Table 130 - Gfs Media Set - Monthly Media Set Options

#### Quarterly Media Set Options

Override Protection Period	4
----------------------------	---

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Medium	WRM239LY, WRM240LY
Media Set Name	Quarterly media set #%id% %date%
Add Tapes from Media Pool Automatically	Yes
Append Backup Files to Incomplete Tapes	No

Table 131 - Gfs Media Set - Quarterly Media Set Options

Yearly Media Set Options

Override Protection Period	1
Medium	WRM237LY, WRM238LY
Media Set Name	Yearly media set #%id% %date%
Add Tapes from Media Pool Automatically	Yes
Append Backup Files to Incomplete Tapes	No

Table 132 - Gfs Media Set - Yearly Media Set Options

Options

Enable Parallel Processing for Tape Jobs using this Media Pool	Yes
Jobs Pointed to this Media Pool can use up to	2 Tape Drives Simultaneously
Enable Parallel Processing of Backup Chains within a Single Tape Job	Yes
Use Encryption	Yes
Encryption Password	Password Global

Table 133 - Media Set - WORM GFS Media Pool 1

#### 1.2.4.5 WORM Media Pool 1

Tape Library

Library Name	QUANTUM Scalar i2000 7000
Library Id	8e943722-c1a5-451a-9fa1-a1e5ebda79a3
Type	Automated
State	Online
Model	Scalar i2000
Drives	Drive 1, Drive 2, Drive 3
Slots	20
Tape Count	5
Total Space	59 TB
Free Space	59 TB
Add Tape from Free Media Pool Automatically when more Tape are Required	Yes

Description	
Library Mode	Active (Used Always)

Table 134 - Tape Library - WORM Media Pool 1

**Health Check:**

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

**Tape Mediums**

Name	Is Worm?	Total Space	Free Space	Tape Library
WRM232LY	Yes	12 TB	12 TB	QUANTUM Scalar i2000 7000
WRM233LY	Yes	12 TB	12 TB	QUANTUM Scalar i2000 7000
WRM234LY	Yes	12 TB	12 TB	QUANTUM Scalar i2000 7000
WRM235LY	Yes	12 TB	12 TB	QUANTUM Scalar i2000 7000
WRM236LY	Yes	12 TB	12 TB	QUANTUM Scalar i2000 7000

Table 135 - Tape Mediums - QUANTUM Scalar i2000 7000

**Media Set**

Name	WORM media set # %id% %date%
Automatically Create New Media Set	Do not Create, Always continue using current Media Set

Table 136 - Media Set - WORM Media Pool 1

**Retention**

Data Retention Policy	Never Overwrite Data
Offline Media Tracking	Yes
Move all Offline Tape from this Media Pool into The following Media Vault	DR - Tape Vault

Table 137 - Media Set - WORM Media Pool 1

**Options**

Enable Parallel Processing for Tape Jobs using this Media Pool	Yes
Jobs Pointed to this Media Pool can use up to	2 Tape Drives Simultaneously
Enable Parallel Processing of Backup Chains within a Single Tape Job	Yes
Use Encryption	Yes
Encryption Password	Password Global

Table 138 - Media Set - WORM Media Pool 1

### 1.2.5 Tape Vaults

Name	Description	Automatic Protect	Location
DR - Tape Vault	Created by PHARMAX\jocolon at 1/4/2022 11:10 PM.	No	--
Pharmax - Veeam Tape Vault	Pharmax - HQ Tape Vault	Yes	--

Table 139 - Tape Vault - VEEAM-VBR

#### Health Check:

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

### 1.2.6 NDMP Servers

Name	Credentials	Port	Gateway
NTAP-HQ-01V.pharmax.local		0	Automatic
192.168.11.17		0	Automatic
ntapv-01.pharmax.local		0	Automatic
ONTAP-HQ-SAN-IC.pharmax.local		0	Automatic

Table 140 - NDMP Servers - VEEAM-VBR

### 1.2.7 Tape Infrastructure Diagram.

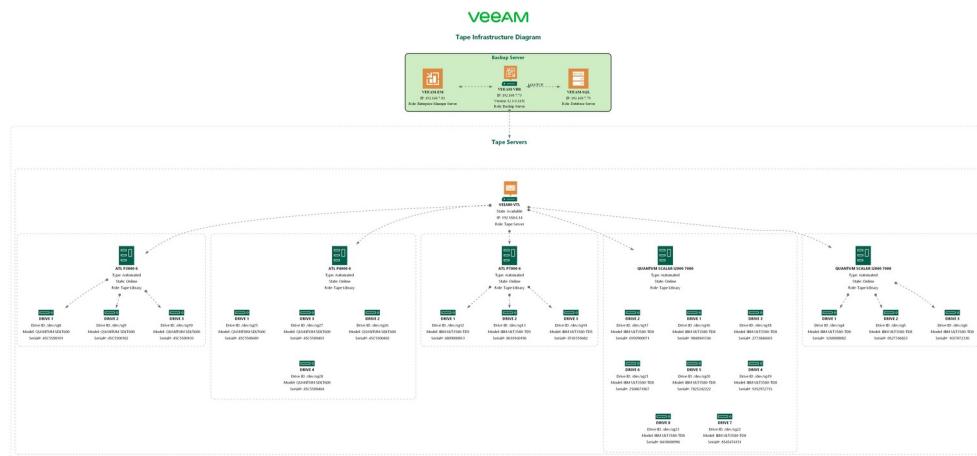
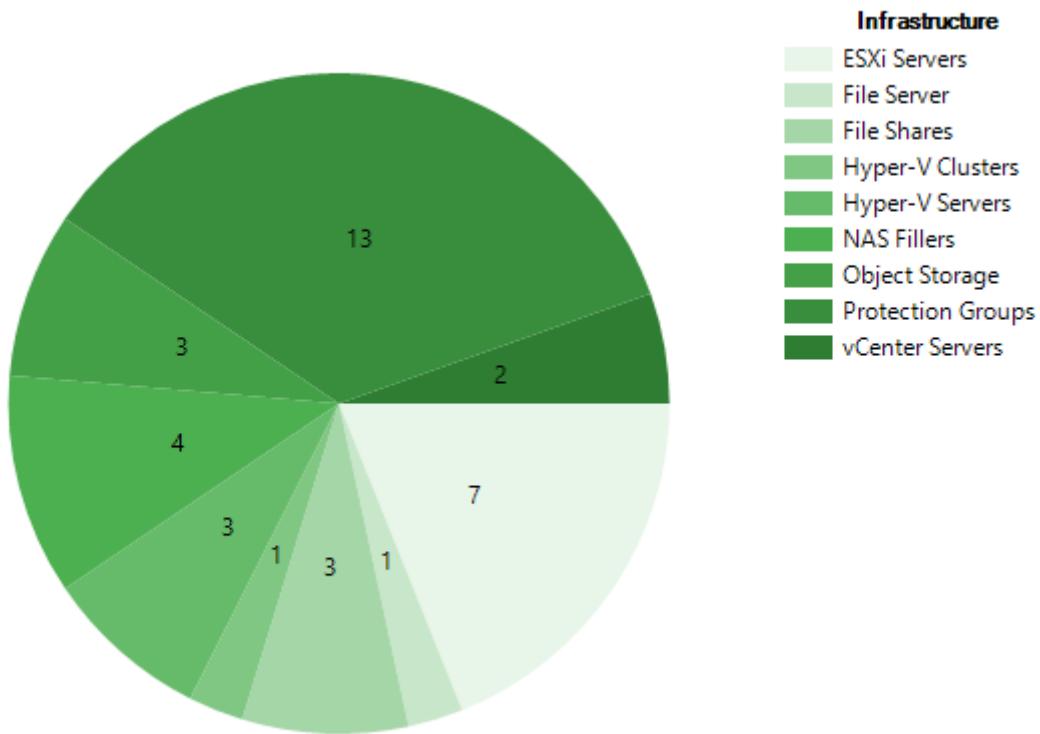


Image preview: Opens the image in a new tab to view it at full resolution.

## 1.3 Inventory

The following section provides inventory information about the Virtual Infrastructure managed by Veeam Server veeam-vbr.pharmax.local.

### Inventory



Infrastructure Component	Count
vCenter Servers	1
ESXi Servers	7
Hyper-V Clusters	2
Hyper-V Servers	13
Protection Groups	3
File Server	1
NAS Fillers	4
File Shares	3
Object Storage	1

2
7
1
3
13
1
4
3
1

Table 141 - Inventory Summary - VEEAM-VBR

### 1.3.1 Virtual Infrastructure

The following sections detail the configuration about managed virtual servers backed-up by Veeam Server veeam-vbr.pharmax.local.

#### 1.3.1.1 VMware vSphere

The following section details information about VMware Virtual Infrastructure backed-up by Veeam Server veeam-vbr.pharmax.local.

#### VMware vCenter

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Name	Version	Child Host
192.168.5.2	VMware vCenter Server 8.0.2 build-22617221	192.168.7.124, comp-01a.pharmax.local, esxsvr-00f.pharmax.local
vcenter-01v.pharmax.local	VMware vCenter Server 8.0.2 build-22617221	esxsvr-00f.pharmax.local, comp-01a.pharmax.local, 192.168.7.124

Table 142 - vCenter Servers - VEEAM-VBR

### Esxi Host

Name	Version
192.168.7.124	VMware ESXi 7.0.3 build-20036589
192.168.7.124	VMware ESXi 7.0.3 build-20036589
comp-01a.pharmax.local	VMware ESXi 7.0.3 build-20328353
comp-01a.pharmax.local	VMware ESXi 7.0.3 build-20328353
disaster-01a.pharmax.local	VMware ESXi 7.0.3 build-20036589
esxsvr-00f.pharmax.local	VMware ESXi 8.0.2 build-22380479
esxsvr-00f.pharmax.local	VMware ESXi 8.0.2 build-22380479

Table 143 - Esxi Hosts - VEEAM-VBR

### 1.3.1.2 Microsoft Hyper-V

#### Hyper-V Clusters

Name	Credentials	Child Host
pharmax-cluster.pharmax.local	administrator@pharmax.local	VEEAM-HV-02, VEEAM-HV-01

Table 144 - Hyper-V Clusters - VEEAM-VBR

#### Hyper-V Host

Name	Version
VEEAM-HV-01	Microsoft Windows Server 2022 Datacenter Evaluation 64-bit (10.0.20348 build:20348)
VEEAM-HV-02	Microsoft Windows Server 2022 Datacenter Evaluation 64-bit (10.0.20348 build:20348)
VEEAM-HV-03.pharmax.local	Microsoft Windows Server 2022 Datacenter Evaluation 64-bit (10.0.20348 build:20348)

Table 145 - Hyper-V Hosts - VEEAM-VBR

### 1.3.2 Physical Infrastructure

The following sections detail configuration information about managed physical infrastructure.

### 1.3.2.1 Protection Groups Summary

Name	Type	Container	Schedule	Enabled
AD PG Test	Custom	ActiveDirectory	Daily	Yes
AD PG Test UIA	Custom	ActiveDirectory	Daily	Yes
Gurabo PC - Backup	Custom	ActiveDirectory	Periodically	Yes
HQ - Manual Packet	Custom	ManuallyDeployed	Daily	Yes
Individual Test 01	Custom	IndividualComputers	Daily	Yes
Linux Protection Group	Custom	IndividualComputers	Daily	Yes
Manually Added	ManuallyAdded	IndividualComputers	Daily	Yes
Others	Custom	ManuallyDeployed	Daily	Yes
Protection Group 1	Custom	C:\Users\administrator\Desktop\machines.csv	Periodically	Yes
Protection Group 2	Custom	ManuallyDeployed	Daily	Yes
Protection Group 3	Custom	C:\Users\administrator\Desktop\machines - Copy.csv	Daily	Yes
Protection Group 4	Custom	C:\Users\administrator\Desktop\machines.csv	Daily	Yes
Server with Netapp LUNS	Custom	ActiveDirectory	Daily	Yes

Table 146 - Protection Groups - VEEAM-VBR

#### 1.3.2.1.1 Protection Group Configuration

##### AD PG Test

Domain	acad.phamax.local
Backup Objects	Name: SCCM Computers Type: OrganizationUnit Distinguished Name: OU=SCCM Computers,OU=Acad Computers,DC=acad,DC=phamax,DC=local
Exclude VM	No
Exclude Computers	No
Exclude Offline Computers	Yes
Excluded Entity	
Master Credentials	administrator@phamax.local
Deployment Options	Install Agent: Yes Upgrade Automatically: No Install Driver: No Reboot If Required: No
Notification Options	Send Time: 22:00:00

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	Additional Address: [rebelinux@test.com] Use Notification Options: No Subject: [%JobResult%] %PGName%: (%FoundCount% new hosts found (%TotalCount% total, %SeenCount% seen))
--	--

Table 147 - Protection Group Configuration - AD PG Test

AD PG Test UIA

Domain	uia.local
Backup Objects	Name: Grouper-Groups Type: OrganizationUnit Distinguished Name: OU=Grouper-Groups,DC=uia,DC=local
Exclude VM	No
Exclude Computers	No
Exclude Offline Computers	Yes
Excluded Entity	
Master Credentials	administrator@pharmax.local
Deployment Options	Install Agent: Yes Upgrade Automatically: Yes Install Driver: No Reboot If Required: No

Table 148 - Protection Group Configuration - AD PG Test UIA

Gurabo PC - Backup

Domain	pharmax.local
Backup Objects	Name: VDI-Computers Type: OrganizationUnit Distinguished Name: OU=VDI-Computers,DC=pharmax,DC=local
	Name: VEEAM WorkStations Type: OrganizationUnit Distinguished Name: OU=VEEAM WorkStations,DC=pharmax,DC=local
Exclude VM	No
Exclude Computers	No
Exclude Offline Computers	Yes
Excluded Entity	
Master Credentials	administrator@pharmax.local
Deployment Options	Install Agent: Yes Upgrade Automatically: Yes Install Driver: No Reboot If Required: No
Notification Options	Send Time: 08:00:00 Additional Address: [veeam_admin@pharmax.local] Use Notification Options: No

Veeam Backup & Replication As Built Report - v1.0

	Subject: [%JobResult%] %PGName%: (%FoundCount% new hosts found (%TotalCount% total, %SeenCount% seen)
--	---

Table 149 - Protection Group Configuration - Gurabo PC - Backup

Manually Added

Deployment Options	Install Agent: Yes Upgrade Automatically: Yes Install Driver: No Reboot If Required: No
Notification Options	Send Time: 10:00:00 Additional Address: [jcolonf@zenprsolutions.com, rebelinux@gmail.com] Use Notification Options: No Subject: [%JobResult%] %JobName% (%ObjectCount% machines) %Issues%

Table 150 - Protection Group Configuration - Manually Added

Server with Netapp LUNS

Domain	pharmax.local
Backup Objects	Name: NTAPSVR-01v.pharmax.local Type: Computer Distinguished Name: CN=NTAPSVR-01V,OU=Member Servers,DC=pharmax,DC=local
Exclude VM	No
Exclude Computers	No
Exclude Offline Computers	Yes
Excluded Entity	
Master Credentials	administrator@pharmax.local
Deployment Options	Install Agent: Yes Upgrade Automatically: Yes Install Driver: Yes Reboot If Required: Yes

Table 151 - Protection Group Configuration - Server with Netapp LUNS

## Veeam Backup & Replication As Built Report - v1.0

### 1.3.3 Physical Infrastructure Diagram.

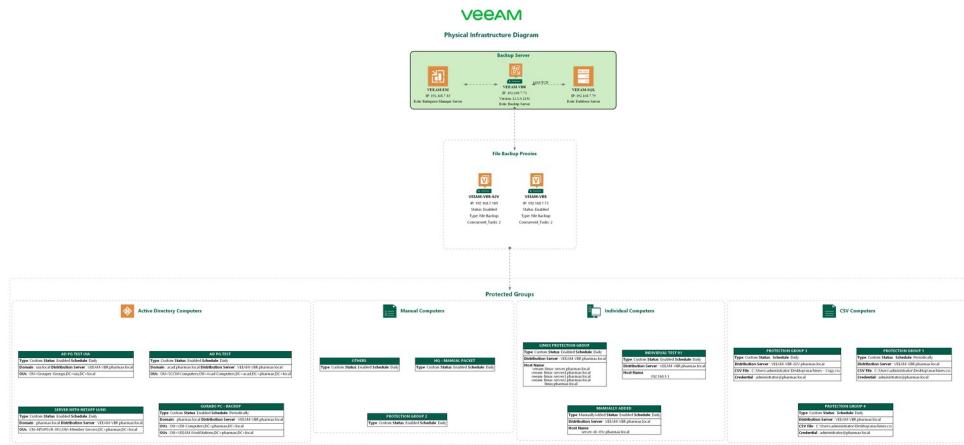


Image preview: Opens the image in a new tab to view it at full resolution.

### 1.3.4 Unstructured Data

The following table provides a summary about the unstructured data backed-up by Veeam Server veeam-vbr.pharmax.local.

#### 1.3.4.1 File Servers

Name	Backup IO Control	Credentials	Cache Repository
server-dc-01v	Medium	administrator@pharmax.local	Linux - Hardened Repository

Table 152 - File Servers - VEEAM-VBR

#### 1.3.4.2 NAS Fillers

Path	Type	Backup IO Control	Credentials	Cache Repository
\192.168.5.18\c\$	NAS Filler	Medium	admin	Linux - Hardened Repository
\192.168.5.18\DATA	NAS Filler	Medium	admin	Linux - Hardened Repository
\192.168.5.18\ipc\$	NAS Filler	Medium	admin	Linux - Hardened Repository
\192.168.7.90\data	NAS Filler	Highest	admin	Linux - Hardened Repository

Table 153 - NAS Fillers - VEEAM-VBR

#### 1.3.4.3 File Shares

Path	Type	Backup IO Control	Credentials	Cache Repository
\\\isilon_nas.pharmax.local\DATA	SMB Share	Low	administrator@pharmax.local	Linux - Hardened Repository
\\\server-dc-01\UEMConfig	SMB Share	Medium	administrator@pharmax.local	Linux - Hardened Repository
192.168.5.18:/oracle	NFS Share	Low	None	Linux - Hardened Repository

Table 154 - File Shares - VEEAM-VBR

#### 1.3.4.4 Object Storage

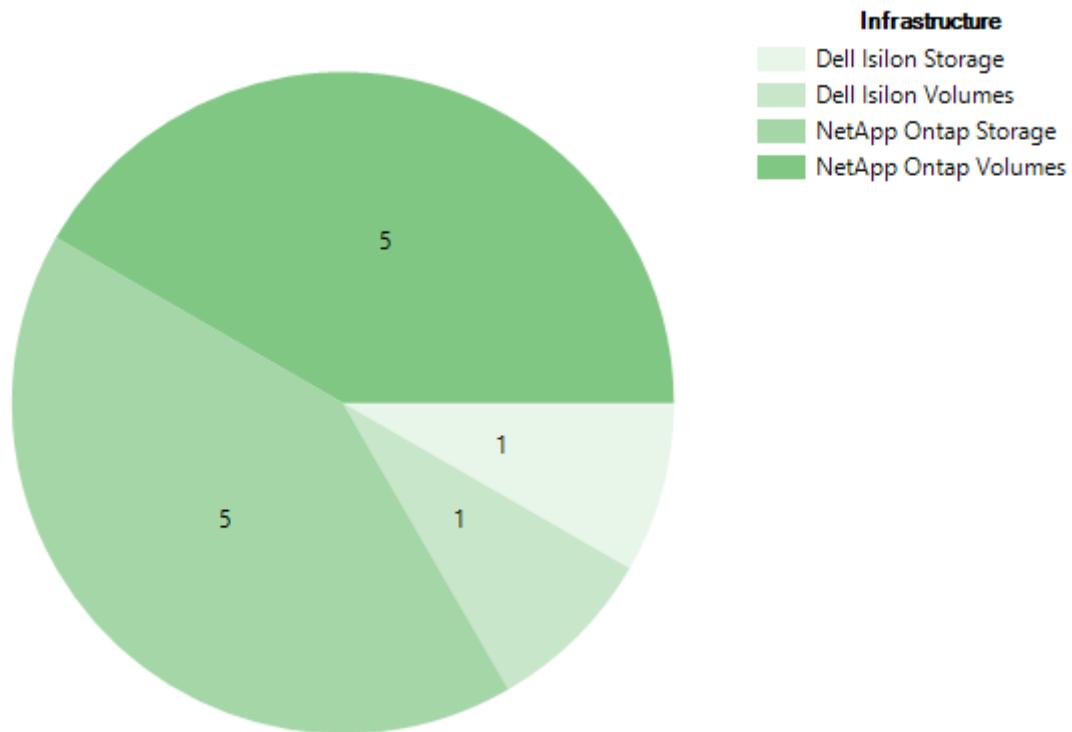
Name	Region	Account	Backup IO Control	Cache Repository
AWSS3	Global - US East (N. Virginia)	AKIAVLS2CFPN2HT4QIXH	Medium	HQ - Backups
AZUREBlob	Azure Global (Standard)	pharmaxveeambacup	Medium	HQ - Backups
OBJStorage	--	minioadmin	Medium	HQ - Backups

Table 155 - Object Storage - VEEAM-VBR

## 1.4 Storage Infrastructure

The following section provides information about the storage infrastructure managed by Veeam Server veeam-vbr.pharmax.local.

### Storage Infrastructure Inventory



NetApp Ontap Storage	5
NetApp Ontap Volumes	5
Dell Isilon Storage	1
Dell Isilon Volumes	1

Table 156 - Storage Infrastructure Inventory - VEEAM-VBR

### 1.4.1 NetApp Ontap Storage

The following section details information about NetApp storage infrastructure.

#### 1.4.1.1 ONTAP-DR-SAN

DNS Name	ONTAP-DR-SAN.pharmax.local
Description	Created by PHARMAX\jocolon at 1/9/2022 7:40 PM.
Storage Type	NaCluster
Used Credential	admin - (ONTAP-HQ-SAN)
Connection Address	ONTAP-DR-SAN-01V.pharmax.local, 10.10.30.17, 10.10.30.16
Connection Port	443\TCP
Installed Licenses	FlexClone, SnapRestore, Iscsi, Nfs, SnapVaultPrimary, SnapVaultSecondary, SnapMirror, Cifs

Table 157 - NetApp Host - ONTAP-DR-SAN

## Volumes

Name	Total Space	Used Space	Thin Provision
SAN_DR_root	973 MB	664 KB	No
SRM_EDGE_PLACEHOLDER_01	10 GB	85 MB	Yes
SRM_EDGE_STORAGE_01	50 GB	4 GB	Yes
SRM_LAB_STORAGE_DR_01	50 GB	956 MB	Yes
SRM_PLACEHOLDER_01	10 GB	341 MB	Yes
vol_SRM_HQ_EDGE_01_dest	833 MB	669 MB	Yes
vol_SRM_LAB_STORAGE_01_dest	40 GB	32 GB	Yes
vol_SRM_LAB_STORAGE_02_dest	31 GB	848 MB	Yes
vol_SRM_POL_DEDUP_01_dest	30 GB	26 GB	Yes

Table 158 - NetApp Volumes - ONTAP-DR-SAN

### 1.4.1.2 ONTAP-HQ-SAN

DNS Name	ONTAP-HQ-SAN.pharmax.local
Description	Created by PHARMAX\jocolon at 12/23/2021 9:12 PM.
Storage Type	NaCluster
Used Credential	admin - (ONTAP-HQ-SAN)
Connection Address	192.168.5.16, 192.168.5.17
Connection Port	443\TCP
Installed Licenses	FlexClone, SnapRestore, Iscsi, Nfs, SnapVaultPrimary, SnapVaultSecondary, SnapMirror, Cifs

Table 159 - NetApp Host - ONTAP-HQ-SAN

## Volumes

Name	Total Space	Used Space	Thin Provision
DATA	10 GB	2 GB	No
HYPERVER_QUORUM_STORAGE	15 GB	109 MB	No
HYPERVER_VM_STORAGE	50 GB	123 MB	No
NAS_VEEAM_root	973 MB	4 MB	No
oracle	10 GB	4 MB	No
SAN_HQ_root	973 MB	4 MB	No

Table 160 - NetApp Volumes - ONTAP-HQ-SAN

### 1.4.1.3 VEEAM-NTAP-CLUSTER

DNS Name	VEEAM-NTAP-CLUSTER.pharmax.local
Description	Created by PHARMAX\administrator at 5/5/2022 12:54 PM.
Storage Type	NaCluster
Used Credential	admin - (admin netapp)
Connection Address	VEEAM-NTAP-CLUSTER, 192.168.5.131, 192.168.5.130
Connection Port	443\TCP

Installed Licenses	FlexClone, SnapRestore, Iscsi, Nfs, SnapVaultPrimary, SnapVaultSecondary, SnapMirror, Cifs
--------------------	--

Table 161 - NetApp Host - VEEAM-NTAP-CLUSTER

#### 1.4.1.4 PHARMAX-DR

DNS Name	pharmax-dr.pharmax.local
Description	Created by PHARMAX\administrator at 6/29/2021 7:48 PM.
Storage Type	NaCluster
Used Credential	admin - (admin netapp)
Connection Address	pharmax-dr.pharmax.local, 10.10.33.14, 10.10.33.15, 10.10.33.16
Connection Port	443\TCP
Installed Licenses	FlexClone, SnapRestore, Fcp, Iscsi, Nfs, SnapVaultPrimary, SnapVaultSecondary, SnapMirror, Cifs

Table 162 - NetApp Host - PHARMAX-DR

#### Volumes

Name	Total Space	Used Space	Thin Provision
DP_Server_Home	15 GB	42 MB	Yes
NAS_DR_root	19 MB	1 MB	No
Oracle_Data_Volumes_dest	5 GB	2 GB	Yes
Oracle_Data_Volumes_dest_clone_36	5 GB	2 GB	Yes
SAN_DR_root	19 MB	1 MB	No
SERVER_DATASTORE_DR	50 GB	288 MB	Yes
SnapLock_COM	10 GB	552 KB	No
SnapLock_ENT	10 GB	552 KB	No
SRM_PlaceHolder_DR	10 GB	31 MB	Yes
vol_NTAPSOL_LUN_1_dest	192 MB	16 MB	Yes
vol_NTAPSOL_LUN_1_dest_clone_807	192 MB	16 MB	Yes
vol_SERVER_DATASTORE_2_dest	122 MB	404 KB	Yes
vol_SERVER_DATASTORE_dest	15 GB	8 GB	Yes
VVOL_REPLICATION_MIRROR	122 MB	364 KB	Yes

Table 163 - NetApp Volumes - PHARMAX-DR

#### 1.4.1.5 PHARMAX-HQ

DNS Name	pharmax-hq.pharmax.local
Description	Created by PHARMAX\administrator at 6/29/2021 12:10 PM.
Storage Type	NaCluster
Used Credential	admin - (admin netapp)
Connection Address	pharmax-hq.pharmax.local, 192.168.7.61, 192.168.7.62, 192.168.7.60

Connection Port	443\TCP
Installed Licenses	FlexClone, SnapRestore, Fcp, Iscsi, Nfs, SnapVaultPrimary, SnapVaultSecondary, SnapMirror, Cifs

Table 164 - NetApp Host - PHARMAX-HQ

## Volumes

Name	Total Space	Used Space	Thin Provision
ESX_RDM_TEST	48 GB	89 MB	Yes
HYPERV_CLUSTER_QUORUM	10 GB	5 MB	Yes
HYPERV_LOG_DATASTORE	50 GB	8 GB	Yes
HYPERV_VM_DATASTORE	50 GB	9 GB	Yes
SAN_root	19 MB	996 KB	No
SERVER_DATASTORE	50 GB	5 GB	Yes
SERVER_DATASTORE_DR_dest	300 MB	231 MB	Yes
SQL_SERVER_01_V	80 GB	109 MB	Yes

Table 165 - NetApp Volumes - PHARMAX-HQ

## 1.4.2 Dell Isilon Storage

The following section details information about Dell storage infrastructure.

### 1.4.2.1 PHARMAX-ISILON

DNS Name	isilon_nas.pharmax.local
Description	Created by PHARMAX\jocolon at 1/16/2022 12:33 PM.
Used Credential	admin - (Isilon Account)
Connection Address	192.168.7.90
Connection Port	8080\TCP

Table 166 - Isilon Host - PHARMAX-ISILON

## Volumes

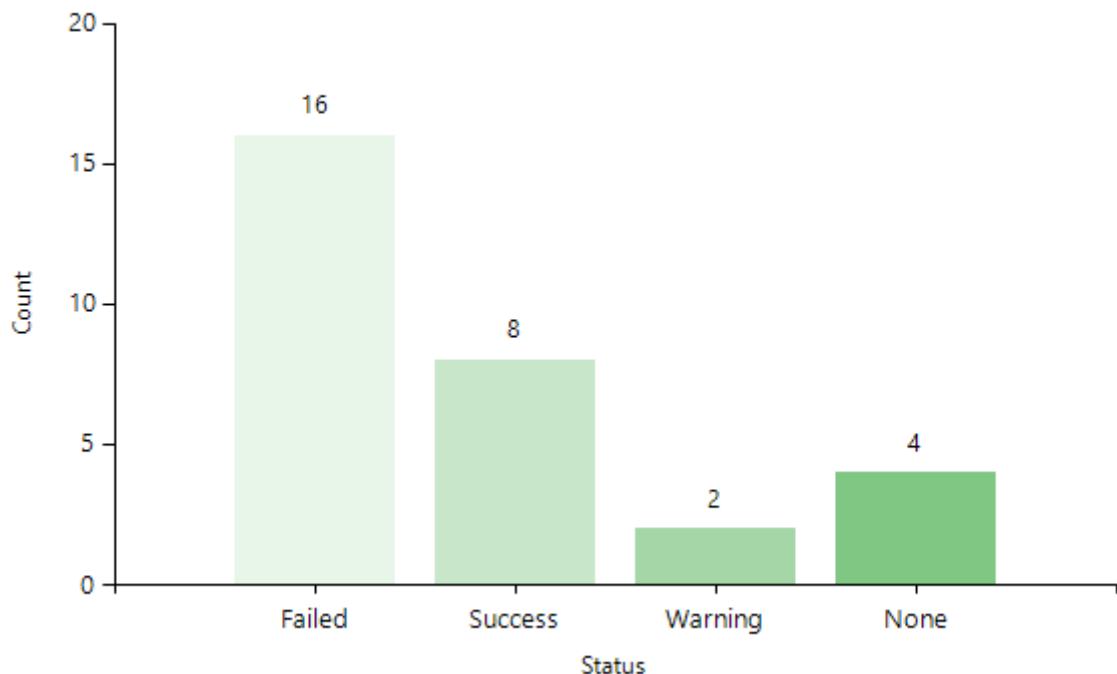
Name	Total Space	Used Space	Thin Provision
DATA	0 KB	0 KB	No

Table 167 - Isilon Volumes - PHARMAX-ISILON

## 1.5 Jobs Summary

The following section provides information about the configured jobs in Veeam Server: veeam-vbr.pharmax.local.

### Jobs Latest Result



#### 1.5.1 Backup Jobs

The following section list backup jobs created in Veeam Backup & Replication.

Name	Type	Status	Latest Result	Scheduled?
Agent Backup Policy 2	Linux Agent Policy	Enabled	Failed	Yes
Backup - Replicated VM - Cloud Virtualdcs	VMware Backup	Enabled	Success	Yes
Backup Copy Job 1	Backup Copy	Enabled	Warning	Yes
Backup Copy Job 4	Backup Copy	Enabled	Failed	Yes
Backup Copy Job 5	Backup Copy	Enabled	Failed	Yes
Backup Job 8	VMware Backup	Enabled	Warning	Yes
COMP-CLUSTER-NFS	VMware Backup	Enabled	Failed	Yes
File Backup Job 1	File Backup	Enabled	Failed	Yes
File Backup Job 1 (Copy) 1	Backup Copy	Enabled	Failed	Yes
Gurabo PC - Backup Job	Windows Agent Policy	Enabled	None	Yes
HPE-StoreOnce-Copy-Job	Backup Copy	Enabled	Success	Yes
Hyper-V-Backup-Copy	Backup Copy	Disabled	Failed	No
HyperV-Backup-Job	Hyper-V Backup	Enabled	Failed	Yes
Linux Agent Backup Job	Linux Agent Backup	Enabled	Failed	Yes
Object Storage Backup Job 1	Object Storage Backup	Enabled	None	Yes

Name	Type	Status	Latest Result	Scheduled?
Object Storage Backup Job 1 (Copy) 1	Backup Copy	Enabled	None	Yes
PHARMAX-HQ-SVR	VMware Backup	Disabled	None	No
Server - Share Backup	File Backup	Enabled	Failed	Yes
SOBR - TEST	VMware Backup	Enabled	Failed	Yes
VM - Test - AWS	VMware Backup	Enabled	Failed	Yes
VM Copy Job 1	VM Copy	Disabled	Failed	No
WIN HyperV VM Backup	Hyper-V Backup	Enabled	Failed	Yes

Table 168 - Backup Jobs - VEEAM-VBR

### 1.5.2 VMware Backup Jobs Configuration

The following section details the configuration of VMware type backup jobs.

Name	Creation Time	VM Count
Backup - Replicated VM - Cloud Virtualdcs	06/27/2022 16:57:50	3
Backup Job 8	01/15/2024 12:05:24	1
COMP-CLUSTER-NFS	06/02/2021 20:31:27	1
PHARMAX-HQ-SVR	06/29/2021 12:15:23	1
Servers Backup Daily	12/15/2019 19:25:18	0
SOBR - TEST	02/27/2021 21:07:32	10
SQL Server Backup	12/15/2019 20:46:10	0
VEEAM-SP Server Backup	12/15/2019 23:22:23	0
VM - Test - AWS	12/20/2021 12:57:43	1

Table 169 - VMware Backup Summary - VEEAM-VBR

#### 1.5.2.1 Backup - Replicated VM - Cloud Virtualdcs

##### Common Information

Name	Backup - Replicated VM - Cloud Virtualdcs
Type	VMware Backup
Total Backup Size	5 GB
Target Address	/backup_data/backups
Target File	Backup - Replicated VM - Cloud Virtualdcs
Description	Created by PHARMAX\administrator at 6/27/2022 4:56 PM.
Modified By	PHARMAX\administrator

Table 170 - Common Information - Backup - Replicated VM - Cloud Virtualdcs

##### Health Check:

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

##### Virtual Machines

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Name	Resource Type	Role	Approx Size	Disk Filter Mode
csr-mapserver	Virtual Machine	Include	1.5 GB	AllDisks
csr-pharmax-dr	Virtual Machine	Include	1.5 GB	AllDisks
csr-pharmax-hq	Virtual Machine	Include	1.5 GB	AllDisks
LAB-FOC-01V	Virtual Machine	Exclude	0 B	AllDisks

Table 171 - Virtual Machines - Backup - Replicated VM - Cloud Virtualdcs

### Storage

Backup Proxy	veeam-lnx-px.pharmax.local
Backup Repository	Linux - Hardened Repository
Retention Type	Days
Retain Days To Keep	7
Keep First Full Backup	No
Enable Full Backup	No
Integrity Checks	Yes
Storage Encryption	No
Backup Mode	Incremental
Active Full Backup Schedule Kind	Daily
Active Full Backup Days	Saturday
Transform Full To Synthetic	Yes
Transform Increments To Synthetic	No
Transform To Synthetic Days	Saturday

Table 172 - Storage Options - Backup - Replicated VM - Cloud Virtualdcs

### Advanced Settings (Maintenance)

Storage-Level Corruption Guard (SLCG)	Yes
SLCG Schedule Type	Monthly
SLCG Schedule Day	Friday
SLCG Backup Monthly Schedule	Day Of Week: Friday Day Number In Month: Last Day of Month: 1 Months: January February March April May June July August September October November December
Defragment and Compact Full Backup (DCFB)	No
DCFB Schedule Type	Monthly
DCFB Schedule Day	Saturday
DCFB Backup Monthly Schedule	Day Of Week: Saturday Day Number In Month: Last Day of Month: 1 Months: January February March April May June July August September October November December
Remove deleted item data after	14

Table 173 - Advanced Settings (Maintenance) - Backup - Replicated VM - Cloud Virtualdcs

### Advanced Settings (Storage)

Inline Data Deduplication	Yes
Exclude Swap Files Block	Yes
Exclude Deleted Files Block	Yes
Compression Level	OPTIMAL (Default)
Storage optimization	Local target
Enabled Backup File Encryption	No
Encryption Key	None

Table 174 - Advanced Settings (Storage) - Backup - Replicated VM - Cloud Virtualdcs

### Health Check:

**Best Practice:** Backup and replica data is a high potential source of vulnerability. To secure data stored in backups and replicas, use Veeam Backup & Replication inbuilt encryption to protect data in backups

### Advanced Settings (vSphere)

Enable VMware Tools Quiescence	No
Use Change Block Tracking	Yes
Enable CBT for all protected VMs	Yes
Reset CBT On each Active Full Backup	Yes

Table 175 - Advanced Settings (vSphere) - Backup - Replicated VM - Cloud Virtualdcs

### Advanced Settings (Integration)

Enable Backup from Storage Snapshots	Yes
Limit processed VM count per Storage Snapshot	No
VM count per Storage Snapshot	10
Failover to Standard Backup	No
Failover to Primary Storage Snapshot	No

Table 176 - Advanced Settings (Integration) - Backup - Replicated VM - Cloud Virtualdcs

### Schedule

Retry Failed item	3
Wait before each retry	10/min
Backup Window	No
Schedule type	Daily
Schedule Options	Kind: Everyday, Days: Sunday Monday Tuesday Wednesday Thursday Friday Saturday
Start Time	10:00 PM
Latest Run	01/01/0001 00:00:00

Table 177 - Schedule Options - Backup - Replicated VM - Cloud Virtualdcs

### 1.5.2.2 Backup Job 8

#### Common Information

Name	Backup Job 8
Type	VMware Backup
Total Backup Size	26 MB
Target Address	
Target File	Backup Job 8
Description	Created by PHARMAX\administrator at 1/15/2024 12:02 PM.
Modified By	PHARMAX\administrator

Table 178 - Common Information - Backup Job 8

#### Health Check:

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

#### Virtual Machines

Name	Resource Type	Role	Approx Size	Disk Filter Mode
VEEAM-VM-TINY	Virtual Machine	Include	26 MB	AllDisks
LAB-FOC-01V	Virtual Machine	Exclude	0 B	AllDisks

Table 179 - Virtual Machines - Backup Job 8

#### Storage

Backup Proxy	VMware Backup Proxy
Backup Repository	Wasabi OST
Retention Type	Days
Retain Days To Keep	7
Keep First Full Backup	No
Enable Full Backup	Yes
Integrity Checks	Yes
Storage Encryption	Yes
Backup Mode	Incremental
Active Full Backup Schedule Kind	Daily
Active Full Backup Days	Saturday
Transform Full To Synthetic	No
Transform Increments To Synthetic	No
Transform To Synthetic Days	Saturday
Keep certain full backup longer for archival purposes (GFS)	Yes
Keep Weekly full backup for	1 weeks, If multiple backup exist use the one from: Sunday
Keep Monthly full backup for	1 months, Use weekly full backup from the following week of the month: First

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Keep Yearly full backup for	1 years, Use monthly full backup from the following month: January
-----------------------------	---

Table 180 - Storage Options - Backup Job 8

Advanced Settings (Maintenance)

Storage-Level Corruption Guard (SLCG)	Yes
SLCG Schedule Type	Monthly
SLCG Schedule Day	Saturday
SLCG Backup Monthly Schedule	Day Of Week: Saturday Day Number In Month: Last Day of Month: 1 Months: January February March April May June July August September October November December
Defragment and Compact Full Backup (DCFB)	No
DCFB Schedule Type	Monthly
DCFB Schedule Day	Saturday
DCFB Backup Monthly Schedule	Day Of Week: Saturday Day Number In Month: Last Day of Month: 1 Months: January February March April May June July August September October November December
Remove deleted item data after	14

Table 181 - Advanced Settings (Maintenance) - Backup Job 8

Advanced Settings (Storage)

Inline Data Deduplication	Yes
Exclude Swap Files Block	Yes
Exclude Deleted Files Block	Yes
Compression Level	OPTIMAL (Default)
Storage optimization	Local target
Enabled Backup File Encryption	Yes
Encryption Key	Password Global

Table 182 - Advanced Settings (Storage) - Backup Job 8

Advanced Settings (Notification)

Send Snmp Notification	Yes
Send Email Notification	Yes
Email Notification Additional Addresses	rebelinux@test.com
Email Notify Time	10:00 PM
Use Custom Email Notification Options	Yes
Use Custom Notification Setting	[%JobResult%] %JobName% (%ObjectCount% objects) %Issues%
Notify On Success	Yes
Notify On Warning	Yes

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Notify On Error	Yes
SUPPRESS NOTIFICATION UNTIL LAST RETRY	Yes
SET RESULTS TO VM NOTES	Yes
VM ATTRIBUTE NOTE VALUE	Notes
APPEND TO EXISTING ATTRIBUTE	Yes

Table 183 - Advanced Settings (Notification) - Backup Job 8

### Advanced Settings (vSphere)

ENABLE VMWARE TOOLS QUIESCE	No
USE CHANGE BLOCK TRACKING	Yes
ENABLE CBT FOR ALL PROTECTED VMs	Yes
RESET CBT ON EACH ACTIVE FULL BACKUP	Yes

Table 184 - Advanced Settings (vSphere) - Backup Job 8

### Advanced Settings (Script)

RUN THE FOLLOWING SCRIPT BEFORE	Yes
RUN SCRIPT BEFORE THE JOB	test.bat
RUN THE FOLLOWING SCRIPT AFTER	Yes
RUN SCRIPT AFTER THE JOB	test.bat
RUN SCRIPT FREQUENCY	Cycles
RUN SCRIPT EVERY BACKUP SESSION	1

Table 185 - Advanced Settings (Script) - Backup Job 8

### Secondary Target

Job Name	Type	State	Description
PHARMAX-HQ-SVR-TAPE	Backup to Tape	Warning	Created by PHARMAX\administrator at 6/29/2021 7:24 PM.

Table 186 - Secondary Destination Jobs - Backup Job 8

### Schedule

RETRY FAILED ITEM	3
WAIT BEFORE EACH RETRY	10/min
BACKUP WINDOW	Yes
SCHEDULE TYPE	Monthly
SCHEDULE OPTIONS	Day Of Month: 1, Day Number In Month: Fourth, Day Of Week: Saturday
START TIME	10:00 PM
Latest Run	01/01/0001 00:00:00

Table 187 - Schedule Options - Backup Job 8

### Backup Window Time Period

**Permitted \ Denied**

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 188 - Backup Window - Backup Job 8

**1.5.2.3 COMP-CLUSTER-NFS****Common Information**

Name	COMP-CLUSTER-NFS
Type	VMware Backup
Total Backup Size	0 KB
Target Address	
Target File	COMP-CLUSTER-NFS
Description	Created by PHARMAX\administrator at 6/2/2021 8:15 PM.
Modified By	PHARMAX\administrator

Table 189 - Common Information - COMP-CLUSTER-NFS

**Health Check:**

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

**Virtual Machines**

Name	Resource Type	Role	Approx Size	Disk Filter Mode
RocaWeb	Virtual Machine	Include	0 B	AllDisks
LAB-FOC-01V	Virtual Machine	Exclude	0 B	AllDisks

Table 190 - Virtual Machines - COMP-CLUSTER-NFS

**Storage**

Backup Proxy	Automatic
Backup Repository	SOBR - Minio
Retention Type	Days
Retain Days To Keep	7
Keep First Full Backup	No
Enable Full Backup	No
Integrity Checks	Yes
Storage Encryption	No
Backup Mode	Incremental
Active Full Backup Schedule Kind	Daily

Active Full Backup Days	Saturday
Transform Full To Synthetic	Yes
Transform Increments To Synthetic	No
Transform To Synthetic Days	Saturday

Table 191 - Storage Options - COMP-CLUSTER-NFS

## Advanced Settings (Maintenance)

Storage-Level Corruption Guard (SLCG)	No
SLCG Schedule Type	Monthly
SLCG Schedule Day	Friday
SLCG Backup Monthly Schedule	Day Of Week: Friday Day Number In Month: Last Day of Month: 1 Months: January February March April May June July August September October November December
Defragment and Compact Full Backup (DCFB)	No
DCFB Schedule Type	Monthly
DCFB Schedule Day	Saturday
DCFB Backup Monthly Schedule	Day Of Week: Saturday Day Number In Month: Last Day of Month: 1 Months: January February March April May June July August September October November December
Remove deleted item data after	14

Table 192 - Advanced Settings (Maintenance) - COMP-CLUSTER-NFS

Health Check:

**Best Practice:** It is recommended to use storage-level corruption guard for any backup job with no active full backups scheduled. Synthetic full backups are still 'incremental forever' and may suffer from corruption over time. Storage-level corruption guard was introduced to provide a greater level of confidence in integrity of the backups.

## Advanced Settings (Storage)

Inline Data Deduplication	Yes
Exclude Swap Files Block	Yes
Exclude Deleted Files Block	Yes
Compression Level	OPTIMAL (Default)
Storage optimization	Local target
Enabled Backup File Encryption	No
Encryption Key	None

Table 193 - Advanced Settings (Storage) - COMP-CLUSTER-NFS

Health Check:

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**Best Practice:** Backup and replica data is a high potential source of vulnerability. To secure data stored in backups and replicas, use Veeam Backup & Replication inbuilt encryption to protect data in backups

### Advanced Settings (vSphere)

Enable VMware Tools Quiescence	No
Use Change Block Tracking	Yes
Enable CBT for all protected VMs	Yes
Reset CBT On each Active Full Backup	Yes

Table 194 - Advanced Settings (vSphere) - COMP-CLUSTER-NFS

### Schedule

Retry Failed item	3
Wait before each retry	10/min
Backup Window	Yes
Shedule type	Daily
Shedule Options	Kind: Everyday, Days: Monday Tuesday Wednesday Thursday Friday Saturday Sunday
Start Time	10:00 PM
Latest Run	01/14/2024 22:00:23

Table 195 - Schedule Options - COMP-CLUSTER-NFS

### Backup Window Time Period

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	Y																							
Mon																								
Tue																								
Wed																								
Thu																								
Fri																								
Sat																								

Table 196 - Backup Window - COMP-CLUSTER-NFS

### 1.5.2.4 PHARMAX-HQ-SVR

#### Common Information

Name	PHARMAX-HQ-SVR
Type	VMware Backup
Total Backup Size	31 GB
Target Address	
Target File	PHARMAX-HQ-SVR
Description	Created by PHARMAX\administrator at 6/29/2021 12:12

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	PM.
Modified By	PHARMAX\administrator

Table 197 - Common Information - PHARMAX-HQ-SVR

**Health Check:**

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

**Virtual Machines**

Name	Resource Type	Role	Approx Size	Disk Filter Mode
Linux-Mon-01v	Virtual Machine	Exclude	0 B	SelectedDisks
PHARMAX-HQ-SVR	Resource Pool	Include	30.6 GB	SelectedDisks
LAB-FOC-01V	Virtual Machine	Exclude	0 B	AllDisks

Table 198 - Virtual Machines - PHARMAX-HQ-SVR

**Storage**

Backup Proxy	veeam-lnx-px.pharmax.local
Backup Repository	SOBR - Minio
Retention Type	Cycles
Retain Cycles	8
Keep First Full Backup	No
Enable Full Backup	No
Integrity Checks	Yes
Storage Encryption	Yes
Backup Mode	Incremental
Active Full Backup Schedule Kind	Daily
Active Full Backup Days	Saturday
Transform Full To Synthetic	No
Transform Increments To Synthetic	No
Transform To Synthetic Days	Saturday
Keep certain full backup longer for archival purposes (GFS)	Yes
Keep Weekly full backup for	1 weeks, If multiple backup exist use the one from: Sunday
Keep Monthly full backup	Disabled
Keep Yearly full backup	Disabled

Table 199 - Storage Options - PHARMAX-HQ-SVR

**Advanced Settings (Maintenance)**

Storage-Level Corruption Guard (SLCG)	Yes
SLCG Schedule Type	Daily
SLCG Schedule Day	Friday
SLCG Backup Monthly Schedule	Day Of Week: Friday

Defragment and Compact Full Backup (DCFB)	Day Number In Month: Last Day of Month: 1 Months: January February March April May June July August September October November December
DCFB Schedule Type	Monthly
DCFB Schedule Day	Saturday
DCFB Backup Monthly Schedule	Day Of Week: Saturday Day Number In Month: Last Day of Month: 1 Months: January February March April May June July August September October November December
Remove deleted item data after	15

Table 200 - Advanced Settings (Maintenance) - PHARMAX-HQ-SVR

#### Advanced Settings (Storage)

Inline Data Deduplication	Yes
Exclude Swap Files Block	Yes
Exclude Deleted Files Block	Yes
Compression Level	OPTIMAL (Default)
Storage optimization	Local target (large blocks)
Enabled Backup File Encryption	Yes
Encryption Key	Password Global

Table 201 - Advanced Settings (Storage) - PHARMAX-HQ-SVR

#### Advanced Settings (Notification)

Send Snmp Notification	Yes
Send Email Notification	Yes
Email Notification Additional Addresses	rebelinux@gmail.com
Email Notify Time	10:00 PM
Use Custom Email Notification Options	Yes
Use Custom Notification Setting	[%JobResult%] %JobName% (%ObjectCount% machines) %Issues%
Notify On Success	Yes
Notify On Warning	Yes
Notify On Error	Yes
Suppress Notification until Last Retry	Yes
Set Results To Vm Notes	Yes
VM Attribute Note Value	Notes
Append to Existing Attribute	Yes

Table 202 - Advanced Settings (Notification) - PHARMAX-HQ-SVR

#### Advanced Settings (vSphere)

Enable VMware Tools Quiescence	Yes
--------------------------------	-----

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Use Change Block Tracking	Yes
Enable CBT for all protected VMs	No
Reset CBT On each Active Full Backup	No

Table 203 - Advanced Settings (vSphere) - PHARMAX-HQ-SVR

Advanced Settings (Integration)

Enable Backup from Storage Snapshots	Yes
Limit processed VM count per Storage Snapshot	No
VM count per Storage Snapshot	10
Failover to Standard Backup	Yes
Failover to Primary Storage Snapshot	Yes

Table 204 - Advanced Settings (Integration) - PHARMAX-HQ-SVR

Advanced Settings (Script)

Run the Following Script Before	Yes
Run Script Before the Job	sql_prefreeze.cmd
Run the Following Script After	Yes
Run Script After the Job	sql_postunfreeze.cmd
Run Script Frequency	Days
Run Script on the Selected Days	Saturday

Table 205 - Advanced Settings (Script) - PHARMAX-HQ-SVR

Secondary Target

Job Name	Type	State	Description
Backup Copy Job 1	Backup Copy	Warning	Created by PHARMAX\administrator at 2/12/2022 9:10 PM.
PHARMAX-HQ-SVR-TAPE	Backup to Tape	Warning	Created by PHARMAX\administrator at 6/29/2021 7:24 PM.

Table 206 - Secondary Destination Jobs - PHARMAX-HQ-SVR

Guest Processing

Name	PHARMAX-HQ-SVR
Enabled	Yes
Resource Type	Resource Pool
Ignore Errors	Yes
Guest Proxy Auto Detect	Yes
Default Credential	administrator@pharmax.local
Object Credential	administrator@vsphere.local
Application Processing	Yes
Transaction Logs	Process Transaction Logs

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Use Persistent Guest Agent	Yes
SQL Transaction Logs Processing	Backup logs periodically
SQL Backup Log Every	15 min
SQL Retain Log Backups	Keep Only Last 15 days of log backups
Oracle Account Type	Oracle
Oracle Sysdba Creds	backup_admin1
Oracle Backup Logs Every	5 min
Oracle Archive Logs	Delete Log Over 45 GB
Oracle Retain Log Backups	Keep Only Last 15 days of log backups
File Exclusions	Yes
Include only the following file and folders	c:\data2,c:\Windows
Scripts	Yes
Scripts Mode	Ignore script execution failures
Windows Pre-freeze script	c:\superduper.script.cmd
Windows Post-thaw script	c:\superduper.scriptpost.cmd

Table 207 - Guest Processing Options - PHARMAX-HQ-SVR

Name	Linux-Mon-01v
Enabled	Yes
Resource Type	Virtual Machine
Ignore Errors	No
Guest Proxy Auto Detect	Yes
Default Credential	administrator@pharmax.local
Object Credential	Default Credential
Application Processing	Yes
Transaction Logs	Process Transaction Logs
Use Persistent Guest Agent	No
SQL Transaction Logs Processing	Do not truncate logs
SQL Backup Log Every	15 min
SQL Retain Log Backups	Until the corresponding image-level backup is deleted
Oracle Account Type	Oracle
Oracle Sysdba Creds	Guest OS Credential
Oracle Backup Logs Every	15 min
Oracle Archive Logs	Delete Log Older Than 24 hours
Oracle Retain Log Backups	Until the corresponding image-level backup is deleted
File Exclusions	Yes
Exclude the following file and folders	c:\data,c:\Users
Scripts	Yes
Scripts Mode	Require successfull script execution
Linux Pre-freeze script	/sbin/premysql.sh
Linux Post-thaw script	/sbin/postmysql.sh

Table 208 - Guest Processing Options - Linux-Mon-01v

### 1.5.2.5 SOBR - TEST

## Common Information

Name	SOBR - TEST
Type	VMware Backup
Total Backup Size	78 GB
Target Address	
Target File	SOBR - TEST
Description	
Modified By	PHARMAX\administrator

Table 209 - Common Information - SOBR - TEST

## Health Check:

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

## Virtual Machines

Name	Resource Type	Role	Approx Size	Disk Filter Mode
LINUX-VM	Virtual Machine	Include	8.4 GB	AllDisks
AD-LAB	Virtual Application	Include	69.5 GB	AllDisks
LAB-FOC-01V	Virtual Machine	Exclude	0 B	AllDisks

Table 210 - Virtual Machines - SOBR - TEST

## Storage

Backup Proxy	Automatic
Backup Repository	SOBR - Minio
Retention Type	Days
Retain Days To Keep	7
Keep First Full Backup	No
Enable Full Backup	Yes
Integrity Checks	Yes
Storage Encryption	No
Backup Mode	Incremental
Active Full Backup Schedule Kind	Daily
Active Full Backup Days	Saturday
Transform Full To Synthetic	Yes
Transform Increments To Synthetic	No
Transform To Synthetic Days	Saturday
Keep certain full backup longer for archival purposes (GFS)	Yes
Keep Weekly full backup	Disabled
Keep Monthly full backup for	2 months, Use weekly full backup from the following week of the month: First
Keep Yearly full backup for	1 years, Use monthly full backup from the following month: July

Table 211 - Storage Options - SOBR - TEST

**Advanced Settings (Maintenance)**

Storage-Level Corruption Guard (SLCG)	No
SLCG Schedule Type	Monthly
SLCG Schedule Day	Friday
SLCG Backup Monthly Schedule	Day Of Week: Friday Day Number In Month: Last Day of Month: 1 Months: January February March April May June July August September October November December
Defragment and Compact Full Backup (DCFB)	No
DCFB Schedule Type	Monthly
DCFB Schedule Day	Saturday
DCFB Backup Monthly Schedule	Day Of Week: Saturday Day Number In Month: Last Day of Month: 1 Months: January February March April May June July August September October November December
Remove deleted item data after	14

Table 212 - Advanced Settings (Maintenance) - SOBR - TEST

**Health Check:**

**Best Practice:** It is recommended to use storage-level corruption guard for any backup job with no active full backups scheduled. Synthetic full backups are still 'incremental forever' and may suffer from corruption over time. Storage-level corruption guard was introduced to provide a greater level of confidence in integrity of the backups.

**Advanced Settings (Storage)**

Inline Data Deduplication	Yes
Exclude Swap Files Block	Yes
Exclude Deleted Files Block	Yes
Compression Level	OPTIMAL (Default)
Storage optimization	Local target
Enabled Backup File Encryption	No
Encryption Key	None

Table 213 - Advanced Settings (Storage) - SOBR - TEST

**Health Check:**

**Best Practice:** Backup and replica data is a high potential source of vulnerability. To secure data stored in backups and replicas, use Veeam Backup & Replication inbuilt encryption to protect data in backups

**Advanced Settings (vSphere)**

Enable VMware Tools Quiescence	No
Use Change Block Tracking	Yes

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Enable CBT for all protected VMs	Yes
Reset CBT On each Active Full Backup	Yes

Table 214 - Advanced Settings (vSphere) - SOBR - TEST

Secondary Target

Job Name	Type	State	Description
Backup Copy Job 4	Backup Copy	Failed	Created by PHARMAX\administrator at 7/7/2023 5:01 PM.

Table 215 - Secondary Destination Jobs - SOBR - TEST

Guest Processing

Name	LINUX-VM
Enabled	Yes
Resource Type	Virtual Machine
Ignore Errors	No
Guest Proxy Auto Detect	Yes
Default Credential	administrator@vsphere.local
Object Credential	Default Credential
Application Processing	Yes
Transaction Logs	Process Transaction Logs
Use Persistent Guest Agent	No
SQL Transaction Logs Processing	Truncate logs
SQL Backup Log Every	15 min
SQL Retain Log Backups	Until the corresponding image-level backup is deleted

Table 216 - Guest Processing Options - LINUX-VM

Name	AD-LAB
Enabled	Yes
Resource Type	Virtual Application
Ignore Errors	No
Guest Proxy Auto Detect	Yes
Default Credential	administrator@vsphere.local
Object Credential	Default Credential
Application Processing	Yes
Transaction Logs	Process Transaction Logs
Use Persistent Guest Agent	No
SQL Transaction Logs Processing	Truncate logs
SQL Backup Log Every	15 min
SQL Retain Log Backups	Until the corresponding image-level backup is deleted

Table 217 - Guest Processing Options - AD-LAB

Schedule

Retry Failed item	3
Wait before each retry	10/min

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Backup Window	Yes
Schedule type	Daily
Schedule Options	Kind: Everyday, Days: Monday Tuesday Wednesday Thursday Friday Saturday Sunday
Start Time	10:00 PM
Latest Run	01/15/2024 22:00:07

Table 218 - Schedule Options - SOBR - TEST

#### Backup Window Time Period

##### Permitted \ Denied

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 219 - Backup Window - SOBR - TEST

#### 1.5.2.6 VM - Test - AWS

##### Common Information

Name	VM - Test - AWS
Type	VMware Backup
Total Backup Size	26 MB
Target Address	
Target File	VM - Test - AWS
Description	Created by PHARMAX\jocolon at 12/20/2021 12:56 PM.
Modified By	PHARMAX\jocolon

Table 220 - Common Information - VM - Test - AWS

##### Health Check:

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

##### Virtual Machines

Name	Resource Type	Role	Approx Size	Disk Filter Mode
VEEAM-VM-TINY	Virtual Machine	Include	26 MB	AllDisks
LAB-FOC-01V	Virtual Machine	Exclude	0 B	AllDisks

Table 221 - Virtual Machines - VM - Test - AWS

##### Storage

Backup Proxy	Automatic
Backup Repository	SOBR - AWS S3
Retention Type	Days
Retain Days To Keep	7
Keep First Full Backup	No
Enable Full Backup	No
Integrity Checks	Yes
Storage Encryption	No
Backup Mode	Incremental
Active Full Backup Schedule Kind	Daily
Active Full Backup Days	Saturday
Transform Full To Synthetic	Yes
Transform Increments To Synthetic	No
Transform To Synthetic Days	Saturday

Table 222 - Storage Options - VM - Test - AWS

**Advanced Settings (Maintenance)**

Storage-Level Corruption Guard (SLCG)	No
SLCG Schedule Type	Monthly
SLCG Schedule Day	Friday
SLCG Backup Monthly Schedule	Day Of Week: Friday Day Number In Month: Last Day of Month: 1 Months: January February March April May June July August September October November December
Defragment and Compact Full Backup (DCFB)	No
DCFB Schedule Type	Monthly
DCFB Schedule Day	Saturday
DCFB Backup Monthly Schedule	Day Of Week: Saturday Day Number In Month: Last Day of Month: 1 Months: January February March April May June July August September October November December
Remove deleted item data after	14

Table 223 - Advanced Settings (Maintenance) - VM - Test - AWS

**Health Check:**

**Best Practice:** It is recommended to use storage-level corruption guard for any backup job with no active full backups scheduled. Synthetic full backups are still 'incremental forever' and may suffer from corruption over time. Storage-level corruption guard was introduced to provide a greater level of confidence in integrity of the backups.

**Advanced Settings (Storage)**

Inline Data Deduplication	Yes
Exclude Swap Files Block	Yes

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Exclude Deleted Files Block	Yes
Compression Level	OPTIMAL (Default)
Storage optimization	Local target
Enabled Backup File Encryption	No
Encryption Key	None

Table 224 - Advanced Settings (Storage) - VM - Test - AWS

### Health Check:

**Best Practice:** Backup and replica data is a high potential source of vulnerability. To secure data stored in backups and replicas, use Veeam Backup & Replication inbuilt encryption to protect data in backups

### Advanced Settings (vSphere)

Enable VMware Tools Quiescence	No
Use Change Block Tracking	Yes
Enable CBT for all protected VMs	Yes
Reset CBT On each Active Full Backup	Yes

Table 225 - Advanced Settings (vSphere) - VM - Test - AWS

### Advanced Settings (Integration)

Enable Backup from Storage Snapshots	Yes
Limit processed VM count per Storage Snapshot	No
VM count per Storage Snapshot	10
Failover to Standard Backup	No
Failover to Primary Storage Snapshot	No

Table 226 - Advanced Settings (Integration) - VM - Test - AWS

### Schedule

Retry Failed item	3
Wait before each retry	10/min
Backup Window	No
Shedule type	Daily
Shedule Options	Kind: Everyday, Days: Sunday Monday Tuesday Wednesday Thursday Friday Saturday
Start Time	10:00 PM
Latest Run	01/01/0001 00:00:00

Table 227 - Schedule Options - VM - Test - AWS

### 1.5.2.7 VM Copy Job 1

#### Common Information

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Name	VM Copy Job 1
Type	VM Copy
Total Backup Size	2 GB
Target Address	F:\VM
Target File	
Description	Created by PHARMAX\jocolon at 2/6/2022 3:28 PM.
Modified By	PHARMAX\administrator

Table 228 - Common Information - VM Copy Job 1

**Health Check:**

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

**Virtual Machines**

Name	Resource Type	Role	Approx Size	Disk Filter Mode
csr-mapserver	Virtual Machine	Include	1.5 GB	AllDisks
LAB-FOC-01V	Virtual Machine	Exclude	0 B	AllDisks

Table 229 - Virtual Machines - VM Copy Job 1

**Storage**

Backup Proxy	Automatic
Backup Repository	F:\VM
Retention Type	Days
Retain Days To Keep	7
Keep First Full Backup	No
Enable Full Backup	No
Integrity Checks	Yes
Storage Encryption	No
Backup Mode	Incremental
Active Full Backup Schedule Kind	Daily
Active Full Backup Days	Saturday
Transform Full To Synthetic	Yes
Transform Increments To Synthetic	No
Transform To Synthetic Days	Saturday

Table 230 - Storage Options - VM Copy Job 1

**Advanced Settings (Maintenance)**

Storage-Level Corruption Guard (SLCG)	No
SLCG Schedule Type	Monthly
SLCG Schedule Day	Saturday
SLCG Backup Monthly Schedule	Day Of Week: Saturday Day Number In Month: Last Day of Month: 1

	Months: January February March April May June July August September October November December
Defragment and Compact Full Backup (DCFB)	No
DCFB Schedule Type	Monthly
DCFB Schedule Day	Saturday
DCFB Backup Monthly Schedule	Day Of Week: Saturday Day Number In Month: Last Day of Month: 1 Months: January February March April May June July August September October November December
Remove deleted item data after	14

Table 231 - Advanced Settings (Maintenance) - VM Copy Job 1

#### Health Check:

**Best Practice:** It is recommended to use storage-level corruption guard for any backup job with no active full backups scheduled. Synthetic full backups are still 'incremental forever' and may suffer from corruption over time. Storage-level corruption guard was introduced to provide a greater level of confidence in integrity of the backups.

#### Advanced Settings (Storage)

Inline Data Deduplication	Yes
Exclude Swap Files Block	Yes
Exclude Deleted Files Block	Yes
Compression Level	OPTIMAL (Default)
Storage optimization	Local target
Enabled Backup File Encryption	No
Encryption Key	None

Table 232 - Advanced Settings (Storage) - VM Copy Job 1

#### Health Check:

**Best Practice:** Backup and replica data is a high potential source of vulnerability. To secure data stored in backups and replicas, use Veeam Backup & Replication inbuilt encryption to protect data in backups

#### Advanced Settings (vSphere)

Enable VMware Tools Quiescence	No
Use Change Block Tracking	Yes
Enable CBT for all protected VMs	Yes
Reset CBT On each Active Full Backup	Yes

Table 233 - Advanced Settings (vSphere) - VM Copy Job 1

#### Advanced Settings (Integration)

Enable Backup from Storage Snapshots	Yes
Limit processed VM count per Storage Snapshot	No

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VM count per Storage Snapshot	10
Failover to Standard Backup	No
Failover to Primary Storage Snapshot	No

Table 234 - Advanced Settings (Integration) - VM Copy Job 1

### Guest Processing

Name	csr-mapserver
Enabled	Yes
Resource Type	Virtual Machine
Ignore Errors	Yes
Guest Proxy Auto Detect	Yes
Default Credential	administrator@pharmax.local
Object Credential	Default Credential
Application Processing	Yes
Transaction Logs	Process Transaction Logs
Use Persistent Guest Agent	Yes
SQL Transaction Logs Processing	Truncate logs
SQL Backup Log Every	15 min
SQL Retain Log Backups	Until the corresponding image-level backup is deleted
Oracle Account Type	Oracle
Oracle Sysdba Creds	Guest OS Credential
Oracle Archive Logs	Delete Log Over 10 GB
Oracle Retain Log Backups	Until the corresponding image-level backup is deleted
Scripts	Yes
Scripts Mode	Require successfull script execution
Windows Pre-freeze script	preprueba.exe
Windows Post-thaw script	postprueba.exe

Table 235 - Guest Processing Options - csr-mapserver

### 1.5.3 Hyper-V Backup Jobs Configuration

The following section details the configuration of the Hyper-V type backup jobs.

Name	Creation Time	VM Count
HyperV-Backup-Job	01/14/2024 22:00:29	1
HyperV-Backup-Job	06/30/2021 22:06:10	2
HYPERV-VEEAM-Win2016	12/15/2019 22:03:08	0
WIN HyperV VM Backup	12/26/2021 20:38:56	1

Table 236 - Hyper-V Backup Summary - VEEAM-VBR

#### 1.5.3.1 HyperV-Backup-Job

##### Common Information

Name	HyperV-Backup-Job
------	-------------------

Veeam Backup & Replication As Built Report - v1.0

Type	Hyper-V Backup
Total Backup Size	4 MB
Target Address	E:\Backups
Target File	HyperV-Backup-Job
Description	Created by PHARMAX\administrator at 6/30/2021 10:02 PM.
Modified By	PHARMAX\administrator

Table 237 - Common Information - HyperV-Backup-Job

**Health Check:**

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

**Virtual Machines**

Name	Resource Type	Role	Approx Size	Disk Filter Mode
LNX-WEB-01	VM	Include	4 MB	AllDisks

Table 238 - Virtual Machines - HyperV-Backup-Job

**Storage**

Backup Proxy	VEEAM-HVPRX-01V.pharmax.local
Backup Repository	HQ - Backups
Retention Type	Days
Retain Days To Keep	7
Keep First Full Backup	No
Enable Full Backup	No
Integrity Checks	Yes
Storage Encryption	Yes
Backup Mode	Incremental
Active Full Backup Schedule Kind	Daily
Active Full Backup Days	Saturday
Transform Full To Synthetic	Yes
Transform Increments To Synthetic	No
Transform To Synthetic Days	Saturday
Keep certain full backup longer for archival purposes (GFS)	Yes
Keep Weekly full backup for	1 weeks, If multiple backup exist use the one from: Sunday
Keep Monthly full backup	Disabled
Keep Yearly full backup	Disabled

Table 239 - Storage Options - HyperV-Backup-Job

**Advanced Settings (Maintenance)**

Storage-Level Corruption Guard (SLCG)	Yes
SLCG Schedule Type	Monthly

SLCG Schedule Day	Friday
SLCG Backup Monthly Schedule	Day Of Week: Friday Day Number In Month: Last Day of Month: 1 Months: January February March April May June July August September October November December
Defragment and Compact Full Backup (DCFB)	No
DCFB Schedule Type	Monthly
DCFB Schedule Day	Saturday
DCFB Backup Monthly Schedule	Day Of Week: Saturday Day Number In Month: Last Day of Month: 1 Months: January February March April May June July August September October November December
Remove deleted item data after	14

Table 240 - Advanced Settings (Maintenance) - HyperV-Backup-Job

#### Advanced Settings (Storage)

Inline Data Deduplication	No
Exclude Swap Files Block	Yes
Exclude Deleted Files Block	Yes
Compression Level	OPTIMAL (Default)
Storage optimization	Local target (large blocks)
Enabled Backup File Encryption	Yes
Encryption Key	Password Global

Table 241 - Advanced Settings (Storage) - HyperV-Backup-Job

#### Advanced Settings (Notification)

Send Snmp Notification	Yes
Send Email Notification	No
Email Notification Additional Addresses	
Email Notify Time	10:00 PM
Use Custom Email Notification Options	No
Use Custom Notification Setting	[%JobResult%] %JobName% (%ObjectCount% machines) %Issues%
Notify On Success	Yes
Notify On Warning	Yes
Notify On Error	Yes
Suppress Notification until Last Retry	Yes
Set Results To Vm Notes	--
VM Attribute Note Value	
Append to Existing Attribute	--

Table 242 - Advanced Settings (Notification) - HyperV-Backup-Job

#### Advanced Settings (Hyper-V)

Veeam Backup & Replication As Built Report - v1.0

Enable Hyper-V Guest Quiescence	Yes
Crash Consistent Backup	Yes
Use Change Block Tracking	Yes
Volume Snapshot	Yes

Table 243 - Advanced Settings (Hyper-V) - HyperV-Backup-Job

Advanced Settings (Integration)

Enable Backup from Storage Snapshots	Yes
Limit processed VM count per Storage Snapshot	No
VM count per Storage Snapshot	10
Failover to Standard Backup	No
Failover to Primary Storage Snapshot	No

Table 244 - Advanced Settings (Integration) - HyperV-Backup-Job

Advanced Settings (Script)

Run the Following Script Before	Yes
Run Script Before the Job	pretest.bat
Run the Following Script After	Yes
Run Script After the Job	posttest.bat
Run Script Frequency	Cycles
Run Script Every Backup Session	1

Table 245 - Advanced Settings (Script) - HyperV-Backup-Job

Secondary Target

Job Name	Type	State	Description
Hyper-V-Backup-Copy	Backup Copy	Failed	

Table 246 - Secondary Destination Jobs - HyperV-Backup-Job

Guest Processing

Name	LNX-WEB-01
Enabled	Yes
Resource Type	
Ignore Errors	No
Guest Proxy Auto Detect	Yes
Default Credential	administrator@pharmax.local
Object Credential	Default Credential
Application Processing	Yes
Transaction Logs	Process Transaction Logs
Use Persistent Guest Agent	No
SQL Transaction Logs Processing	Truncate logs
SQL Backup Log Every	15 min

SQL Retain Log Backups	Until the corresponding image-level backup is deleted
<i>Table 247 - Guest Processing Options - LNX-WEB-01</i>	

### Schedule

Retry Failed item	3
Wait before each retry	10/min
Backup Window	Yes
Schedule type	Daily
Schedule Options	Kind: Everyday, Days: Monday Tuesday Wednesday Thursday Friday Saturday Sunday
Start Time	10:00 PM
Latest Run	01/15/2024 22:00:07

*Table 248 - Schedule Options - HyperV-Backup-Job*

### Backup Window Time Period

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 249 - Backup Window - HyperV-Backup-Job*

### 1.5.3.2 WIN HyperV VM Backup

#### Common Information

Name	WIN HyperV VM Backup
Type	Hyper-V Backup
Total Backup Size	4 MB
Target Address	
Target File	WIN HyperV VM Backup
Description	Created by PHARMAX\jocolon at 12/26/2021 8:36 PM.
Modified By	PHARMAX\administrator

*Table 250 - Common Information - WIN HyperV VM Backup*

#### Health Check:

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

#### Virtual Machines

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Name	Resource Type	Role	Approx Size	Disk Filter Mode
pharmax-cluster.pharmax.local	Directory	Include	4 MB	AllDisks
Server-EX-01v	VM	Exclude	0 B	SelectedDisks

Table 251 - Virtual Machines - WIN HyperV VM Backup

### Storage

Backup Proxy	VEEAM-HVPRX-01V.pharmax.local
Backup Repository	SOBR - Minio
Retention Type	Days
Retain Days To Keep	7
Keep First Full Backup	No
Enable Full Backup	Yes
Integrity Checks	Yes
Storage Encryption	Yes
Backup Mode	Incremental
Active Full Backup Schedule Kind	Daily
Active Full Backup Days	Saturday
Transform Full To Synthetic	Yes
Transform Increments To Synthetic	No
Transform To Synthetic Days	Saturday
Keep certain full backup longer for archival purposes (GFS)	Yes
Keep Weekly full backup for	1 weeks, If multiple backup exist use the one from: Sunday
Keep Monthly full backup	Disabled
Keep Yearly full backup	Disabled

Table 252 - Storage Options - WIN HyperV VM Backup

### Advanced Settings (Maintenance)

Storage-Level Corruption Guard (SLCG)	Yes
SLCG Schedule Type	Monthly
SLCG Schedule Day	Friday
SLCG Backup Monthly Schedule	Day Of Week: Friday Day Number In Month: Last Day of Month: 1 Months: January February March April May June July August September October November December
Defragment and Compact Full Backup (DCFB)	No
DCFB Schedule Type	Monthly
DCFB Schedule Day	Saturday
DCFB Backup Monthly Schedule	Day Of Week: Saturday Day Number In Month: Last

Veeam Backup & Replication As Built Report - v1.0

	Day of Month: 1 Months: January February March April May June July August September October November December
Remove deleted item data after	14

Table 253 - Advanced Settings (Maintenance) - WIN HyperV VM Backup

Advanced Settings (Storage)

Inline Data Deduplication	Yes
Exclude Swap Files Block	Yes
Exclude Deleted Files Block	Yes
Compression Level	OPTIMAL (Default)
Storage optimization	Local target
Enabled Backup File Encryption	Yes
Encryption Key	Password Global

Table 254 - Advanced Settings (Storage) - WIN HyperV VM Backup

Advanced Settings (Notification)

Send Snmp Notification	Yes
Send Email Notification	Yes
Email Notification Additional Addresses	rebelinux@gmail.com
Email Notify Time	10:00 PM
Use Custom Email Notification Options	No
Use Custom Notification Setting	[%JobResult%] %JobName% (%ObjectCount% machines) %Issues%
Notify On Success	Yes
Notify On Warning	Yes
Notify On Error	Yes
Suppress Notification until Last Retry	Yes
Set Results To Vm Notes	--
VM Attribute Note Value	--
Append to Existing Attribute	--

Table 255 - Advanced Settings (Notification) - WIN HyperV VM Backup

Advanced Settings (Hyper-V)

Enable Hyper-V Guest Quiescence	Yes
Crash Consistent Backup	Yes
Use Change Block Tracking	Yes
Volume Snapshot	Yes

Table 256 - Advanced Settings (Hyper-V) - WIN HyperV VM Backup

Advanced Settings (Integration)

Enable Backup from Storage Snapshots	Yes
--------------------------------------	-----

Veeam Backup & Replication As Built Report - v1.0

Limit processed VM count per Storage Snapshot	No
VM count per Storage Snapshot	10
Failover to Standard Backup	No
Failover to Primary Storage Snapshot	No

Table 257 - Advanced Settings (Integration) - WIN HyperV VM Backup

Advanced Settings (Script)

Run the Following Script Before	Yes
Run Script Before the Job	pre-exchange.bat
Run the Following Script After	Yes
Run Script After the Job	post-exchange.bat
Run Script Frequency	Days
Run Script on the Selected Days	Saturday

Table 258 - Advanced Settings (Script) - WIN HyperV VM Backup

Secondary Target

Job Name	Type	State	Description
PHARMAX-HQ-SVR-TAPE	Backup to Tape	Warning	Created by PHARMAX\administrator at 6/29/2021 7:24 PM.

Table 259 - Secondary Destination Jobs - WIN HyperV VM Backup

Guest Processing

Name	pharmax-cluster.pharmax.local
Enabled	Yes
Resource Type	
Ignore Errors	No
Guest Proxy Auto Detect	Yes
Default Credential	admin
Object Credential	Default Credential
Application Processing	Yes
Transaction Logs	Process Transaction Logs
Use Persistent Guest Agent	No
SQL Transaction Logs Processing	Truncate logs
SQL Backup Log Every	15 min
SQL Retain Log Backups	Until the corresponding image-level backup is deleted

Table 260 - Guest Processing Options - pharmax-cluster.pharmax.local

Name	Server-EX-01v
Enabled	Yes
Resource Type	
Ignore Errors	Yes
Guest Proxy Auto Detect	Yes

Default Credential	admin
Object Credential	Default Credential
Application Processing	Yes
Transaction Logs	Process Transaction Logs
Use Persistent Guest Agent	Yes
SQL Transaction Logs Processing	Truncate logs
SQL Backup Log Every	15 min
SQL Retain Log Backups	Until the corresponding image-level backup is deleted
Oracle Account Type	Oracle
Oracle Sysdba Creds	Guest OS Credential
Oracle Backup Logs Every	15 min
Oracle Archive Logs	Disabled
Oracle Retain Log Backups	Until the corresponding image-level backup is deleted

Table 261 - Guest Processing Options - Server-EX-01v

### Schedule

Retry Failed item	3
Wait before each retry	10/min
Backup Window	Yes
Shedule type	Monthly
Shedule Options	Day Of Month: 1, Day Number In Month: Fourth, Day Of Week: Saturday
Start Time	10:00 PM
Latest Run	02/26/2022 22:00:08

Table 262 - Schedule Options - WIN HyperV VM Backup

### Backup Window Time Period

#### Permitted \ Denied

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 263 - Backup Window - WIN HyperV VM Backup

### 1.5.4 Replication Jobs

The following section provide a summary about replication jobs

Name	Type	Status	Latest Result	Last Run
Cloud-Replication-	VMware	Enabled	Warning	12/22/2043 19:11:12

## Veeam Backup & Replication As Built Report - v1.0

Name	Type	Status	Latest Result	Last Run
Virtualdcs	Replication			
HVCluster-To-HVStandalone	Hyper-V Replication	Enabled	Warning	

Table 264 - Replication Jobs - VEEAM-VBR

### 1.5.5 VMware Replication Jobs Configuration

The following section details the configuration about VMware type backup jobs.

Name	Creation Time	VM Count
Cloud-Replication-Virtualdcs	Monday, June 27, 2022	

Table 265 - VMware Replication Summary - VEEAM-VBR

#### 1.5.5.1 Cloud-Replication-Virtualdcs

##### Common Information

Name	Cloud-Replication-Virtualdcs
Type	VMware Replication
Total Backup Size	0 KB
Target Address	
Target File	replica
Description	Created by PHARMAX\administrator at 6/27/2022 4:44 PM.
Modified By	PHARMAX\administrator

Table 266 - Common Information - Cloud-Replication-Virtualdcs

##### Destination

Host or Cluster	vcenter-01v.phamax.local
Resources Pool	
VM Folder	
Datastore	VCC-ZenPRSSolutions-Replication Storage

Table 267 - Destination - Cloud-Replication-Virtualdcs

##### Network

Source Network	Target Network
DVS-ESXi-MANAGEMENT (PHARMAX-DVS)	VCCR-ZenPRSSolutions-Hardware Plan network 1 (internet)

Table 268 - Network Mappings - Cloud-Replication-Virtualdcs

##### Virtual Machines

Name	Resource Type	Role	Approx Size	Disk Filter Mode
LAB-FOC-01V	Virtual Machine	Exclude	0 B	AllDisks

Table 269 - Virtual Machines - Cloud-Replication-Virtualdcs

**Job Settings**

Repository for replica metadata	Linux - Hardened Repository
Replica Name Suffix	_replica
Retain Cycles	7

Table 270 - Options - Cloud-Replication-Virtualdcs

**Advanced Settings (Maintenance)**

Storage-Level Corruption Guard (SLCG)	No
SLCG Schedule Type	Monthly
SLCG Schedule Day	Saturday
SLCG Backup Monthly Schedule	Day Of Week: Saturday Day Number In Month: Last Day of Month: 1 Months: January February March April May June July August September October November December
Defragment and Compact Full Backup (DCFB)	No
DCFB Schedule Type	Monthly
DCFB Schedule Day	Saturday
DCFB Backup Monthly Schedule	Day Of Week: Saturday Day Number In Month: Last Day of Month: 1 Months: January February March April May June July August September October November December
Remove deleted item data after	14

Table 271 - Advanced Settings (Maintenance) - Cloud-Replication-Virtualdcs

**Health Check:**

**Best Practice:** It is recommended to use storage-level corruption guard for any backup job with no active full backups scheduled. Synthetic full backups are still 'incremental forever' and may suffer from corruption over time. Storage-level corruption guard was introduced to provide a greater level of confidence in integrity of the backups.

**Advanced Settings (Traffic)**

Inline Data Deduplication	Yes
Exclude Swap Files Block	Yes
Exclude Deleted Files Block	Yes
Compression Level	OPTIMAL (Default)
Storage optimization	LAN target
Enabled Backup File Encryption	No
Encryption Key	None

Table 272 - Advanced Settings (Traffic) - Cloud-Replication-Virtualdcs

**Health Check:**

## Veeam Backup & Replication As Built Report - v1.0

**Best Practice:** Backup and replica data is a high potential source of vulnerability. To secure data stored in backups and replicas, use Veeam Backup & Replication inbuilt encryption to protect data in backups

### Advanced Settings (vSphere)

Enable VMware Tools Quiescence	No
Use Change Block Tracking	Yes
Enable CBT for all protected VMs	Yes
Reset CBT On each Active Full Backup	Yes

Table 273 - Advanced Settings (vSphere) - Cloud-Replication-Virtualdcs

### Advanced Settings (Integration)

Enable Backup from Storage Snapshots	Yes
Limit processed VM count per Storage Snapshot	No
VM count per Storage Snapshot	10
Failover to Standard Backup	No
Failover to Primary Storage Snapshot	No

Table 274 - Advanced Settings (Integration) - Cloud-Replication-Virtualdcs

### Data Transfer

Source Proxy	Automatic
Target Proxy	Automatic
Use Wan accelerator	Yes
Source Wan accelerator	VEEAM-VBR-02V.pharmax.local
Target Wan accelerator	

Table 275 - Data Transfer - Cloud-Replication-Virtualdcs

### Seeding

Seed from Backup Repository	BackBlazeB2 Repository
Map Replica to Existing VM	No

Table 276 - Seeding - Cloud-Replication-Virtualdcs

### Guest Processing

Name	csr-mapserver
Enabled	Yes
Resource Type	Virtual Machine
Ignore Errors	No
Guest Proxy Auto Detect	Yes
Default Credential	acad\Administrator
Object Credential	Default Credential
Application Processing	Yes
Transaction Logs	Perform Copy Only

Veeam Backup & Replication As Built Report - v1.0

Use Persistent Guest Agent	No
----------------------------	----

Table 277 - Guest Processing Options - csr-mapserver

Name	csr-pharmax-dr
Enabled	Yes
Resource Type	Virtual Machine
Ignore Errors	No
Guest Proxy Auto Detect	Yes
Default Credential	acad\Administrator
Object Credential	Default Credential
Application Processing	Yes
Transaction Logs	Perform Copy Only
Use Persistent Guest Agent	No

Table 278 - Guest Processing Options - csr-pharmax-dr

Name	csr-pharmax-hq
Enabled	Yes
Resource Type	Virtual Machine
Ignore Errors	No
Guest Proxy Auto Detect	Yes
Default Credential	acad\Administrator
Object Credential	Default Credential
Application Processing	Yes
Transaction Logs	Perform Copy Only
Use Persistent Guest Agent	No

Table 279 - Guest Processing Options - csr-pharmax-hq

## Schedule

Retry Failed item	3
Wait before each retry	10/min
Backup Window	Yes
Schedule type	Monthly
Schedule Options	Day Of Month: 0, Day Number In Month: Fourth, Day Of Week: Saturday
Start Time	10:00 PM
Latest Run	01/01/0001 00:00:00

Table 280 - Schedule Options - Cloud-Replication-Virtualdcs

## Backup Window Time Period

### Permitted \ Denied

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																								

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
Wed																								
Thu																								
Fri																								
Sat																								

Table 281 - Backup Window - Cloud-Replication-Virtualdcs

### 1.5.6 Hyper-V Replication Jobs Configuration

The following section details the configuration about Hyper-V replication jobs.

Name	Creation Time	VM Count
HVCluster-To-HVStandalone		

Table 282 - Hyper-V Replication Summary - VEEAM-VBR

#### 1.5.6.1 HVCluster-To-HVStandalone

##### Common Information

Name	HVCluster-To-HVStandalone
Type	Hyper-V Replication
Total Backup Size	4 MB
Target Address	C:\Hyper-V VM
Target File	replica
Description	Created by PHARMAX\administrator at 5/7/2022 1:30 PM.
Modified By	PHARMAX\administrator

Table 283 - Common Information - HVCluster-To-HVStandalone

##### Destination

Host or Cluster	Hosts and VMs
Path	c:\replicas

Table 284 - Destination - HVCluster-To-HVStandalone

##### Network

Source Network	Target Network
vmxnet3 Ethernet Adapter - Virtual Switch	vmxnet3 Ethernet Adapter - Virtual Switch

Table 285 - Network Mappings - HVCluster-To-HVStandalone

##### Re-IP Rules

Source IP Address	Source Subnet Mask	Target P Address	Target Subnet Mask	Target Default Gateway	Target DNS Addresses
192.168.7.*	255.255.255.0	192.168.8.*	255.255.255.0	192.168.8.254	192.168.5.1

Table 286 - Re-IP Rules - HVCluster-To-HVStandalone

**Job Settings**

Repository for replica metadata	Linux - Hardened Repository
Replica Name Suffix	_replica
Restore Point To Keep	7

Table 287 - Options - HVCluster-To-HVStandalone

**Advanced Settings (Maintenance)**

Storage-Level Corruption Guard (SLCG)	No
SLCG Schedule Type	Monthly
SLCG Schedule Day	Saturday
SLCG Backup Monthly Schedule	Day Of Week: Saturday Day Number In Month: Last Day of Month: 1 Months: January February March April May June July August September October November December
Defragment and Compact Full Backup (DCFB)	No
DCFB Schedule Type	Monthly
DCFB Schedule Day	Saturday
DCFB Backup Monthly Schedule	Day Of Week: Saturday Day Number In Month: Last Day of Month: 1 Months: January February March April May June July August September October November December
Remove deleted item data after	14

Table 288 - Advanced Settings (Maintenance) - HVCluster-To-HVStandalone

**Health Check:**

**Best Practice:** It is recommended to use storage-level corruption guard for any backup job with no active full backups scheduled. Synthetic full backups are still 'incremental forever' and may suffer from corruption over time. Storage-level corruption guard was introduced to provide a greater level of confidence in integrity of the backups.

**Advanced Settings (Traffic)**

Inline Data Deduplication	Yes
Exclude Swap Files Block	Yes
Exclude Deleted Files Block	Yes
Compression Level	OPTIMAL (Default)
Storage optimization	LAN target
Enabled Backup File Encryption	No
Encryption Key	None

Table 289 - Advanced Settings (Traffic) - HVCluster-To-HVStandalone

**Health Check:**

## Veeam Backup & Replication As Built Report - v1.0

**Best Practice:** Backup and replica data is a high potential source of vulnerability. To secure data stored in backups and replicas, use Veeam Backup & Replication inbuilt encryption to protect data in backups

### Advanced Settings (Hyper-V)

Enable Hyper-V Guest Quiescence	Yes
Crash Consistent Backup	Yes
Use Change Block Tracking	Yes
Volume Snapshot	Yes

Table 290 - Advanced Settings (Hyper-V) - HVCluster-To-HVStandalone

### Advanced Settings (Integration)

Enable Backup from Storage Snapshots	Yes
Limit processed VM count per Storage Snapshot	No
VM count per Storage Snapshot	10
Failover to Standard Backup	No
Failover to Primary Storage Snapshot	No

Table 291 - Advanced Settings (Integration) - HVCluster-To-HVStandalone

### Advanced Settings (Script)

Run the Following Script Before	Yes
Run Script Before the Job	presql.cmd
Run the Following Script After	Yes
Run Script After the Job	postsql.cmd
Run Script Frequency	Cycles
Run Script Every Backup Session	1

Table 292 - Advanced Settings (Script) - HVCluster-To-HVStandalone

### Data Transfer

Source Proxy	VEEAM-HVPRX-01V.pharmax.local
Target Proxy	VEEAM-HVPRX-01V.pharmax.local
Use Wan accelerator	Yes
Source Wan accelerator	VEEAM-VBR
Target Wan accelerator	VEEAM-WAN-01V.pharmax.local

Table 293 - Data Transfer - HVCluster-To-HVStandalone

### Seeding

Seed from Backup Repository	Linux - Hardened Repository
Map Replica to Existing VM	Yes

Table 294 - Seeding - HVCluster-To-HVStandalone

### Guest Processing

## Schedule

Retry Failed item	3
Wait before each retry	10/min
Backup Window	Yes
Schedule type	Monthly
Schedule Options	Day Of Month: 1, Day Number In Month: Fourth, Day Of Week: Saturday
Start Time	10:00 PM
Latest Run	01/01/0001 00:00:00

Table 295 - Schedule Options - HVCluster-To-HVStandalone

## Backup Window Time Period

### Permitted \ Denied

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 296 - Backup Window - HVCluster-To-HVStandalone

## 1.5.7 Tape Backup Jobs

The following section lists tape backup jobs created in Veeam Backup & Replication.

Name	Type	Latest Status	Target Repository
File to Tape Job - Data Share	File To Tape	Warning	Standard Media Pool [Oracle - Media Pool]
File to Tape Job - Server Share	File To Tape	Warning	Standard Media Pool [WORM Media Pool 1]
PHARMAX-HQ-SVR-TAPE	Backup To Tape	None	WORM GFS Media Pool 1

Table 297 - Backup Jobs - VEEAM-VBR

## 1.5.8 Backup To Tape Job Configuration

The following section details the configuration about the backup to tape jobs.

### 1.5.8.1 PHARMAX-HQ-SVR-TAPE

#### Backups Information

Name	PHARMAX-HQ-SVR-TAPE
------	---------------------

Type	BackupToTape
Total Backup Size	527 GB
Next Run	01/16/2024 09:00:00
Description	Created by PHARMAX\administrator at 6/29/2021 7:24 PM.

Table 298 - Common Information - PHARMAX-HQ-SVR-TAPE

**Health Check:**

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

**Backups Objects**

Name	Type	Size	Repository
Backup Job 8	Backup Job	26 MB	Wasabi OST
Gurabo PC - Backup Job	Backup Job	0 KB	SOBR - Minio
Linux Agent Backup Job	Backup Job	0 KB	Linux - Hardened Repository
PHARMAX-HQ-SVR	Backup Job	31 GB	SOBR - Minio
Server With Netapp LUNS - Backup	Backup Job	0 KB	SOBR - Minio
SOBR - Minio	Repository	497 GB	SOBR - Minio
WIN HyperV VM Backup	Backup Job	4 MB	SOBR - Minio

Table 299 - Backups Objects - PHARMAX-HQ-SVR-TAPE

**Media Pool**

Name	WORM GFS Media Pool 1
Pool Type	Gfs
Tape Count	5
Free Space	58 TB
Encryption Enabled	Yes
Encryption Key	Password Global
Parallel Processing	2 drives; Multiple Backup Chains: Yes
Is WORM	Yes
Daily	14 days; Use any available media; append; do not export
Weekly	4 days; Use any available media; do not append; do not export
Monthly	12 days; Use any available media; do not append; do not export
Quarterly	4 days; Use any available media; do not append; do not export
Yearly	1 days; Use any available media; do not append; do not export

Table 300 - Media Pool - PHARMAX-HQ-SVR-TAPE

**Options**

Eject Tape Media Upon Job Completion	Yes
--------------------------------------	-----

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Export the following MediaSet Upon Job Completion	Yes
Limit the number of drives this job can use	Enabled: Yes; Tape Drives Limit: 3

*Table 301 - Options - PHARMAX-HQ-SVR-TAPE*

### Advanced Settings (Notifications)

Send Email Notification	Yes
Email Notification Additional Recipients	veeam_admin@pharmax.local
Use Custom Notification Settings	Yes
Subject	[%JobResult%] %JobName% (%TapeCount% Tapes) %Issues%
Notify On Success	Yes
Notify On Warning	Yes
Notify On Error	Yes
Notify On Last Retry Only	Yes
Notify When Waiting For Tape	Yes

*Table 302 - Advanced Settings (Notifications) - PHARMAX-HQ-SVR-TAPE*

### Advanced Settings (Advanced)

Process the most recent Restore Point instead of waiting	Yes
Use Hardware Compression when available	Yes
Run the following script before job	c:\pretapebackup.bat
Run the following script after job	c:\posttapebackup.bat
Run Script Every Backup Session	Every 1 backup session

*Table 303 - Advanced Settings (Advanced) - PHARMAX-HQ-SVR-TAPE*

### Schedule

Prevent this job from being interrupted by source backup job	No
Perform GFS scan daily at	0:00:00
Daily backup	Everyday
Weekly backup	Wednesday 00:00:00
Monthly backup	Fourth Wednesday of the month
Quarterly backup	1 day of the Last month of the quarter
Yearly backup	1 day of May

*Table 304 - Schedule - PHARMAX-HQ-SVR-TAPE*

### 1.5.9 File To Tape Job Configuration

The following section details the configuration about file to tape jobs.

### 1.5.9.1 File to Tape Job - Data Share

#### Backups Information

Name	File to Tape Job - Data Share
Type	FileToTape
Next Run	01/16/2024 18:00:00
Description	Created by PHARMAX\jocolon at 1/8/2022 1:02 PM.

Table 305 - Common Information - File to Tape Job - Data Share

#### Health Check:

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

#### Files and Folders

Name	Type	Selection Type	Path	Include Filter	Exclude Filter
192.168.5.18:/oracle	NfsShare	Directory	nfs3://192.168.5.18:/oracle	--	*.odt
ONTAP-HQ-SAN-IC.pharmax.local	NDMP	Directory	/NAS-VEEAM/DATA	--	--

Table 306 - Files and Folders - File to Tape Job - Data Share

#### Full Backup

Name	Standard Media Pool
Pool Type	Custom
Tape Count	3
Capacity	35 TB
Remaining	35 TB
Is WORM	No
Schedule Enabled	Yes
Daily at this Time	18:00:00 - Monday, Tuesday, Wednesday, Thursday, Friday

Table 307 - Full Backup - File to Tape Job - Data Share

#### Incremental Backup

Name	Oracle - Media Pool
Pool Type	Custom
Tape Count	4
Capacity	24 TB
Remaining	24 TB
Is WORM	No
Schedule Enabled	Yes
Monthly at this Time	At 00:00:00, Monthly on the: Fourth Saturday of Every Month

Table 308 - Incremental Backup - File to Tape Job - Data Share

## Options

Use Microsoft volume shadow copy (VSS)	Yes
Eject Tape Media Upon Job Completion	Yes
Export the following MediaSet Upon Job Completion	Yes

Table 309 - Options - File to Tape Job - Data Share

## Advanced Settings (Notifications)

Send Email Notification	Yes
Email Notification Additional Recipients	admin@superdc.com,admin@netapp.com
Use Custom Notification Settings	Yes
Subject	[%JobResult%] %JobName% (%TapeCount% Tapes) %Issues%
Notify On Success	Yes
Notify On Warning	Yes
Notify On Error	Yes
Notify On Last Retry Only	Yes
Notify When Waiting For Tape	Yes

Table 310 - Advanced Settings (Notifications) - File to Tape Job - Data Share

## Advanced Settings (Advanced)

Use Hardware Compression when available	Yes
Run the following script before job	c:\pretest.exe
Run the following script after job	c:\posttest.exe
Run Script Every Backup Session	Every 4 backup session

Table 311 - Advanced Settings (Advanced) - File to Tape Job - Data Share

## 1.5.9.2 File to Tape Job - Server Share

### Backups Information

Name	File to Tape Job - Server Share
Type	FileToTape
Next Run	01/20/2024 18:00:00
Description	Created by PHARMAX\administrator at 2/26/2022 6:01 PM.

Table 312 - Common Information - File to Tape Job - Server Share

### Health Check:

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

### Files and Folders

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Name	Type	Selection Type	Path	Include Filter	Exclude Filter
\server-dc-01v\UEMConfig	CifsShare	Directory	\server-dc-01v\UEMConfig	--	--
server-dc-01v	Windows	Host	server-dc-01v	--	--
veeam-lnx-px.phamax.local	Linux	Directory	/home	--	--

Table 313 - Files and Folders - File to Tape Job - Server Share

Full Backup

Name	Standard Media Pool
Pool Type	Custom
Tape Count	3
Capacity	35 TB
Remaining	35 TB
Is WORM	No
Schedule Enabled	Yes
Daily at this Time	18:00:00 - Saturday

Table 314 - Full Backup - File to Tape Job - Server Share

Incremental Backup

Name	WORM Media Pool 1
Pool Type	Custom
Tape Count	5
Capacity	59 TB
Remaining	59 TB
Is WORM	Yes
Schedule Enabled	Yes
Monthly at this Time	At 00:00:00, Monthly on the: First Wednesday of January, February, March, April, May, June, July, August, September, October

Table 315 - Incremental Backup - File to Tape Job - Server Share

Options

Use Microsoft volume shadow copy (VSS)	Yes
Eject Tape Media Upon Job Completion	Yes
Export the following MediaSet Upon Job Completion	Yes

Table 316 - Options - File to Tape Job - Server Share

Advanced Settings (Notifications)

Send Email Notification	Yes
Email Notification Additional Recipients	admin@veeam.com

Use Custom Notification Settings	Yes
Subject	[%JobResult%] %JobName% (%TapeCount% Tapes) %Issues%
Notify On Success	Yes
Notify On Warning	Yes
Notify On Error	Yes
Notify On Last Retry Only	Yes
Notify When Waiting For Tape	Yes

Table 317 - Advanced Settings (Notifications) - File to Tape Job - Server Share

#### Advanced Settings (Advanced)

Use Hardware Compression when available	Yes
Pre Job Script Enabled	No
Post Job Script Enabled	No

Table 318 - Advanced Settings (Advanced) - File to Tape Job - Server Share

#### 1.5.10 SureBackup Jobs

The following section list surebackup jobs created in Veeam Backup & Replication.

Name	Status	Schedule Enabled	Latest Result	Virtual Lab
SureBackup Job 4	Enabled	Not Scheduled	None	
SureBackup Job 2	Enabled	Scheduled	None	
SureBackup Job 5	Enabled	Not Scheduled	None	PHARMAX-VLAB-HYPER-V
SureBackup Job 3	Enabled	Scheduled	None	PHARMAX-VLAB
SureBackup Job 1	Enabled	Scheduled	None	PHARMAX-VLAB

Table 319 - SureBackup Jobs - VEEAM-VBR

#### 1.5.11 SureBackup Job Configuration

The following section provide detailed jobs configuration about Surebackup.

##### 1.5.11.1 SureBackup Job 3

###### Common Information

Name	SureBackup Job 3
Last Run	12/26/2023 15:59:39
Next Run	01/27/2024 22:00:00
Description	Created by PHARMAX\administrator at 12/26/2023 3:59 PM.

Table 320 - Common Information - SureBackup Job 3

**Health Check:**

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

**Virtual Lab**

Name	PHARMAX-VLAB
Description	Created by PHARMAX\jocolon at 12/25/2021 6:02 PM.
Physical Host	esxsvr-00f.pharmax.local
Physical Host Version	VMware ESXi 8.0.2 build-22380479
Datastore	SSD-VM-HIGH-CAPACITY-PERF-KN

Table 321 - Virtual Lab - SureBackup Job 3

**Application Group**

Name	HV - APPGroup
Virtual Machines	WIN
Keep Application Group Running	No
Description	Created by PHARMAX\jocolon at 12/25/2021 9:53 PM.

Table 322 - Application Group - SureBackup Job 3

**Linked Jobs**

Name	Roles	Description
HyperV-Backup-Job	SQLServer,WebServer	Created by PHARMAX\administrator at 6/30/2021 10:02 PM.
PHARMAX-HQ-SVR	MailServer,WebServer	Created by PHARMAX\administrator at 6/29/2021 12:12 PM.

Table 323 - Linked Jobs - SureBackup Job 3

**Verification Options**

Job Name	HyperV-Backup-Job
Amount of memory to Allocate to VM	100 percent
Maximum allowed boot time	2100 sec
Application Initialization Timeout	120 sec
VM heartbeat is present	Yes
VM respond to ping on any interface	Yes
VM Role	WebServer, SQLServer
VM Test Script	Name: vmtest, Path: F:\Veeam_Scripts\vmtest.bat, Argument: -f -c
Credentials	Isilon Account

Table 324 - Verification Options - SureBackup Job 3

Job Name	PHARMAX-HQ-SVR
Amount of memory to Allocate to VM	100 percent
Maximum allowed boot time	2100 sec

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Application Initialization Timeout	120 sec
VM heartbeat is present	Yes
VM respond to ping on any interface	Yes
VM Role	WebServer, MailServer
VM Test Script	Name: vmtest, Path: F:\Veeam_Scripts\vmtest.bat, Argument:
Credentials	vCD administrator

Table 325 - Verification Options - SureBackup Job 3

### Per VM Verification Rules

VM Name	Excluded	VM Role	VM Test Script	Credentials
LNX-WEB-01	No	--	--	None

Table 326 - Per VM Verification Rules - SureBackup Job 3

### Settings

Backup file integrity scan	Yes
Skip validation for application group VM	Yes
Malware Scan	Yes
YARA Scan	No
YARA Rules	FindString.yara
Scan the entire image	Yes
Skip application group machine from malware scan	Yes
Send SNMP trap	Yes
Send Email notification	Yes
Email recipients	djsdjdj@gmail.com
Use custom notification settings	True
Custom Subject	[%JobResult%] %JobName% (%ObjectCount% objects) %Issues%
Notify On Success	True
Notify On Warning	False
Notify On Error	False

Table 327 - Settings - SureBackup Job 3

### Schedule

Wait for backup jobs	180 minutes
Run Automatically	Monthly at this time: 22:00:00, Days Number of Month: Fourth, Day Of Week: Saturday, Month: January February March April May June July August September October November December

Table 328 - Schedule - SureBackup Job 3

## 1.5.11.2 SureBackup Job 1

## Common Information

Name	SureBackup Job 1
Last Run	12/26/2023 15:54:51
Next Run	01/27/2024 22:00:00
Description	Created by PHARMAX\administrator at 12/26/2023 3:54 PM.

Table 329 - Common Information - SureBackup Job 1

## Health Check:

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

## Virtual Lab

Name	PHARMAX-VLAB
Description	Created by PHARMAX\jocolon at 12/25/2021 6:02 PM.
Physical Host	esxsvr-00f.pharmax.local
Physical Host Version	VMware ESXi 8.0.2 build-22380479
Datastore	SSD-VM-HIGH-CAPACITY-PERF-KN

Table 330 - Virtual Lab - SureBackup Job 1

## Application Group

Name	PHARMAX-AG
Virtual Machines	smallserver-01v, LINUX-VM
Keep Application Group Running	No
Description	Created by PHARMAX\administrator at 6/30/2021 6:35 PM.

Table 331 - Application Group - SureBackup Job 1

## Linked Jobs

Name	Roles	Description
SOBR - TEST	DNSServer,DomainController,Authoritative,GlobalCatalog,MailServer,SQLServer,VBO,WebServer	
COMP-CLUSTER-NFS	GlobalCatalog	Created by PHARMAX\administrator at 6/2/2021 8:15 PM.

Table 332 - Linked Jobs - SureBackup Job 1

## Verification Options

Job Name	SOBR - TEST
Amount of memory to Allocate to VM	100 percent
Maximum allowed boot time	7800 sec
Application Initialization Timeout	120 sec
VM heartbeat is present	Yes
VM respond to ping on any interface	Yes

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VM Role	DNSServer, DomainController, GlobalCatalog, MailServer, SQLServer, VBO, WebServer
VM Test Script	--
Credentials	None

Table 333 - Verification Options - SureBackup Job 1

Job Name	COMP-CLUSTER-NFS
Amount of memory to Allocate to VM	100 percent
Maximum allowed boot time	1800 sec
Application Initialization Timeout	120 sec
VM heartbeat is present	Yes
VM respond to ping on any interface	Yes
VM Role	GlobalCatalog
VM Test Script	--
Credentials	administrator@pharmax.local

Table 334 - Verification Options - SureBackup Job 1

Per VM Verification Rules

VM Name	Excluded	VM Role	VM Test Script	Credentials
LINUX-VM	No	DNSServer, WebServer	Name: vmtest,Path: F:\Veeam_Scripts\vmtest.bat,Argument: -f -p	backup_admin1
RocaWeb	No	DNSServer, DomainControllerA uthoritative, GlobalCatalog, MailServer, SQLServer, VBO, WebServer	--	admin netapp

Table 335 - Per VM Verification Rules - SureBackup Job 1

Settings

Backup file integrity scan	Yes
Skip validation for application group VM	Yes
Malware Scan	Yes
YARA Scan	Yes
YARA Rules	FindFileByHash.yara
Scan the entire image	Yes
Skip application group machine from malware scan	Yes
Send SNMP trap	Yes
Send Email notification	Yes
Email recipients	rebelinux@gmail.com
Use custom notification settings	False

Table 336 - Settings - SureBackup Job 1

## Schedule

Wait for backup jobs	180 minutes
Run Automatically	Monthly at this time: 22:00:00, Days Number of Month: Fourth, Day Of Week: Saturday, Month: January February March April May June July August September October November December

Table 337 - Schedule - SureBackup Job 1

### 1.5.11.3 SureBackup Job 5

#### Common Information

Name	SureBackup Job 5
Last Run	12/27/2023 11:35:36
Next Run	01/01/0001 00:00:00
Description	Created by PHARMAX\administrator at 12/27/2023 11:35 AM.

Table 338 - Common Information - SureBackup Job 5

#### Health Check:

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

#### Virtual Lab

Name	PHARMAX-VLAB-HYPER-V
Description	Created by PHARMAX\administrator at 3/6/2023 10:07 AM.
Physical Host	VEEAM-HV-03.pharmax.local
Physical Host Version	Microsoft Windows Server 2022 Datacenter Evaluation 64-bit (10.0.20348 build:20348)
Destination	C:\Veeam\VirtualLabs\PHARMAX-VLAB-HYPER-V

Table 339 - Virtual Lab - SureBackup Job 5

#### Application Group

Name	HV - APPGroup
Virtual Machines	WIN
Keep Application Group Running	No
Description	Created by PHARMAX\jocolon at 12/25/2021 9:53 PM.

Table 340 - Application Group - SureBackup Job 5

#### Linked Jobs

Name	Roles	Description
WIN HyperV VM Backup	Not Defined	Created by PHARMAX\jocolon at 12/26/2021 8:36 PM.

Table 341 - Linked Jobs - SureBackup Job 5

**Verification Options**

Job Name	WIN HyperV VM Backup
Amount of memory to Allocate to VM	100 percent
Maximum allowed boot time	600 sec
Application Initialization Timeout	120 sec
VM heartbeat is present	Yes
VM respond to ping on any interface	Yes
VM Role	--
VM Test Script	--
Credentials	None

Table 342 - Verification Options - SureBackup Job 5

**Settings**

Backup file integrity scan	Yes
Skip validation for application group VM	Yes
Malware Scan	Yes
YARA Scan	Yes
YARA Rules	FindFileByHash.yara
Scan the entire image	Yes
Skip application group machine from malware scan	Yes
Send SNMP trap	No
Send Email notification	No
Email recipients	
Use custom notification settings	False

Table 343 - Settings - SureBackup Job 5

**1.5.11.4 SureBackup Job 4****Common Information**

Name	SureBackup Job 4
Last Run	12/27/2023 00:18:15
Next Run	01/01/0001 00:00:00
Description	Created by PHARMAX\administrator at 12/27/2023 12:18 AM.

Table 344 - Common Information - SureBackup Job 4

**Health Check:**

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

**Linked Jobs**

Name	Roles	Description
Server With Netapp LUNS -	Not Defined	Created by PHARMAX\administrator at

Name	Roles	Description
Backup		3/1/2021 5:12 PM.

Table 345 - Linked Jobs - SureBackup Job 4

### Verification Options

Job Name	Server With Netapp LUNS - Backup
Amount of memory to Allocate to VM	100 percent
Maximum allowed boot time	600 sec
Application Initialization Timeout	120 sec
VM heartbeat is present	Yes
VM respond to ping on any interface	Yes
VM Role	--
VM Test Script	--
Credentials	None

Table 346 - Verification Options - SureBackup Job 4

### Settings

Backup file integrity scan	Yes
Skip validation for application group VM	Yes
Malware Scan	Yes
YARA Scan	No
YARA Rules	--
Scan the entire image	Yes
Skip application group machine from malware scan	Yes
Send SNMP trap	No
Send Email notification	Yes
Email recipients	eefef@microsoft.com
Use custom notification settings	False

Table 347 - Settings - SureBackup Job 4

### 1.5.11.5 SureBackup Job 2

#### Common Information

Name	SureBackup Job 2
Last Run	12/26/2023 15:58:53
Next Run	01/01/0001 00:00:00
Description	Created by PHARMAX\administrator at 12/26/2023 3:58 PM.

Table 348 - Common Information - SureBackup Job 2

#### Health Check:

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

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### Linked Jobs

Name	Roles	Description
WIN HyperV VM Backup	Not Defined	Created by PHARMAX\jocolon at 12/26/2021 8:36 PM.

Table 349 - Linked Jobs - SureBackup Job 2

### Verification Options

Job Name	WIN HyperV VM Backup
Amount of memory to Allocate to VM	100 percent
Maximum allowed boot time	600 sec
Application Initialization Timeout	120 sec
VM heartbeat is present	Yes
VM respond to ping on any interface	Yes
VM Role	--
VM Test Script	--
Credentials	None

Table 350 - Verification Options - SureBackup Job 2

### Settings

Backup file integrity scan	Yes
Skip validation for application group VM	Yes
Malware Scan	No
YARA Scan	Yes
YARA Rules	FindString.yara
Scan the entire image	Yes
Skip application group machine from malware scan	Yes
Send SNMP trap	Yes
Send Email notification	Yes
Email recipients	csssc@gmail.com
Use custom notification settings	True
Custom Subject	[%JobResult%] %JobName% (%ObjectCount% objects) %Issues%
Notify On Success	False
Notify On Warning	True
Notify On Error	True

Table 351 - Settings - SureBackup Job 2

### Schedule

Wait for backup jobs	180 minutes
Run Automatically	After Job: Backup - Replicated VM - Cloud Virtualdcs

Table 352 - Schedule - SureBackup Job 2

### 1.5.12 Agent Backup Jobs

The following section lists agent backup jobs created in Veeam Backup & Replication.

Name	Type	OS Platform	Backup Object
Agent Backup Job 3	FailoverCluster	Windows	Server with Netapp LUNS
Agent Backup Policy 2	Server	Linux	Linux Protection Group
Gurabo PC - Backup Job	Workstation	Windows	Gurabo PC - Backup HQ - Manual Packet
Linux Agent Backup Job	Server	Linux	Linux Protection Group
Server With Netapp LUNS - Backup	Server	Windows	Server with Netapp LUNS server-dc-01v.pharmax.local

Table 353 - Agent Backup Jobs - VEEAM-VBR

### 1.5.13 Agent Backup Jobs Configuration

The following section details agent backup jobs configuration created in Veeam Backup & Replication.

#### 1.5.13.1 Agent Backup Job 3

##### Job Mode

Name	Agent Backup Job 3
Id	68ab65f1-235a-42b4-a1ae-7582951e0a99
Type	FailoverCluster
Mode	Managed by Backup Server
Description	Created by PHARMAX\administrator at 5/2/2022 10:18 PM.
Priority	Normal Priority

Table 354 - Job Mode - Agent Backup Job 3

##### Health Check:

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

##### Protected Computers

Name	Type	Enabled	Container
Server with Netapp LUNS	Custom	Yes	Active Directory

Table 355 - Protected Computers - Agent Backup Job 3

##### Backup Mode

Backup Mode	Entire Computer
Include external USB drives	No

Table 356 - Backup Mode - Agent Backup Job 3

##### Storage

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Backup Repository	SOBR - Minio
Repository Type	ExtendableRepository
Retention Policy	Restore Days
Retain Days To Keep	7
Configure Secondary Destination for this Job	Yes
Keep certain full backup longer for archival purposes (GFS)	Yes
Keep Weekly full backup for	1 weeks, If multiple backup exist use the one from: Sunday
Keep Monthly full backup for	1 months, Use weekly full backup from the following week of the month: First
Keep Yearly full backup for	1 years, Use monthly full backup from the following month: January

Table 357 - Destination - Agent Backup Job 3

#### Secondary Target

Job Name	Type	State	Description
Hyper-V-Backup-Copy\Agent Backup Job 3	Windows Backup Copy	None	
Backup Copy Job 4	Backup Copy	Failed	Created by PHARMAX\administrator at 7/7/2023 5:01 PM.
Backup Copy Job 4\Agent Backup Job 3	Windows Backup Copy	Failed	

Table 358 - Secondary Destination Job - Agent Backup Job 3

#### Advanced Settings (Backup)

Syntetic Full Backup	Yes
Create Syntetic on Days	Saturday
Active Full Backup	No

Table 359 - Advanced Settings (Backup) - Agent Backup Job 3

#### Advanced Settings (Maintenance)

Storage-Level Corruption Guard (SLCG)	No
Defragment and Compact Full Backup (DCFB)	No

Table 360 - Advanced Settings (Maintenance) - Agent Backup Job 3

#### Health Check:

**Best Practice:** It is recommended to use storage-level corruption guard for any backup job with no active full backups scheduled. Synthetic full backups are still 'incremental forever' and may suffer from corruption over time. Storage-level corruption guard was introduced to provide a greater level of confidence in integrity of the backups.

#### Advanced Settings (Storage)

Compression Level	Optimal
Storage optimization	LocalTarget
Enabled Backup File Encryption	No
Encryption Key	None

Table 361 - Advanced Settings (Storage) - Agent Backup Job 3

#### Health Check:

**Best Practice:** Backup and replica data is a high potential source of vulnerability. To secure data stored in backups and replicas, use Veeam Backup & Replication inbuilt encryption to protect data in backups

#### Advanced Settings (Notification)

Send Snmp Notification	Yes
Send Email Notification	No

Table 362 - Advanced Settings (Notification) - Agent Backup Job 3

#### Advanced Settings (Integration)

Enable Backup from Storage Snapshots	Yes
Failover to On-Host Backup agent	Yes
Off-host Backup Proxy Automatic Selection	Yes

Table 363 - Advanced Settings (Integration) - Agent Backup Job 3

#### Advanced Settings (Script)

Run the Following Script Before	No
Run the Following Script After	No

Table 364 - Advanced Settings (Script) - Agent Backup Job 3

#### Guest Processing

Enabled Application Process Processing	Yes
Enabled Guest File System Indexing	No

Table 365 - Guest Processing Options - Agent Backup Job 3

#### Schedule

Retry Failed item	3
Wait before each retry	10/min
Backup Window	Yes
Schedule type	After Job
Schedule Options	COMP-CLUSTER-NFS

Table 366 - Schedule Options - Agent Backup Job 3

#### Backup Window Time Period

#### Permitted \ Denied

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 367 - Backup Window - Agent Backup Job 3

#### 1.5.13.2 Agent Backup Policy 2

##### Job Mode

Name	Agent Backup Policy 2
Id	48c82831-c4c7-460c-ba64-8871e9b563f6
Type	Server
Mode	Managed by Agent
Description	Created by PHARMAX\administrator at 5/2/2022 10:04 PM.
Priority	Normal Priority

Table 368 - Job Mode - Agent Backup Policy 2

##### Health Check:

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

##### Protected Computers

Name	Type	Enabled	Container
Linux Protection Group	Custom	Yes	Individual Computers

Table 369 - Protected Computers - Agent Backup Policy 2

##### Backup Mode

Backup Mode	Entire Computer
Include external USB drives	No

Table 370 - Backup Mode - Agent Backup Policy 2

##### Destination

Destination Type	Veeam Backup Repository
Retention Policy	Restore Points
Retain Points	7
Configure Secondary Destination for this Job	Yes
Backup Server	VEEAM-VBR.pharmax.local
Backup Repository	SOBR - Minio

*Table 371 - Destination - Agent Backup Policy 2***Secondary Target**

Job Name	Type	State	Description
Backup Copy Job 5	Backup Copy	Failed	Created by PHARMAX\administrator at 7/9/2023 8:49 PM.
Hyper-V-Backup-Copy\Agent Backup Policy 2	Linux Backup Copy	None	
Backup Copy Job 5\Agent Backup Policy 2	Linux Backup Copy	Failed	

*Table 372 - Secondary Destination Job - Agent Backup Policy 2***Advanced Settings (Backup)**

Syntetic Full Backup	--
Active Full Backup	No

*Table 373 - Advanced Settings (Backup) - Agent Backup Policy 2***Advanced Settings (Maintenance)**

Storage-Level Corruption Guard (SLCG)	No
Defragment and Compact Full Backup (DCFB)	--

*Table 374 - Advanced Settings (Maintenance) - Agent Backup Policy 2***Health Check:**

**Best Practice:** It is recommended to use storage-level corruption guard for any backup job with no active full backups scheduled. Synthetic full backups are still 'incremental forever' and may suffer from corruption over time. Storage-level corruption guard was introduced to provide a greater level of confidence in integrity of the backups.

**Advanced Settings (Storage)**

Compression Level	Optimal
Storage optimization	LocalTarget
Enabled Backup File Encryption	No
Encryption Key	None

*Table 375 - Advanced Settings (Storage) - Agent Backup Policy 2***Health Check:**

**Best Practice:** Backup and replica data is a high potential source of vulnerability. To secure data stored in backups and replicas, use Veeam Backup & Replication inbuilt encryption to protect data in backups

**Advanced Settings (Notification)**

Send Snmp Notification	--
Send Email Notification	--

*Table 376 - Advanced Settings (Notification) - Agent Backup Policy 2*

### Guest Processing

Enabled Application Process Processing	Yes
Enabled Guest File System Indexing	Yes

Table 377 - Guest Processing Options - Agent Backup Policy 2

### Schedule

Schedule type	Monthly
Schedule Options	Day Of Month: 1, Day Number In Month: Third, Day Of Week: Sunday At: 22:00:00
If Computer is Power Off Action	--
Once Backup is Taken	--
Backup At LogOff	--
Backup At Lock	--
Backup At Target Connection	--
Eject Storage After Backup	--
Backup Timeout	--

Table 378 - Schedule Options - Agent Backup Policy 2

### 1.5.13.3 Gurabo PC - Backup Job

#### Job Mode

Name	Gurabo PC - Backup Job
Id	cc087b1f-629d-4890-ab02-30c6cba80e11
Type	Workstation
Mode	Managed by Agent
Description	Created by PHARMAX\administrator at 4/28/2022 3:19 PM.
Priority	Normal Priority

Table 379 - Job Mode - Gurabo PC - Backup Job

#### Health Check:

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

#### Protected Computers

Name	Type	Enabled	Container
Gurabo PC - Backup	Custom	Yes	Active Directory
HQ - Manual Packet	Custom	Yes	Manually Deployed

Table 380 - Protected Computers - Gurabo PC - Backup Job

#### Backup Mode

Veeam Backup & Replication As Built Report - v1.0

Backup Mode	Entire Computer
Include external USB drives	No

Table 381 - Backup Mode - Gurabo PC - Backup Job

Destination

Destination Type	Veeam Backup Repository
Retention Policy	Restore Days
Retain Days To Keep	7
Configure Secondary Destination for this Job	Yes
Backup Server	VEEAM-VBR.pharmax.local
Backup Repository	SOBR - Minio

Table 382 - Destination - Gurabo PC - Backup Job

Secondary Target

Job Name	Type	State	Description
Backup Copy Job 4	Backup Copy	Failed	Created by PHARMAX\administrator at 7/7/2023 5:01 PM.
Hyper-V-Backup-Copy\Gurabo PC - Backup Job	Windows Backup Copy	None	
Backup Copy Job 4\Gurabo PC - Backup Job	Windows Backup Copy	Failed	
PHARMAX-HQ-SVR-TAPE	Backup to Tape	Warning	Created by PHARMAX\administrator at 6/29/2021 7:24 PM.

Table 383 - Secondary Destination Job - Gurabo PC - Backup Job

Advanced Settings (Backup)

Syntetic Full Backup	No
Active Full Backup	No

Table 384 - Advanced Settings (Backup) - Gurabo PC - Backup Job

Advanced Settings (Maintenance)

Storage-Level Corruption Guard (SLCG)	Yes
SLCG Schedule Type	Monthly
SLCG Schedule Day	Friday Saturday Sunday
SLCG Backup Monthly Schedule	Day Of Week: Friday Day Number In Month: Third Day of Month: 1 Months: January February March April May June July August September October November December

Defragment and Compact Full Backup (DCFB)	Yes
DCFB Schedule Type	Monthly
DCFB Schedule Day	Thursday Friday Saturday
DCFB Backup Monthly Schedule	Day Of Week: Saturday Day Number In Month: Last Day of Month: 1 Months: January February March April May June July August September October November December

Table 385 - Advanced Settings (Maintenance) - Gurabo PC - Backup Job

#### Advanced Settings (Storage)

Compression Level	Optimal
Storage optimization	LocalTarget
Enabled Backup File Encryption	Yes
Encryption Key	Password Global

Table 386 - Advanced Settings (Storage) - Gurabo PC - Backup Job

#### Advanced Settings (Notification)

Send Snmp Notification	--
Send Email Notification	--

Table 387 - Advanced Settings (Notification) - Gurabo PC - Backup Job

#### Backup Cache

Maximun Size	Type	Path
10 GB	Automatic	Auto Selected

Table 388 - Backup Cache - Gurabo PC - Backup Job

#### Schedule

Schedule type	Daily
Schedule Options	Recurrence: WeekDays, Days: Monday Tuesday Wednesday Thursday Friday At: 22:00:00
If Computer is Power Off Action	Backup At Power On
Once Backup is Taken	Keep Running
Backup At LogOff	Yes
Backup At Lock	No
Backup At Target Connection	Yes
Eject Storage After Backup	Yes
Backup Timeout	2 Hour

Table 389 - Schedule Options - Gurabo PC - Backup Job

### 1.5.13.4 Linux Agent Backup Job

#### Job Mode

Name	Linux Agent Backup Job
Id	190c96cd-7b9a-48f4-82af-3dbc4f00dbe3
Type	Server
Mode	Managed by Backup Server
Description	Created by PHARMAX\administrator at 4/29/2022 8:11 PM.
Priority	Normal Priority

Table 390 - Job Mode - Linux Agent Backup Job

#### Health Check:

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

#### Protected Computers

Name	Type	Enabled	Container
Linux Protection Group	Custom	Yes	Individual Computers

Table 391 - Protected Computers - Linux Agent Backup Job

#### Backup Mode

Backup Mode	Entire Computer
Include external USB drives	No

Table 392 - Backup Mode - Linux Agent Backup Job

#### Storage

Backup Repository	Linux - Hardened Repository
Repository Type	LinuxLocal
Retention Policy	Restore Days
Retain Days To Keep	7
Configure Secondary Destination for this Job	Yes
Keep certain full backup longer for archival purposes (GFS)	Yes
Keep Weekly full backup for	1 weeks, If multiple backup exist use the one from: Sunday
Keep Monthly full backup for	1 months, Use weekly full backup from the following week of the month: First
Keep Yearly full backup for	1 years, Use monthly full backup from the following month: January

Table 393 - Destination - Linux Agent Backup Job

#### Secondary Target

Veeam Backup & Replication As Built Report - v1.0

Job Name	Type	State	Description
PHARMAX-HQ-SVR-TAPE	Backup to Tape	Warning	Created by PHARMAX\administrator at 6/29/2021 7:24 PM.

Table 394 - Secondary Destination Job - Linux Agent Backup Job

Advanced Settings (Backup)

Syntetic Full Backup	Yes
Create Syntetic on Days	Saturday
Active Full Backup	No

Table 395 - Advanced Settings (Backup) - Linux Agent Backup Job

Advanced Settings (Maintenance)

Storage-Level Corruption Guard (SLCG)	No
Defragment and Compact Full Backup (DCFB)	No

Table 396 - Advanced Settings (Maintenance) - Linux Agent Backup Job

Health Check:

**Best Practice:** It is recommended to use storage-level corruption guard for any backup job with no active full backups scheduled. Synthetic full backups are still 'incremental forever' and may suffer from corruption over time. Storage-level corruption guard was introduced to provide a greater level of confidence in integrity of the backups.

Advanced Settings (Storage)

Compression Level	Optimal
Storage optimization	LocalTarget
Enabled Backup File Encryption	No
Encryption Key	None

Table 397 - Advanced Settings (Storage) - Linux Agent Backup Job

Health Check:

**Best Practice:** Backup and replica data is a high potential source of vulnerability. To secure data stored in backups and replicas, use Veeam Backup & Replication inbuilt encryption to protect data in backups

Advanced Settings (Notification)

Send Snmp Notification	No
Send Email Notification	No

Table 398 - Advanced Settings (Notification) - Linux Agent Backup Job

Advanced Settings (Script)

Run the Following Script Before	Yes
Run the Following Script After	Yes

## Veeam Backup & Replication As Built Report - v1.0

Run Script Before the Job	pre_mysql.sh
Run Script After the Job	post_mysql.sh
Run Script Frequency	Days
Run Script on the Selected Days	Saturday,Sunday

*Table 399 - Advanced Settings (Script) - Linux Agent Backup Job*

### Schedule

Retry Failed item	3
Wait before each retry	10/min
Backup Window	Yes
Schedule type	Daily
Schedule Options	Recurrence: WeekDays, Days: Monday Tuesday Wednesday Thursday Friday At: 22:00:00

*Table 400 - Schedule Options - Linux Agent Backup Job*

### Backup Window Time Period

#### Permitted \ Denied

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 401 - Backup Window - Linux Agent Backup Job*

### 1.5.13.5 Server With Netapp LUNS - Backup

#### Job Mode

Name	Server With Netapp LUNS - Backup
Id	b4f0ac88-76ab-4c61-b142-0cff89ec91f2
Type	Server
Mode	Managed by Backup Server
Description	Created by PHARMAX\administrator at 3/1/2021 5:12 PM.
Priority	Normal Priority

*Table 402 - Job Mode - Server With Netapp LUNS - Backup*

#### Health Check:

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

#### Protected Computers

Veeam Backup & Replication As Built Report - v1.0

Name	Type	Enabled	Container
Server with Netapp LUNS	Custom	Yes	Active Directory
server-dc-01v.pharmax.local	Computer	--	Individual Computer

Table 403 - Protected Computers - Server With Netapp LUNS - Backup

Backup Mode

Backup Mode	Entire Computer
Include external USB drives	No

Table 404 - Backup Mode - Server With Netapp LUNS - Backup

Storage

Backup Repository	SOBR - Minio
Repository Type	ExtendableRepository
Retention Policy	Restore Points
Restore Points	8
Configure Secondary Destination for this Job	Yes
Keep certain full backup longer for archival purposes (GFS)	Yes
Keep Weekly full backup for	1 weeks, If multiple backup exist use the one from: Sunday
Keep Monthly full backup for	1 months, Use weekly full backup from the following week of the month: First
Keep Yearly full backup for	1 years, Use monthly full backup from the following month: January

Table 405 - Destination - Server With Netapp LUNS - Backup

Secondary Target

Job Name	Type	State	Description
PHARMAX-HQ-SVR-TAPE	Backup to Tape	Warning	Created by PHARMAX\administrator at 6/29/2021 7:24 PM.
Hyper-V-Backup-Copy\Server With Netapp LUNS - Backup	Windows Backup Copy	None	

Table 406 - Secondary Destination Job - Server With Netapp LUNS - Backup

Advanced Settings (Backup)

Syntetic Full Backup	Yes
Create Syntetic on Days	Saturday
Active Full Backup	No

Table 407 - Advanced Settings (Backup) - Server With Netapp LUNS - Backup

**Advanced Settings (Maintenance)**

Storage-Level Corruption Guard (SLCG)	No
Defragment and Compact Full Backup (DCFB)	No

Table 408 - Advanced Settings (Maintenance) - Server With Netapp LUNS - Backup

**Health Check:**

**Best Practice:** It is recommended to use storage-level corruption guard for any backup job with no active full backups scheduled. Synthetic full backups are still 'incremental forever' and may suffer from corruption over time. Storage-level corruption guard was introduced to provide a greater level of confidence in integrity of the backups.

**Advanced Settings (Storage)**

Compression Level	Optimal
Storage optimization	LocalTarget
Enabled Backup File Encryption	No
Encryption Key	None

Table 409 - Advanced Settings (Storage) - Server With Netapp LUNS - Backup

**Health Check:**

**Best Practice:** Backup and replica data is a high potential source of vulnerability. To secure data stored in backups and replicas, use Veeam Backup & Replication inbuilt encryption to protect data in backups

**Advanced Settings (Notification)**

Send Snmp Notification	Yes
Send Email Notification	Yes
Email Notification Additional Addresses	rebelinux@gmail.com
Use Custom Email Notification Options	Yes
Use Custom Notification Setting	[%JobResult%] %JobName% (%ObjectCount% machines) %Issues%
Notify On Success	Yes
Notify On Warning	Yes
Notify On Error	No
Suppress Notification until Last Retry	No

Table 410 - Advanced Settings (Notification) - Server With Netapp LUNS - Backup

**Advanced Settings (Integration)**

Enable Backup from Storage Snapshots	Yes
Failover to On-Host Backup agent	Yes
Off-host Backup Proxy Automatic Selection	No
Off-host Backup Proxy Server	VEEAM-VBR-02V.pharmax.local

*Table 411 - Advanced Settings (Integration) - Server With Netapp LUNS - Backup*

#### Advanced Settings (Script)

Run the Following Script Before	Yes
Run the Following Script After	Yes
Run Script Before the Job	sql_pre.cmd
Run Script After the Job	sql_post.cmd
Run Script Frequency	Cycles
Run Script Every Backup Session	1

*Table 412 - Advanced Settings (Script) - Server With Netapp LUNS - Backup*

#### Guest Processing

Enabled Application Process Processing	Yes
Enabled Guest File System Indexing	No

*Table 413 - Guest Processing Options - Server With Netapp LUNS - Backup*

#### Schedule

Retry Failed item	3
Wait before each retry	1/min
Backup Window	Yes
Schedule type	After Job
Schedule Options	COMP-CLUSTER-NFS

*Table 414 - Schedule Options - Server With Netapp LUNS - Backup*

#### Backup Window Time Period

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 415 - Backup Window - Server With Netapp LUNS - Backup*

#### 1.5.14 Unstructured Data Backup Jobs

The following section list unstructured data backup jobs created in Veeam Backup & Replication.

Name	Type	Status	Latest Result	Last Run
File Backup Job 1	File Backup	Enabled	Failed	01/14/2024 22:50:54

## Veeam Backup & Replication As Built Report - v1.0

Name	Type	Status	Latest Result	Last Run
Object Storage Backup Job 1	Object Storage Backup	Enabled	None	Unknown
Server - Share Backup	File Backup	Enabled	Failed	01/07/2024 12:35:44

Table 416 - Unstructured Data Backup Jobs - VEEAM-VBR

### 1.5.15 Unstructured Data Backup Jobs Configuration

The following section details the information of unstructured data backup jobs configuration.

#### 1.5.15.1 Server - Share Backup

##### Common Information

Name	Server - Share Backup
Type	File Backup
Total Backup Size	0 KB
Target Address	
Target File	Server - Share Backup
Description	Created by PHARMAX\administrator at 9/16/2022 7:02 PM.
Modified By	PHARMAX\administrator

Table 417 - Common Information - Server - Share Backup

##### Health Check:

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

##### Files and Folders

Name	\server-dc-01\UEMConfig
Resource Type	
Role	Include
Location	\server-dc-01\UEMConfig
Approx Size	0 B
File Filter Include Masks	
File Filter Exclude Masks	<NasBackupMasks><NasBackupMask Type="Path" Path=".snapshot" /><NasBackupMask Type="Path" Path="\server-dc-01\UEMConfig.snapshot" /><NasBackupMask Type="Path" Path="\server-dc-01\UEMConfig\~snapshot" /><NasBackupMask Type="Path" Path="\~snapshot" /></NasBackupMasks>

Table 418 - Files and Folders - \server-dc-01\UEMConfig

##### Storage

Backup Repository	SOBR - Minio
Keep all file versions for the last	28 Day

*Table 419 - Storage Options - Server - Share Backup*

#### Advanced Settings (Object Version)

File version to keep	Keep all file versions
----------------------	------------------------

*Table 420 - Advanced Settings (Object Version) - Server - Share Backup*

#### Advanced Settings (ACL Handling)

Permissions and attribute backup	Folder-level only (recommended)
----------------------------------	---------------------------------

*Table 421 - Advanced Settings (acl handling) - Server - Share Backup*

#### Advanced Settings (Storage)

Inline Data Deduplication	Yes
Compression Level	OPTIMAL (Default)
Enabled Backup File Encryption	No
Encryption Key	None

*Table 422 - Advanced Settings (Storage) - Server - Share Backup*

#### Advanced Settings (Maintenance)

Storage-Level Corruption Guard (SLCG)	Yes
SLCG Schedule Type	Monthly
SLCG Backup Monthly Schedule	Day Of Week: Friday Day Number In Month: Last Day of Month: 1 Months: January February March April May June July August September October November December

*Table 423 - Advanced Settings (Maintenance) - Server - Share Backup*

#### Advanced Settings (Notification)

Send Snmp Notification	Yes
Send Email Notification	Yes
Email Notification Additional Addresses	rebelinux@gmail.com
Email Notify Time	10:00 PM
Use Custom Email Notification Options	No
Use Custom Notification Setting	[%JobResult%] %JobName% (%ObjectCount% objects) %Issues%
Notify On Success	Yes
Notify On Warning	Yes
Notify On Error	Yes
Suppress Notification until Last Retry	Yes
Set Results To Vm Notes	No
VM Attribute Note Value	Notes
Append to Existing Attribute	Yes

*Table 424 - Advanced Settings (Notification) - Server - Share Backup*

#### Advanced Settings (Script)

Run the Following Script Before	Yes
Run Script Before the Job	test.cmd
Run the Following Script After	No
Run Script After the Job	
Run Script Frequency	Days
Run Script on the Selected Days	Saturday

Table 425 - Advanced Settings (Script) - Server - Share Backup

#### Archive Repository

Backup Repository	HQ - Backups
Type	WinLocal
FriendlyPath	E:\Backups
Archive previous version for	3 Yearly
File to archive	All
Description	Created by PHARMAX\administrator at 7/16/2022 9:57 PM.

Table 426 - Archive Repository - Server - Share Backup

#### Schedule

Retry Failed item	3
Wait before each retry	10/min
Backup Window	Yes
Schedule type	Monthly
Schedule Options	Day Of Month: 1, Day Number In Month: Fourth, Day Of Week: Saturday
Start Time	10:00 PM
Latest Run	12/23/2023 22:00:02

Table 427 - Schedule Options - Server - Share Backup

#### Backup Window Time Period

##### Permitted \ Denied

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 428 - Backup Window - Server - Share Backup

### 1.5.15.2 Object Storage Backup Job 1

#### Common Information

Name	Object Storage Backup Job 1
Type	Object Storage Backup
Total Backup Size	0 KB
Target Address	E:\Backups
Target File	Object Storage Backup Job 1
Description	Created by PHARMAX\administrator at 12/26/2023 12:36 PM.
Modified By	PHARMAX\administrator

Table 429 - Common Information - Object Storage Backup Job 1

#### Health Check:

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

#### Objects

Name	Path	Container	Inclusion Mask	Exclusion Mask
AWSS3	--	--	--	*/Veeam
AZUREBlob	--	--	--	*/Veeam
OBJStorage	--	minio-enc-data	--	minio-enc-data/ Veeam
OBJStorage	--	vbo-container	--	vbo-container/ Veeam
OBJStorage	Veeam/Archive/ Backups/55f0a923- c13b-435d-8228- a508f55f87dc/ 93d5fb9a-791f- b545-73da- 1a8482c338a9	veeamv10	--	--

Table 430 - Objects -

#### Storage

Backup Repository	HQ - Backups
Keep all file versions for the last	28 Day

Table 431 - Storage Options - Object Storage Backup Job 1

#### Advanced Settings (Object Version)

File version to keep	Keep all file versions
----------------------	------------------------

Table 432 - Advanced Settings (Object Version) - Object Storage Backup Job 1

#### Advanced Settings (Storage)

Veeam Backup & Replication As Built Report - v1.0

Inline Data Deduplication	Yes
Compression Level	OPTIMAL (Default)
Enabled Backup File Encryption	Yes
Encryption Key	Password Global

Table 433 - Advanced Settings (Storage) - Object Storage Backup Job 1

Advanced Settings (Maintenance)

Storage-Level Corruption Guard (SLCG)	Yes
SLCG Schedule Type	Monthly
SLCG Backup Monthly Schedule	Day Of Week: Saturday Day Number In Month: Last Day of Month: 1 Months: January February March April May June July August September October November December

Table 434 - Advanced Settings (Maintenance) - Object Storage Backup Job 1

Advanced Settings (Notification)

Send Snmp Notification	Yes
Send Email Notification	Yes
Email Notification Additional Addresses	jcolonf@zenprsolutions.com
Email Notify Time	10:00 PM
Use Custom Email Notification Options	No
Use Custom Notification Setting	[%JobResult%] %JobName% (%ObjectCount% objects) %Issues%
Notify On Success	Yes
Notify On Warning	Yes
Notify On Error	Yes
Suppress Notification until Last Retry	Yes
Set Results To Vm Notes	No
VM Attribute Note Value	Notes
Append to Existing Attribute	Yes

Table 435 - Advanced Settings (Notification) - Object Storage Backup Job 1

Advanced Settings (Script)

Run the Following Script Before	Yes
Run Script Before the Job	pre.bat
Run the Following Script After	Yes
Run Script After the Job	post.bat
Run Script Frequency	Cycles
Run Script Every Backup Session	1

Table 436 - Advanced Settings (Script) - Object Storage Backup Job 1

Archive Repository

## Veeam Backup & Replication As Built Report - v1.0

Backup Repository	Linux - Hardened Repository
Type	LinuxLocal
FriendlyPath	/backup_data/backups
Archive previous version for	3 Yearly
File to archive	ExclusionMask
Exclusion Mask	*.doc
Description	Created by PHARMAX\jocolon at 12/28/2021 1:25 PM.

Table 437 - Archive Repository - Object Storage Backup Job 1

### Secondary Target

Job Name	Type	State	Description
Object Storage Backup Job 1 (Copy) 1	Backup Copy	None	

Table 438 - Secondary Destination Jobs - Object Storage Backup Job 1

### Schedule

Retry Failed item	3
Wait before each retry	10/min
Backup Window	No
Schedule type	Daily
Schedule Options	Kind: Everyday, Days: Sunday Monday Tuesday Wednesday Thursday Friday Saturday
Start Time	10:00 PM
Latest Run	01/01/0001 00:00:00

Table 439 - Schedule Options - Object Storage Backup Job 1

### 1.5.15.3 File Backup Job 1

#### Common Information

Name	File Backup Job 1
Type	File Backup
Total Backup Size	0 KB
Target Address	
Target File	File Backup Job 1
Description	Created by PHARMAX\jocolon at 1/8/2022 8:31 PM.
Modified By	PHARMAX\administrator

Table 440 - Common Information - File Backup Job 1

#### Health Check:

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

#### Files and Folders

Veeam Backup & Replication As Built Report - v1.0

Name	ONTAP-HQ-SAN
Resource Type	Host
Role	Include
Location	ONTAP-HQ-SAN
Approx Size	0 B
File Filter Include Masks	<NasBackupMasks><NasBackupMask Type="FileWildcard" Wildcard="*.*" /><NasBackupMask Type="FileWildcard" Wildcard="*.doc" /></NasBackupMasks>
File Filter Exclude Masks	<NasBackupMasks><NasBackupMask Type="Path" Path="*/.snapshot" /><NasBackupMask Type="Path" Path="*/~/snapshot" /><NasBackupMask Type="Path" Path="*\.\snapshot" /><NasBackupMask Type="Path" Path="*~\snapshot" /><NasBackupMask Type="Path" Path="/.snapshot" /><NasBackupMask Type="Path" Path="/~/snapshot" /><NasBackupMask Type="Path" Path="\.\snapshot" /><NasBackupMask Type="Path" Path="~snapshot" /><NasBackupMask Type="Path" Path="\\admin\$" /><NasBackupMask Type="Path" Path="\\C\$" /><NasBackupMask Type="Path" Path="\\ipc\$" /><NasBackupMask Type="FileWildcard" Wildcard="*.tmp" /></NasBackupMasks>

Table 441 - Files and Folders - ONTAP-HQ-SAN

Name	PHARMAX-ISILON
Resource Type	Host
Role	Include
Location	PHARMAX-ISILON
Approx Size	0 B
File Filter Include Masks	<NasBackupMasks><NasBackupMask Type="FileWildcard" Wildcard="*.*" /></NasBackupMasks>
File Filter Exclude Masks	<NasBackupMasks><NasBackupMask Type="Path" Path="*/.snapshot" /><NasBackupMask Type="Path" Path="*/~/snapshot" /><NasBackupMask Type="Path" Path="*\.\snapshot" /><NasBackupMask Type="Path" Path="*~\snapshot" /><NasBackupMask Type="Path" Path="/.snapshot" /><NasBackupMask Type="Path" Path="/~/snapshot" /><NasBackupMask Type="Path" Path="\.\snapshot" /><NasBackupMask Type="Path" Path="~snapshot" /><NasBackupMask Type="Path" Path="\\admin\$" /><NasBackupMask Type="Path" Path="\\C\$" /><NasBackupMask Type="Path" Path="\\ipc\$" /></NasBackupMasks>

Table 442 - Files and Folders - PHARMAX-ISILON

## Storage

Backup Repository	SOBR - Minio
Keep all file versions for the last	28 Day

Table 443 - Storage Options - File Backup Job 1

## Advanced Settings (Object Version)

Veeam Backup & Replication As Built Report - v1.0

File version to keep	Limit the number of both recent and archived file versions
Active file version limit	10
Delete file version limit	3

Table 444 - Advanced Settings (Object Version) - File Backup Job 1

Advanced Settings (ACL Handling)

Permissions and attribute backup	File and folders (slower)
----------------------------------	---------------------------

Table 445 - Advanced Settings (acl handling) - File Backup Job 1

Advanced Settings (Storage)

Inline Data Deduplication	Yes
Compression Level	OPTIMAL (Default)
Enabled Backup File Encryption	Yes
Encryption Key	Password Global

Table 446 - Advanced Settings (Storage) - File Backup Job 1

Advanced Settings (Maintenance)

Storage-Level Corruption Guard (SLCG)	Yes
SLCG Schedule Type	Daily
SLCG Schedule Day	Friday Saturday Sunday

Table 447 - Advanced Settings (Maintenance) - File Backup Job 1

Advanced Settings (Notification)

Send Snmp Notification	Yes
Send Email Notification	Yes
Email Notification Additional Addresses	rebelinux@gmail.com
Email Notify Time	10:00 PM
Use Custom Email Notification Options	Yes
Use Custom Notification Setting	[%JobResult%] %JobName% (%ObjectCount% objects) %Issues%
Notify On Success	Yes
Notify On Warning	Yes
Notify On Error	Yes
Suppress Notification until Last Retry	Yes
Set Results To Vm Notes	No
VM Attribute Note Value	Notes
Append to Existing Attribute	Yes

Table 448 - Advanced Settings (Notification) - File Backup Job 1

Advanced Settings (Script)

## Veeam Backup & Replication As Built Report - v1.0

Run the Following Script Before	Yes
Run Script Before the Job	caca.sh
Run the Following Script After	Yes
Run Script After the Job	cacaout.sh
Run Script Frequency	Cycles
Run Script Every Backup Session	1

Table 449 - Advanced Settings (Script) - File Backup Job 1

### Archive Repository

Backup Repository	Linux - Hardened Repository
Type	LinuxLocal
FriendlyPath	/backup_data/backups
Archive previous version for	3 Yearly
File to archive	ExclusionMask
Exclusion Mask	*.tmp,*.ods
Description	Created by PHARMAX\jocolon at 12/28/2021 1:25 PM.

Table 450 - Archive Repository - File Backup Job 1

### Secondary Target

Job Name	Type	State	Description
File Backup Job 1 (Copy) 1	Backup Copy	Failed	

Table 451 - Secondary Destination Jobs - File Backup Job 1

### Schedule

Retry Failed item	3
Wait before each retry	10/min
Backup Window	Yes
Schedule type	Daily
Schedule Options	Kind: Everyday, Days: Sunday Monday Tuesday Wednesday Thursday Friday Saturday
Start Time	10:00 PM
Latest Run	01/14/2024 22:00:23

Table 452 - Schedule Options - File Backup Job 1

### Backup Window Time Period

#### Permitted \ Denied

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	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Mon																								
Tue																								
Wed																								

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
Thu																								
Fri																								
Sat																								

Table 453 - Backup Window - File Backup Job 1

### 1.5.16 Backup Copy Jobs

The following section lists backup copy jobs created within Veeam Backup & Replication.

Name	Copy Mode	Status	Latest Result	Scheduled?
Backup Copy Job 1	Immediate	Enabled	Warning	Periodically
Backup Copy Job 4	Periodic	Enabled	Failed	AfterJob
Backup Copy Job 5	Periodic	Enabled	Failed	Monthly
HPE-StoreOnce-Copy-Job	Immediate	Enabled	Success	Periodically
Hyper-V-Backup-Copy	Immediate	Disabled	Failed	Periodically

Table 454 - Backup Copy Jobs - VEEAM-VBR

### 1.5.17 Backup Copy Jobs Configuration

The following section details the configuration of backup copy jobs.

#### 1.5.17.1 Backup Copy Job 1

##### Common Information

Name	Backup Copy Job 1
Id	96823381-1230-4ff9-8b34-90692d34c6da
Type	ImmediateBackupCopy
Copy Mode	Immediate
Last Result	Warning
Status	Stopped
Next Run	01/21/2024 00:00:00
Include database transaction log backup	Yes
Description	Created by PHARMAX\administrator at 2/12/2022 9:10 PM.
Modified By	PHARMAX\administrator

Table 455 - Common Information - Backup Copy Job 1

##### Health Check:

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

##### Backup Jobs Objects

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Name	Type	Size	Repository
PHARMAX-HQ-SVR	VMware Backup	31 GB	SOBR - Minio

Table 456 - Backup Jobs Objects - Backup Copy Job 1

Target

Backup Repository	cloud-jcolonfzenpr-01
Retention Type	Restore Days
Retain Days To Keep	7
Keep Weekly full backup for	1 weeks, Create weekly full on this day: Sunday
Keep Monthly full backup for	1 months, Use weekly full backup from the following week of the month: First
Keep Yearly full backup for	1 years, Use monthly full backup from the following month: January
Read the entire RestorePoint fromSource Backup	No

Table 457 - Target Options - Backup Copy Job 1

Advanced Settings (Maintenance)

Storage-Level Corruption Guard (SLCG)	Yes
SLCG Schedule Type	Monthly
SLCG Backup Monthly Schedule at	Hour of Day: 22:00:00 Day Number In Month: Last Day Of Week: Saturday Day of Month: 1 Months: January February March April May June July August September October November December

Table 458 - Advanced Settings (Maintenance) - Backup Copy Job 1

Advanced Settings (Storage)

Inline Data Deduplication	Yes
Compression Level	Auto
Enabled Backup File Encryption	Yes
Encryption Key	Password Global

Table 459 - Advanced Settings (Storage) - Backup Copy Job 1

Advanced Settings (RPO Monitor)

Alert me when new backup is not copied within	1 Days Enable:Yes
Alert me when new log backup is not copied within	Enabled:--

Table 460 - Advanced Settings (RPO Monitor) - Backup Copy Job 1

## Advanced Settings (Notification)

Send Snmp Notification	Yes
Send Email Notification	Yes
Email Notification Additional Addresses	rebelinux@gmail.com
Email Notify Time	22:00:00
Use Custom Email Notification Options	No
Use Custom Notification Setting	[%JobResult%] %JobName% (%ObjectCount% machines) %Issues%
Notify On Success	Yes
Notify On Warning	Yes
Notify On Error	Yes
Send notification	Immediately after each copied backup

Table 461 - Advanced Settings (Notification) - Backup Copy Job 1

## Advanced Settings (Script)

Run the Following Script Before	No
Run Script Before the Job	--
Run the Following Script After	No
Run Script After the Job	--
Run Script Frequency	Cycles
Run Script Every Backup Session	1

Table 462 - Advanced Settings (Script) - Backup Copy Job 1

## Data Transfer

Use Wan accelerator	No
Source Wan accelerator	--
Target Wan accelerator	--

Table 463 - Data Transfer - Backup Copy Job 1

## Schedule

Retry Failed Enabled?	Yes
Retry Failed item processing	3
Wait before each retry	10/min
Backup Window	No
Schedule type	Periodically
Schedule Options	Continuously

Table 464 - Schedule Options - Backup Copy Job 1

## 1.5.17.2 Backup Copy Job 4

## Common Information

Name	Backup Copy Job 4
------	-------------------

Id	a056f7b0-eb3f-4fd3-b864-55b3993a0bf9
Type	ImmediateBackupCopy
Copy Mode	Periodic
Last Result	Failed
Status	Stopped
Next Run	--
Include database transaction log backup	No
Description	Created by PHARMAX\administrator at 7/7/2023 5:01 PM.
Modified By	PHARMAX\administrator

Table 465 - Common Information - Backup Copy Job 4

**Health Check:**

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

**Backup Jobs Objects**

Name	Type	Size	Repository
Agent Backup Job 3	Windows Agent Backup	0 KB	SOBR - Minio
Gurabo PC - Backup Job	Windows Agent Policy	0 KB	SOBR - Minio
SOBR - TEST	VMware Backup	78 GB	SOBR - Minio

Table 466 - Backup Jobs Objects - Backup Copy Job 4

**Repositories Objects**

Name	Type	Size
HQ - Backups	Standard	199 Gb

Table 467 - Repositories Objects - Backup Copy Job 4

**Target**

Backup Repository	Linux - Hardened Repository
Retention Type	Restore Days
Retain Days To Keep	7
Keep Weekly full backup for	1 weeks, Create weekly full on this day: Sunday
Keep Monthly full backup for	1 months, Use weekly full backup from the following week of the month: First
Keep Yearly full backup for	1 years, Use monthly full backup from the following month: January
Read the entire RestorePoint fromSource Backup	Yes

Table 468 - Target Options - Backup Copy Job 4

**Advanced Settings (Maintenance)**

Storage-Level Corruption Guard	Yes
--------------------------------	-----

(SLCG)	
SLCG Schedule Type	Monthly
SLCG Backup Monthly Schedule at	Hour of Day: 22:00:00 Day Number In Month: Last Day Of Week: Saturday Day of Month: 1 Months: January February March April May June July August September October November December

Table 469 - Advanced Settings (Maintenance) - Backup Copy Job 4

#### Advanced Settings (Storage)

Inline Data Deduplication	Yes
Compression Level	Auto
Enabled Backup File Encryption	Yes
Encryption Key	Password Global

Table 470 - Advanced Settings (Storage) - Backup Copy Job 4

#### Advanced Settings (RPO Monitor)

Alert me when new backup is not copied within	1 Days Enable:Yes
Alert me when new log backup is not copied within	15 Minutes Enabled:Yes

Table 471 - Advanced Settings (RPO Monitor) - Backup Copy Job 4

#### Advanced Settings (Notification)

Send Snmp Notification	Yes
Send Email Notification	Yes
Email Notification Additional Addresses	rebelinux@gmail.com
Email Notify Time	22:00:00
Use Custom Email Notification Options	No
Use Custom Notification Setting	[%JobResult%] %JobName% (%ObjectCount% objects) %Issues%
Notify On Success	Yes
Notify On Warning	Yes
Notify On Error	Yes
Send notification	Immediately after each copied backup

Table 472 - Advanced Settings (Notification) - Backup Copy Job 4

#### Advanced Settings (Script)

Run the Following Script Before	Yes
Run Script Before the Job	pre.bat
Run the Following Script After	Yes
Run Script After the Job	post.bat
Run Script Frequency	Cycles

**Run Script Every Backup Session**

1

Table 473 - Advanced Settings (Script) - Backup Copy Job 4

**Data Transfer**

Use Wan accelerator	No
Source Wan accelerator	--
Target Wan accelerator	--

Table 474 - Data Transfer - Backup Copy Job 4

**Schedule**

Retry Failed Enabled?	Yes
Retry Failed item processing	3
Wait before each retry	10/min
Backup Window	Yes
Schedule type	AfterJob
Schedule Options	After Job: Backup - Replicated VM - Cloud Virtualdcs

Table 475 - Schedule Options - Backup Copy Job 4

**Backup Window Time Period****Permitted \ Denied**

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 476 - Backup Window - Backup Copy Job 4

**1.5.17.3 Backup Copy Job 5****Common Information**

Name	Backup Copy Job 5
Id	414e7746-0b13-4ec4-9c77-38378b0f0af9
Type	ImmediateBackupCopy
Copy Mode	Periodic
Last Result	Failed
Status	Stopped
Next Run	01/27/2024 22:00:00
Include database transaction log backup	No
Description	Created by PHARMAX\administrator at 7/9/2023 8:49 PM.

Modified By	PHARMAX\administrator
-------------	-----------------------

Table 477 - Common Information - Backup Copy Job 5

**Health Check:**

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

**Backup Jobs Objects**

Name	Type	Size	Repository
Agent Backup Policy 2	Linux Agent Policy	0 KB	SOBR - Minio

Table 478 - Backup Jobs Objects - Backup Copy Job 5

**Target**

Backup Repository	Linux - Hardened Repository
Retention Type	Restore Points
Restore Points	7
Keep Weekly full backup	Disabled
Keep Monthly full backup	Disabled
Keep Yearly full backup	Disabled
Read the entire RestorePoint fromSource Backup	No

Table 479 - Target Options - Backup Copy Job 5

**Advanced Settings (Maintenance)**

Storage-Level Corruption Guard (SLCG)	No
SLCG Schedule Type	Monthly
SLCG Backup Monthly Schedule at	Hour of Day: 22:00:00 Day Number In Month: Last Day Of Week: Saturday Day of Month: 1 Months: January February March April May June July August September October November December

Table 480 - Advanced Settings (Maintenance) - Backup Copy Job 5

**Health Check:**

**Best Practice:** It is recommended to use storage-level corruption guard for any backup job with no active full backups scheduled. Synthetic full backups are still 'incremental forever' and may suffer from corruption over time. Storage-level corruption guard was introduced to provide a greater level of confidence in integrity of the backups.

**Advanced Settings (Storage)**

Inline Data Deduplication	Yes
Compression Level	Auto
Enabled Backup File Encryption	No
Encryption Key	--

Table 481 - Advanced Settings (Storage) - Backup Copy Job 5

**Health Check:**

**Best Practice:** Backup and replica data is a high potential source of vulnerability. To secure data stored in backups and replicas, use Veeam Backup & Replication inbuilt encryption to protect data in backups

## Advanced Settings (RPO Monitor)

Alert me when new backup is not copied within	1 Days Enable:Yes
Alert me when new log backup is not copied within	Enabled:--

Table 482 - Advanced Settings (RPO Monitor) - Backup Copy Job 5

## Advanced Settings (Notification)

Send Snmp Notification	No
Send Email Notification	No
Email Notification Additional Addresses	
Email Notify Time	22:00:00
Use Custom Email Notification Options	No
Use Custom Notification Setting	[%JobResult%] %JobName% (%ObjectCount% objects) %Issues%
Notify On Success	Yes
Notify On Warning	Yes
Notify On Error	Yes
Send notification	Immediately after each copied backup

Table 483 - Advanced Settings (Notification) - Backup Copy Job 5

## Advanced Settings (Script)

Run the Following Script Before	No
Run Script Before the Job	--
Run the Following Script After	No
Run Script After the Job	--
Run Script Frequency	Cycles
Run Script Every Backup Session	1

Table 484 - Advanced Settings (Script) - Backup Copy Job 5

## Data Transfer

Use Wan accelerator	No
Source Wan accelerator	--
Target Wan accelerator	--

Table 485 - Data Transfer - Backup Copy Job 5

## Schedule

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Retry Failed Enabled?	Yes
Retry Failed item processing	3
Wait before each retry	10/min
Backup Window	Yes
Schedule type	Monthly
Schedule Options	Day Of Month: 1, Day Number In Month: Fourth, Day Of Week: Saturday, At 22:00:00,

Table 486 - Schedule Options - Backup Copy Job 5

### Backup Window Time Period

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

Table 487 - Backup Window - Backup Copy Job 5

### 1.5.17.4 HPE-StoreOnce-Copy-Job

#### Common Information

Name	HPE-StoreOnce-Copy-Job
Id	c6ebec4d-941a-4c55-be0b-cadb0cedbaad
Type	ImmediateBackupCopy
Copy Mode	Immediate
Last Result	Success
Status	Stopped
Next Run	06/30/2021 18:00:13
Include database transaction log backup	No
Description	Created by PHARMAX\administrator at 6/30/2021 5:58 PM.
Modified By	PHARMAX\administrator

Table 488 - Common Information - HPE-StoreOnce-Copy-Job

#### Health Check:

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

#### Target

Backup Repository	VEEAM-HPE-StoreOnce-VSA
-------------------	-------------------------

Retention Type	Restore Days
Retain Days To Keep	7
Keep Weekly full backup	Disabled
Keep Monthly full backup	Disabled
Keep Yearly full backup	Disabled
Read the entire RestorePoint fromSource Backup	No

Table 489 - Target Options - HPE-StoreOnce-Copy-Job

#### Advanced Settings (Maintenance)

Storage-Level Corruption Guard (SLCG)	No
SLCG Schedule Type	Monthly
SLCG Backup Monthly Schedule at	Hour of Day: 05:00:00 Day Number In Month: Last Day Of Week: Saturday Day of Month: 1 Months: January February March April May June July August September October November December

Table 490 - Advanced Settings (Maintenance) - HPE-StoreOnce-Copy-Job

#### Health Check:

**Best Practice:** It is recommended to use storage-level corruption guard for any backup job with no active full backups scheduled. Synthetic full backups are still 'incremental forever' and may suffer from corruption over time. Storage-level corruption guard was introduced to provide a greater level of confidence in integrity of the backups.

#### Advanced Settings (Storage)

Inline Data Deduplication	Yes
Compression Level	Auto
Enabled Backup File Encryption	No
Encryption Key	--

Table 491 - Advanced Settings (Storage) - HPE-StoreOnce-Copy-Job

#### Health Check:

**Best Practice:** Backup and replica data is a high potential source of vulnerability. To secure data stored in backups and replicas, use Veeam Backup & Replication inbuilt encryption to protect data in backups

#### Advanced Settings (RPO Monitor)

Alert me when new backup is not copied within	1 Days Enable:Yes
Alert me when new log backup is not copied within	Enabled:--

Table 492 - Advanced Settings (RPO Monitor) - HPE-StoreOnce-Copy-Job

#### Advanced Settings (Notification)

Send Snmp Notification	No
Send Email Notification	No
Email Notification Additional Addresses	
Email Notify Time	22:00:00
Use Custom Email Notification Options	No
Use Custom Notification Setting	[%JobResult%] %JobName% (%ObjectCount% machines) %Issues%
Notify On Success	Yes
Notify On Warning	Yes
Notify On Error	Yes
Send notification	Immediately after each copied backup

Table 493 - Advanced Settings (Notification) - HPE-StoreOnce-Copy-Job

#### Advanced Settings (Script)

Run the Following Script Before	No
Run Script Before the Job	--
Run the Following Script After	No
Run Script After the Job	--
Run Script Frequency	Cycles
Run Script Every Backup Session	1

Table 494 - Advanced Settings (Script) - HPE-StoreOnce-Copy-Job

#### Data Transfer

Use Wan accelerator	No
Source Wan accelerator	--
Target Wan accelerator	--

Table 495 - Data Transfer - HPE-StoreOnce-Copy-Job

#### Schedule

Retry Failed Enabled?	Yes
Retry Failed item processing	3
Wait before each retry	10/min
Backup Window	No
Schedule type	Periodically
Schedule Options	Continuously

Table 496 - Schedule Options - HPE-StoreOnce-Copy-Job

#### 1.5.17.5 Hyper-V-Backup-Copy

##### Common Information

Name	Hyper-V-Backup-Copy
Id	ad3ef14b-909d-4c00-9fe0-6ac3075ec129
Type	ImmediateBackupCopy

Copy Mode	Immediate
Last Result	Failed
Status	Stopped
Next Run	--
Include database transaction log backup	No
Description	--
Modified By	PHARMAX\administrator

Table 497 - Common Information - Hyper-V-Backup-Copy

**Health Check:**

**Best Practice:** It is a general rule of good practice to establish well-defined descriptions. This helps to speed up the fault identification process, as well as enabling better documentation of the environment.

**Backup Jobs Objects**

Name	Type	Size	Repository
HyperV-Backup-Job	Hyper-V Backup	4 MB	HQ - Backups

Table 498 - Backup Jobs Objects - Hyper-V-Backup-Copy

**Repositories Objects**

Name	Type	Size
SOBR - Minio	ScaleOut	499 GB

Table 499 - Repositories Objects - Hyper-V-Backup-Copy

**Target**

Backup Repository	Linux - Hardened Repository
Retention Type	Restore Days
Retain Days To Keep	7
Keep Weekly full backup for	1 weeks, Create weekly full on this day: Friday
Keep Monthly full backup	Disabled
Keep Yearly full backup for	1 years, Use monthly full backup from the following month: December
Read the entire RestorePoint fromSource Backup	No

Table 500 - Target Options - Hyper-V-Backup-Copy

**Advanced Settings (Maintenance)**

Storage-Level Corruption Guard (SLCG)	Yes
SLCG Schedule Type	Weekly
SLCG Backup Weekly Schedule at	Hour of Day: 22:00:00 Selected Days: Monday Tuesday Wednesday Thursday Friday

*Table 501 - Advanced Settings (Maintenance) - Hyper-V-Backup-Copy*

#### Advanced Settings (Storage)

Inline Data Deduplication	Yes
Compression Level	Auto
Enabled Backup File Encryption	Yes
Encryption Key	Password Global

*Table 502 - Advanced Settings (Storage) - Hyper-V-Backup-Copy*

#### Advanced Settings (RPO Monitor)

Alert me when new backup is not copied within	1 Hours Enable:Yes
Alert me when new log backup is not copied within	1 Days Enabled:Yes

*Table 503 - Advanced Settings (RPO Monitor) - Hyper-V-Backup-Copy*

#### Advanced Settings (Notification)

Send Snmp Notification	No
Send Email Notification	No
Email Notification Additional Addresses	rebelinux@gmail.com
Email Notify Time	22:00:00
Use Custom Email Notification Options	Yes
Use Custom Notification Setting	[%JobResult%] %JobName% (%ObjectCount% machines) %Issues%
Notify On Success	Yes
Notify On Warning	Yes
Notify On Error	Yes
Send notification	Daily as a summary

*Table 504 - Advanced Settings (Notification) - Hyper-V-Backup-Copy*

#### Advanced Settings (Script)

Run the Following Script Before	Yes
Run Script Before the Job	pre-freeze.bat
Run the Following Script After	Yes
Run Script After the Job	post-freeze.bat
Run Script Frequency	Cycles
Run Script Every Backup Session	1

*Table 505 - Advanced Settings (Script) - Hyper-V-Backup-Copy*

#### Data Transfer

Use Wan accelerator	Yes
Source Wan accelerator	VEEAM-VBR
Target Wan accelerator	VEEAM-VBR-02V.pharmax.local

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*Table 506 - Data Transfer - Hyper-V-Backup-Copy*

Schedule

Retry Failed Enabled?	Yes
Retry Failed item processing	3
Wait before each retry	10/min
Backup Window	Yes
Shedule type	Periodically
Shedule Options	Continuously

*Table 507 - Schedule Options - Hyper-V-Backup-Copy*