Veeam Backup & Replication As Built Report

Zen PR Solutions

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Date: Monday, December 25, 2023
Version: 1.0

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1 VEEAM-VBR

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

1.1 Backup Infrastructure

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

Backup Infrastructure Inventory

Backup Proxies	4
Managed Servers	44
Backup Repositories	6
SOBR Repositories	3
Object Repository	3
WAN Accelerator	4
Cloud Service Providers	2
SureBackup Application Group	
SureBackup Virtual Lab	
Locations	7
Instance Licenses (Total/Used)	1000/8
Socket Licenses (Total/Used)	0/0
Capacity Licenses (Total/Used)	0TB/0TB

Table 1 - Backup Infrastructure Inventory - 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
Logging Level	4
Log Directory	C:\ProgramData\Veeam\Backup

Table 2 - 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.
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

1.1.1.1 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 3 - Non-Default Registry Keys - VEEAM-VBR

1.1.1.2 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
Veeam Installer Service	VeeamDeploySvc	Running
Veeam Distribution Service	VeeamDistributionSvc	Running
Veeam Explorers Recovery Service	VeeamExplorersRecoverySvc	Running
Veeam Backup VSS Integration Service	VeeamFilesysVssSvc	Running
Veeam Cloud Gateway Service	VeeamGateSvc	Running
Veeam GCP Service	VeeamGCPSvc	Running
Veeam Kubernetes Service	VeeamKastenSvc	Running
Veeam Management Agent Service	VeeamManagementAgentSvc	Running
Veeam Mount Service	VeeamMountSvc	Running
Veeam vPower NFS Service	VeeamNFSSvc	Running
Veeam Tape Access Service	VeeamTapeSvc	Stopped
Veeam Data Mover Service	VeeamTransportSvc	Running
Veeam VSS Hardware Provider Service	VeeamVssProviderSvc	Running

Display Name	Short Name	Status
Veeam WAN Accelerator Service	VeeamWANSvc	Running

Table 4 - 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	https://VEEAM-EM.pharmax.local:9443
Skip License Push	No
Is Connected	Yes

Table 5 - 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	Evaluation
Status	Valid
Expiration Date	Thursday, January 4, 2024
Support Id	N/A
Support Expiration Date	-
Auto Update Enabled	No
Free Agent Instance	Yes
Cloud Connect	Disabled

Table 6 - Licenses - VEEAM-VBR

Instance License Usage

Instances Capacity	Used Instances	New Instances	Rental Instances
1000	8	0	0

Table 7 - Instance License Usage - VEEAM-VBR

Per Instance Type License Usage

Type	Count	Multiplier	Used Instances
VM	8	1	8
FileShare	0	1	0

Table 8 - Per Instance Type - VEEAM-VBR

1.1.4 General Options

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

1.1.4.1 Configuration Backup

Name	Backup Configuration Job
Run Job Automatically	Yes
Schedule Type	Daily
Schedule Options	Type: Everyday Period: 10:00:00 Day Of Week: Sunday Monday Tuesday Wednesday Thursday Friday Saturday
Restore Points To Keep	10
Encryption Enabled	Yes
Encryption Key	Password Global
Additional Address	veeam_admin@pharmax.local
Email Subject	[%JobResult%] %JobName% (%Time%)
Notify On	Notify On Success: No Notify On Warning: Yes Notify On Error: Yes Notify On Last Retry Only: Yes
NextRun	12/26/2023 10:00:00
Target	Linux - Hardened Repository
Enabled	Yes
LastResult	Success

Table 9 - Configuration Backup Settings - VEEAM-VBR

1.1.4.2 Email Notification

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

Table 10 - Email Notification Settings - VEEAM-VBR

1.1.4.3 Global Notifications

Backup Storage

Warn me when free disk space is below	Disabled

Table 11 - Backup Storage Notification - VEEAM-VBR

Production Datastore

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

Table 12 - Production Datastore Notification - VEEAM-VBR

Support Expiration

Enable notification about support contract expiration	Yes

Table 13 - Support Expiration Notification - VEEAM-VBR

Update Notification

Check for product and hypervisor updates periodically	Yes

Table 14 - Update Notification Notification - VEEAM-VBR

1.1.4.4 Storage Latency Control

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

Table 15 - Storage Latency Control - VEEAM-VBR

Per Datastore Latency Control Options

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

Table 16 - Per Datastore Latency Control Options - VEEAM-VBR

1.1.4.5 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 17 - TLS Certificate - VEEAM-VBR

1.1.4.6 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 18 - Network Traffic Rules - Inter-Site-to-DR

Throttling Windows Time Period

Permited \ 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 19 - 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 20 - 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 21 - Preferred Networks - 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
PHARMAX\veeam_admin	User	BackupOperator
PHARMAX\vrauser	User	BackupOperator

Table 22 - 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
admin	12/14/2019	admin netapp
admin	2/24/2022	ONTAP-HQ-SAN
admin	1/16/2022	Isilon Account
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
god	12/28/2021	god
god	12/28/2021	god
rebelinux@gmail.com	12/28/2021	rebelinux@gmail.com
root	7/20/2022	ESXi root account
root	12/23/2023	root
root	12/14/2019	Helper appliance credentials
root	12/14/2019	Azure helper appliance credentials
root	12/14/2019	Provider-side network extension appliance credentials
root	12/18/2019	root
root	12/14/2019	Tenant-side network extension appliance credentials
SYS	12/18/2019	SYS
veeam	7/6/2021	veeam_dxi
VEEAM	12/18/2019	VEEAM
VEEAM_ADMIN	12/18/2019	VEEAM_ADMIN
veeam_admin	12/15/2019	veeam_admin
veeam_admin@pharmax.local	12/14/2019	veeam_admin@pharmax.local
VEEAM-VBR	2/6/2022	VEAM-VBR
VEEAM-VBR	6/30/2021	HP StoreOne VSA
ZenPRSolutions-130858420/ZenPRSolutions-130858420	6/9/2022	ZenPRSolutions-130858420/ZenPRSolutions-130858420

Table 23 - 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 24 - Service Provider Credentials - VEEAM-VBR

1.1.7 Geographical Locations

The following section provide a summary about geographical locations.

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

Table 25 - Location - VEEAM-VBR

1.1.8 Virtualization Servers and Hosts

Name	Description	Status
192.168.7.65	Linux host	Unavailable
veeam-lnx-px.pharmax.local	Linux host	Unavailable
VEEAM-VTL.pharmax.local	Linux host	Available
pharmax-cluster.pharmax.local	Microsoft Hyper-V cluster	Available
VEEAM-HV-03.pharmax.local	Microsoft Hyper-V server	Unavailable
VEEAM-HV-02	Microsoft Hyper-V server	Unavailable
VEEAM-HV-01	Microsoft Hyper-V server	Unavailable
VEEAM-HV-03.pharmax.local	Microsoft Windows server	Unavailable
VEEAM-VBR.pharmax.local	Microsoft Windows server	Available
VEEAM-HV-01.pharmax.local	Microsoft Windows server	Unavailable
VEEAM-REPO-01V.pharmax.local	Microsoft Windows server	Unavailable
VEEAM-HV-02.pharmax.local	Microsoft Windows server	Unavailable
VEEAM-TPS-01V.pharmax.local	Microsoft Windows server	Unavailable
VEEAM-WAN-01V.pharmax.local	Microsoft Windows server	Unavailable
server-dc-01v	Microsoft Windows server	Available
VEEAM-HVPRX-01V.pharmax.local	Microsoft Windows server	Unavailable
VEEAM-VBR-02V.pharmax.local	Microsoft Windows server	Unavailable
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
\\server-dc-01v\UEMConfig	SMB file share	Available
\\isilon_nas.pharmax.local\DATA	SMB file share	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
ONTAP-HQ-SAN\NAS-VEEAM:\c$	SMB filer	Available
ONTAP-DR-SAN	Storage	Available
PHARMAX-ISILON	Storage	Available
VEEAM-NTAP-CLUSTER	Storage	Available
ONTAP-HQ-SAN	Storage	Available
PHARMAX-DR	Storage	Available
PHARMAX-HQ	Storage	Available
vcd-srv-01v.pharmax.local	VMware Cloud Director server	Available
esxsvr-00f.pharmax.local	VMware ESXi server	Available
192.168.7.124	VMware ESXi server	Available
esxsvr-00f.pharmax.local	VMware ESXi server	Available
disaster-01a.pharmax.local	VMware ESXi server	Available
edge-01a.pharmax.local	VMware ESXi server	Available
comp-01a.pharmax.local	VMware ESXi server	Available
192.168.7.124	VMware ESXi server	Available
comp-01a.pharmax.local	VMware ESXi server	Available
192.168.5.2	VMware vCenter server	Available
vcenter-01v.pharmax.local	VMware vCenter server	Available
vcenter-03v.pharmax.local	VMware vCenter server	Available

Table 26 - Managed Servers - VEEAM-VBR

1.1.9 Backup Proxies

The following section provides a summary of the Veeam Backup Proxies

1.1.9.1 VMware Backup Proxies

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

Status	Unavailable

Table 27 - 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 28 - 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 29 - Backup Proxy - VEEAM-VBR-02V.pharmax.local

HealthCheck - VEEAM-VBR-02V Services Status

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

Table 30 - HealthCheck - Services Status - VEEAM-VBR-02V

1.1.9.1.1 VMware Backup Proxy Diagram.

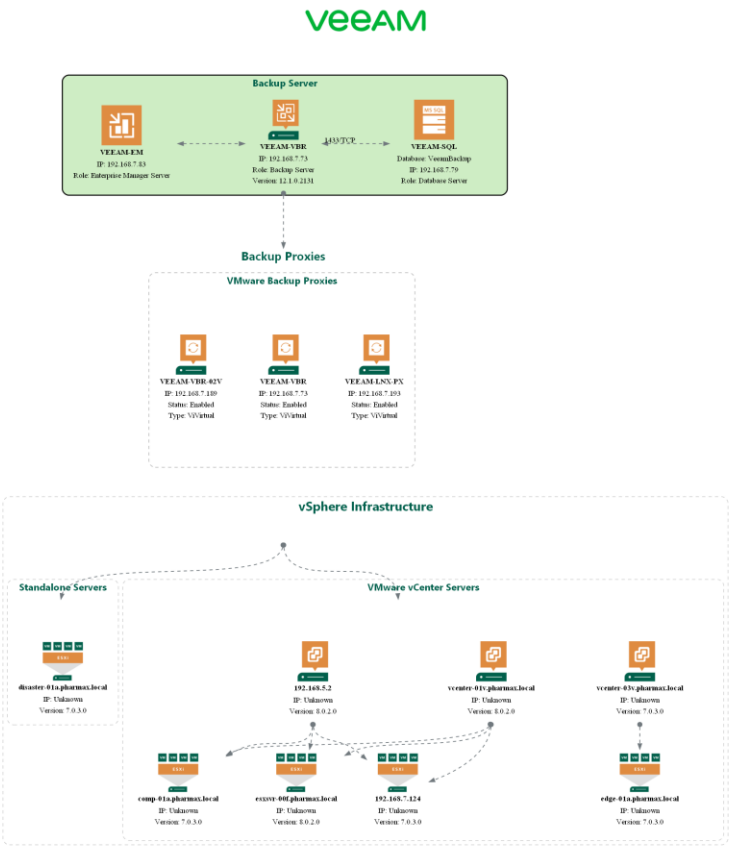

Image preview: Opens the image in a new tab to view it at full resolution.

1.1.9.2 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 31 - Backup Proxy - VEEAM-HVPRX-01V

HealthCheck - VEEAM-HVPRX-01V Services Status

Display Name	Short Name	Status
Veeam Cloud Gateway Service	VeeamGateSvc	Running
Veeam Data Mover Service	VeeamTransportSvc	Running

Display Name	Short Name	Status
Veeam Hyper-V Integration Service	VeeamHvIntegrationSvc	Running
Veeam Installer Service	VeeamDeploySvc	Running

Table 32 - HealthCheck - Services Status - VEEAM-HVPRX-01V

1.1.9.2.1 HyperV Backup Proxy Diagram.

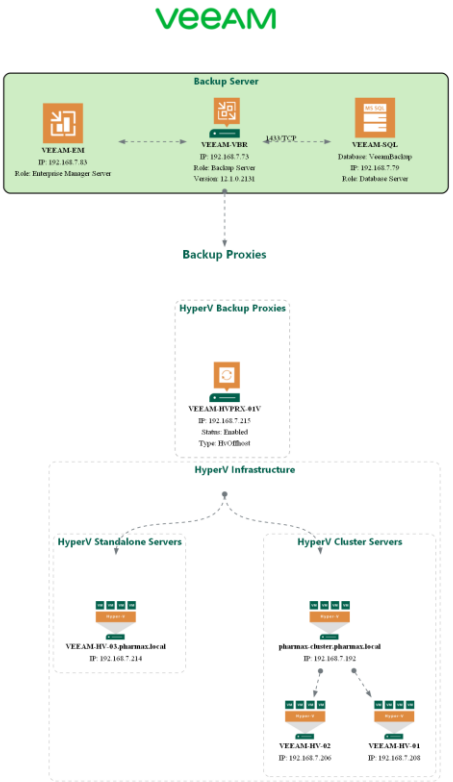

Image preview: Opens the image in a new tab to view it at full resolution.

1.1.10 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 33 - Wan Accelerator - VEEAM-REPO-01V.pharmax.local

Name	VEEAM-VBR

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

Table 34 - 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 35 - 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 36 - Wan Accelerator - VEEAM-WAN-01V.pharmax.local

1.1.11 Wan Accelerator Diagram.

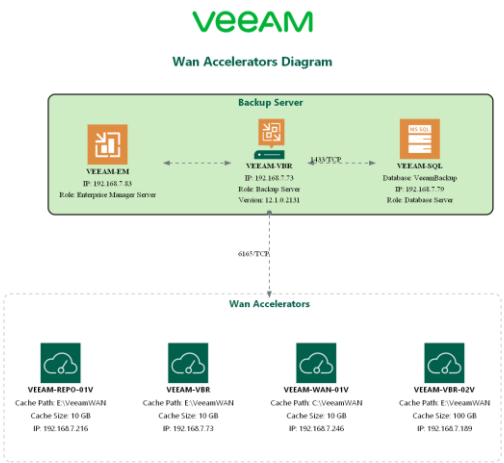

Image preview: Opens the image in a new tab to view it at full resolution.

1.1.12 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 37 - Service Providers - VEEAM-VBR

1.1.13 Backup Repository

The following section provides Backup Repository summary information.

Name	Total Space	Free Space	Used Space %	Status
cloud-jcolonfzenpr-01	1000 Gb	923 Gb	8	Unavailable
HQ - Backups	199 Gb	198 Gb	1	Unavailable
Linux - Hardened Repository	199 Gb	187 Gb	6	Unavailable
VEEAM-DD	351 Gb	291 Gb	17	Unavailable
VEEAM-HPE-StoreOnce-VSA	0 Gb	0 Gb	0	Unavailable
VEEAM-VBR - E:\	499 Gb	139 Gb	72	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

Table 38 - Backup Repository - VEEAM-VBR

1.1.13.1 Backup Repository Configuration

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

cloud-jcolonfzenpr-01

Backup Proxy	uk-rep04.peasoup.net
Integration Type	Cloud
Path	
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 39 - Backup Repository - cloud-jcolonfzenpr-01

Health Check:

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

HQ - Backups

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

Table 40 - Backup Repository - HQ - Backups

Linux - Hardened Repository

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

Max Task Count	4
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 41 - Backup Repository - Linux - Hardened Repository

VEEAM-DD

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

Table 42 - 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 43 - 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.

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 44 - 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 45 - Backup Repository - VEEAM-VBR - F:

VEEAM-VBR-02V - E:\

Extent of ScaleOut Backup Repository	SOBR - AWS S3
Backup Proxy	VEEAM-VBR-02V.pharmax.local
Integration Type	Windows
Path	E:\Backups
Connection Type	WinLocal
Max Task Count	4
Use Nfs On Mount Host	Yes
San Snapshot Only	No
Dedup Storage	No
Split Storages Per Vm	No
Immutability Supported	No
Immutability Enabled	No
Immutability Interval	7
Version Of Creation	11.0.1.1261
Has Backup Chain Length Limitation	No

Table 46 - 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 47 - Backup Repository - VEEAM-VBR-02V - F:

1.1.14 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
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

Table 48 - Object Storage Repository - VEEAM-VBR

1.1.14.1 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 49 - 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.

Object storage repository - Minio

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

Table 50 - Object Storage Repository - Object storage repository - Minio

Health Check:

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

OS - Azure Blob

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

Table 51 - 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.

1.1.15 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 52 - 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 53 - 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.

1.1.16 Backup Repository Diagram.

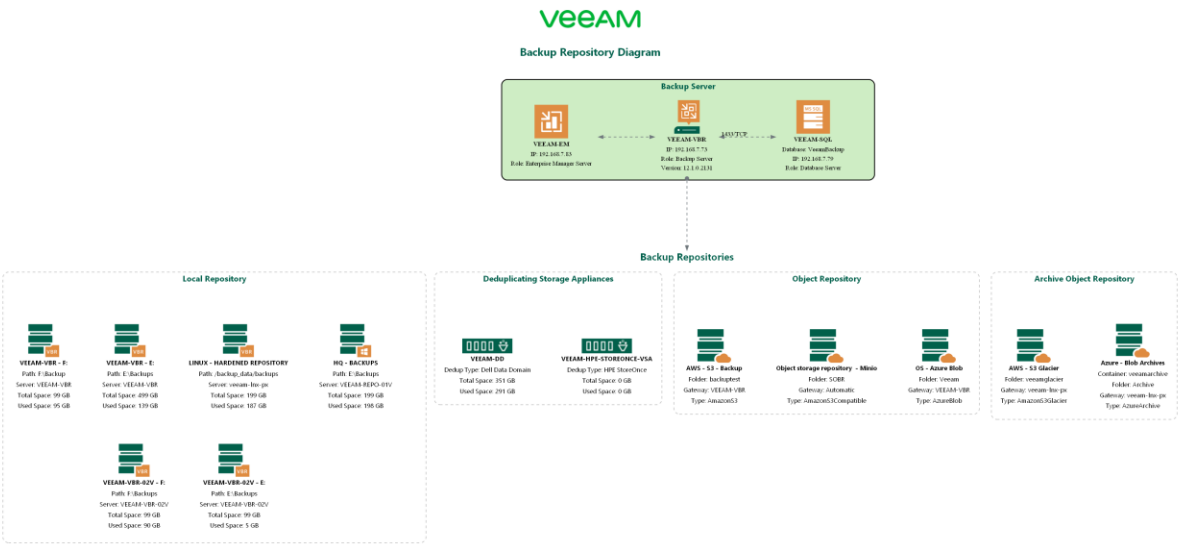

Image preview: Opens the image in a new tab to view it at full resolution.

1.1.17 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 54 - Scale Backup Repository - VEEAM-VBR

1.1.17.1 ScaleOut Backup Repository Configuration

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

1.1.17.1.1 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
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 55 - 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 56 - 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 57 - 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

Use IA Storage Class	No
Use OZ IA Storage Class	No

Table 58 - Capacity Tier - AWS - S3 - Backup

Offload Window Time Period

Permited \ 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 59 - Offload Window - AWS - S3 - Backup

Archive Tier

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

Table 60 - Archive Tier - AWS - S3 Glacier

1.1.17.1.2 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 61 - General Settings - SOBR - Azure Blob

Performance Tier

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

Table 62 - 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 63 - Capacity Tier - OS - Azure Blob

Offload Window Time Period

Permited \ 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 64 - 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 65 - Archive Tier - Azure - Blob Archives

1.1.17.1.3 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 66 - General Settings - SOBR - Minio

Performance Tier

Name	VEEAM-VBR - E:\
Repository	VEEAM-VBR - E:\
Path	E:\Backups
Total Space	499 GB
Used Space	139 GB
Status	Normal

Table 67 - 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 68 - Capacity Tier - Object storage repository - Minio

Offload Window Time Period

Permited \ 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 69 - Offload Window - Object storage repository - Minio

1.1.18 ScaleOut Backup Repository Diagram.

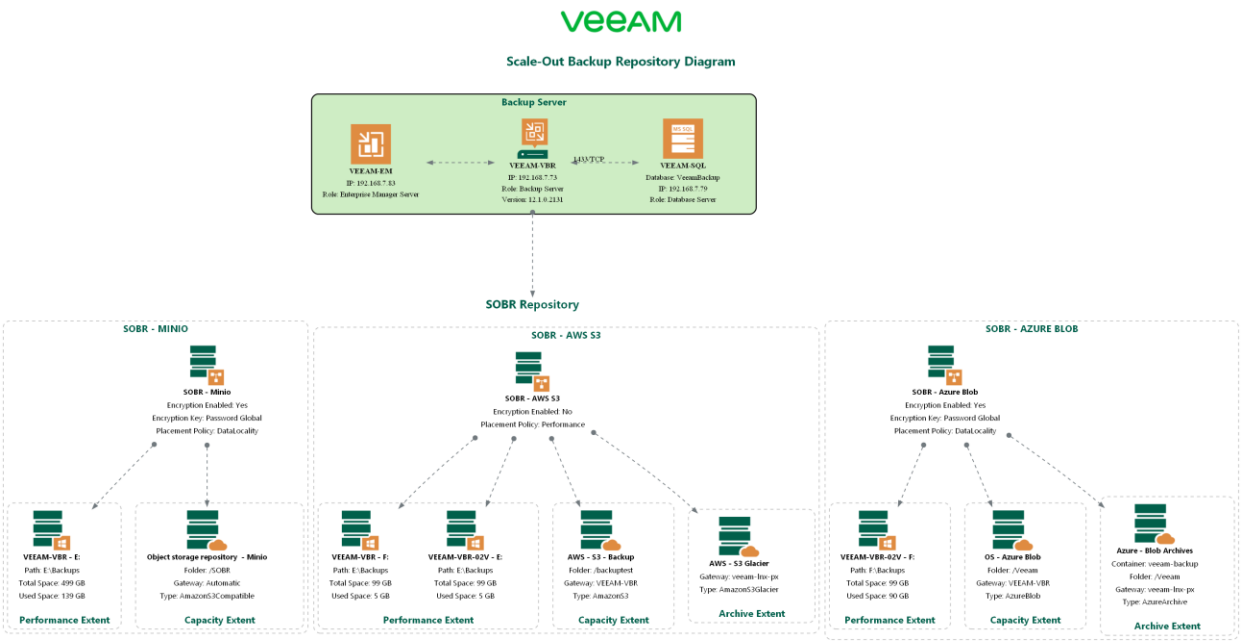

Image preview: Opens the image in a new tab to view it at full resolution.

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 70 - 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 71 - 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	Unavailable

Table 72 - Tape Library - ATL P3000 6.24

Tape Drives

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

Table 73 - 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 74 - 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
Connected to	VEEAM-VTL.pharmax.local
Enabled	Yes
Status	Unavailable

Table 75 - Tape Library - ATL P4000 6.24

Tape Drives

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

Table 76 - 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 77 - 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	Unavailable

Table 78 - Tape Library - ATL P7000 6.24

Tape Drives

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

Table 79 - 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 80 - 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.pharmax.local
Enabled	Yes
Status	Unavailable

Table 81 - Tape Library - QUANTUM Scalar i2000 7000

Tape Drives

Name	Model	Serial Number	Medium	Enabled	Is Locked	State
/dev/sg16	IBM ULT3580-TD8	9848941746	-	No	No	Offline
/dev/sg17	IBM ULT3580-TD8	6950900071	-	No	No	Offline
/dev/sg18	IBM ULT3580-TD8	2773846603	-	No	No	Offline
/dev/sg19	IBM ULT3580-TD8	9352972755	-	No	No	Offline
/dev/sg20	IBM ULT3580-TD8	7825242222	-	No	No	Offline
/dev/sg21	IBM ULT3580-TD8	2508671867	-	No	No	Offline

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

Table 82 - 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 83 - 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	Unavailable

Table 84 - Tape Library - QUANTUM Scalar i2000 7000

Tape Drives

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

Table 85 - 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 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 TB	12 TB	No	No	Yes
WRM238LY	-	12 TB	12 TB	No	No	Yes
WRM239LY	-	12 TB	12 TB	No	No	Yes
WRM240LY	-	12 TB	12 TB	No	No	Yes
WRM241LY	-	12 TB	12 TB	No	No	Yes

Table 86 - 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 ATL P3000 6.24 QUANTUM Scalar i2000 7000

Name	Type	Tape Count	Total Space	Free Space	Tape Library
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	5	59 TB	59 TB	QUANTUM Scalar i2000 7000
WORM Media Pool 1	Custom	5	59 TB	59 TB	QUANTUM Scalar i2000 7000

Table 87 - 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	Offline
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 88 - 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 89 - 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 Automatically	Yes
Append Backup Files to Incomplete Tapes	Yes
Move All Offline Tape into the following Media Vault	Yes
Vault	DR - Tape Vault

Table 90 - 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 Automatically	Yes
Append Backup Files to Incomplete Tapes	No

Table 91 - Gfs Media Set - Weekly Media Set Options

Monthly Media Set Options

Override Protection Period	12
Medium	
Media Set Name	Monthly media set #%id% %date%
Add Tapes from Media Pool Automatically	Yes

Append Backup Files to Incomplete Tapes	No

Table 92 - 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 Automatically	No
Append Backup Files to Incomplete Tapes	No

Table 93 - 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 Automatically	Yes
Append Backup Files to Incomplete Tapes	No
Move All Offline Tape into the following Media Vault	Yes
Vault	Pharmax - Veeam Tape Vault

Table 94 - 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 95 - 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	Offline
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 Automatically when more Tape are Required	Yes
Description	
Library Mode	Active (Used Always)

Table 96 - 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 97 - Tape Mediums - QUANTUM Scalar i2000 7000

Library Name	ATL P3000 6.24
Library Id	50053ba6-e4b7-49fe-bebf-98fd9d58ff83
Type	Automated
State	Offline
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 Automatically when more Tape are Required	Yes
Description	
Library Mode	Active (Used Always)

Table 98 - 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 99 - Tape Mediums - ATL P3000 6.24

Library Name	QUANTUM Scalar i2000 7000
Library Id	9b7ed595-5922-48f3-bd80-375af07096bb
Type	Automated
State	Offline
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 Automatically when more Tape are Required	Yes
Description	
Library Mode	Active (Used Always)

Table 100 - 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 101 - Media Set - Oracle - Media Pool

Retention

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

Table 102 - Media Set - Oracle - 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	Yes
Encryption Password	Password Global

Table 103 - 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	Offline
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 104 - 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 105 - 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 106 - 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 107 - 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 108 - 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	Offline
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 109 - 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
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 110 - 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 Automatically	Yes
Append Backup Files to Incomplete Tapes	Yes

Table 111 - 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 Automatically	Yes
Append Backup Files to Incomplete Tapes	No

Table 112 - Gfs Media Set - Weekly Media Set Options

Monthly Media Set Options

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

Table 113 - Gfs Media Set - Monthly Media Set Options

Quarterly Media Set Options

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

Table 114 - Gfs Media Set - Quarterly Media Set Options

Yearly Media Set Options

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

Table 115 - 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 116 - 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	Offline
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 117 - 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 118 - 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 119 - 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 120 - 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 121 - 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 122 - 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 123 - NDMP Servers - VEEAM-VBR

1.2.7 Tape Infrastructure Diagram.

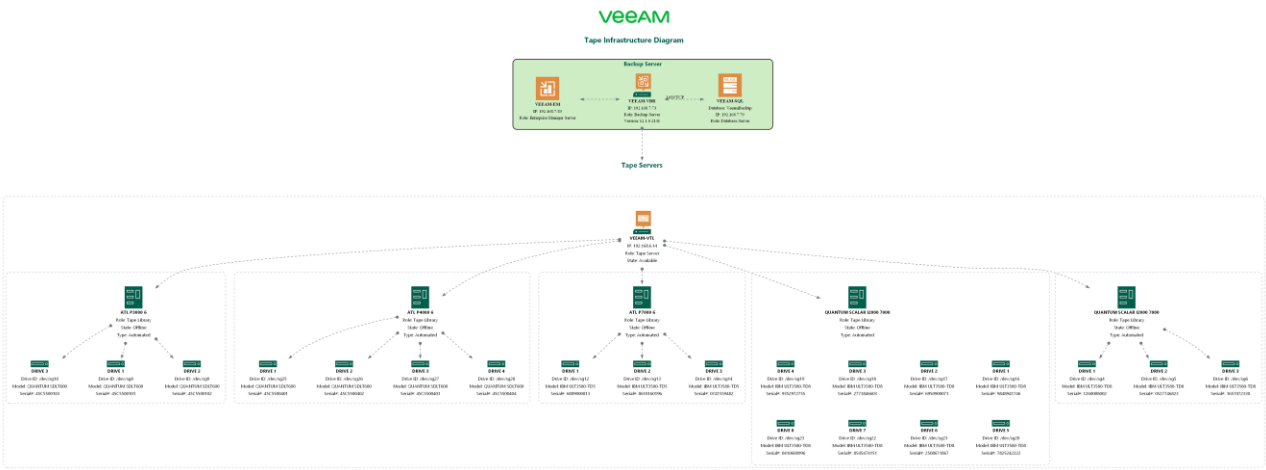

Image preview: Opens the image in a new tab to view it at full resolution.

1.3 Inventory

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

Inventory

vCenter Servers	3
ESXi Servers	8
Hyper-V Clusters	1
Hyper-V Servers	3
Protection Groups	6
File Shares	10

Table 124 - 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

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
vcenter-03v.pharmax.local	VMware vCenter Server 7.0.3 build-20990077	edge-01a.pharmax.local

Table 125 - 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
edge-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 126 - 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 127 - 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 128 - 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
Gurabo PC - Backup	Custom	ActiveDirectory	Periodically	Yes
HQ - Manual Packet	Custom	ManuallyDeployed	Daily	Yes
Linux Protection Group	Custom	IndividualComputers	Daily	Yes
Manually Added	ManuallyAdded	IndividualComputers	Daily	Yes
Others	Custom	ManuallyDeployed	Daily	Yes
Server with Netapp LUNS	Custom	ActiveDirectory	Daily	Yes

Table 129 - Protection Groups - VEEAM-VBR

1.3.2.1.1 Protection Group Configuration

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

Table 130 - 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 131 - 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 132 - Protection Group Configuration - Server with Netapp LUNS

1.3.3 File Shares

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

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
\\isilon_nas.pharmax.local\DATA	SMB Share	Low	administrator@pharmax.local	Linux - Hardened Repository
\\server-dc-01v\UEMConfig	SMB Share	Medium	administrator@pharmax.local	Linux - Hardened Repository
192.168.5.18:/DATA	NAS Filler	Medium	None	Linux - Hardened Repository
192.168.5.18:/oracle	NFS Share	Low	None	Linux - Hardened Repository
192.168.5.18:/oracle	NAS Filler	Medium	None	Linux - Hardened Repository

Path	Type	Backup IO Control	Credentials	Cache Repository
server-dc-01v	File Server	Medium	administrator@pharmax.local	Linux - Hardened Repository

Table 133 - File Shares - 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 134 - 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 135 - 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

Name	Total Space	Used Space	Thin Provision
vol_SRM_LAB_STORAGE_02_dest	31 GB	848 MB	Yes
vol_SRM_POL_DEDUP_01_dest	30 GB	26 GB	Yes

Table 136 - 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 137 - NetApp Host - ONTAP-HQ-SAN

Volumes

Name	Total Space	Used Space	Thin Provision
DATA	10 GB	2 GB	No
HYPERV_QUORUM_STORAGE	15 GB	109 MB	No
HYPERV_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 138 - 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 139 - 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 140 - 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 141 - 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 142 - 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

Name	Total Space	Used Space	Thin Provision
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 143 - 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 144 - Isilon Host - PHARMAX-ISILON

Volumes

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

Table 145 - Isilon Volumes - PHARMAX-ISILON

1.5 Replication

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

Replication Inventory

Replicas	5
Failover Plans	3

Table 146 - Replication Inventory - VEEAM-VBR

1.5.1 Failover Plans

The following section details failover plan information from Veeam Server veeam-vbr.pharmax.local.

1.5.1.1 Cisco-CSR-FailoverPlan

Platform	VMWare
Status	Ready
Pre Failover Script Enabled	No

Pre Failover Command	-
Post Failover Script Enabled	No
Post Failover Command	-
VM Count	1
Description	Created by PHARMAX\administrator at 5/6/2022 11:54 AM.

Table 147 - Failover Plan - Cisco-CSR-FailoverPlan

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

VM Name	Boot Order	Boot Delay
Unknown	0	60

Table 148 - Virtual Machines - Cisco-CSR-FailoverPlan

1.5.1.2 HQ-To-DR-HV

Platform	HyperV
Status	Ready
Pre Failover Script Enabled	Yes
Pre Failover Command	predbsetup.ps1
Post Failover Script Enabled	Yes
Post Failover Command	postdbsetup.ps1
VM Count	1
Description	Created by PHARMAX\administrator at 5/8/2022 12:00 PM.

Table 149 - Failover Plan - HQ-To-DR-HV

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

VM Name	Boot Order	Boot Delay
Unknown	0	60

Table 150 - Virtual Machines - HQ-To-DR-HV

1.5.1.3 HQ-to-EDGE FailOver Plan

Platform	VMWare
Status	Ready
Pre Failover Script Enabled	No
Pre Failover Command	mysql
Post Failover Script Enabled	No
Post Failover Command	-
VM Count	2

Description	Created by PHARMAX\administrator at 5/5/2022 9:43 PM.

Table 151 - Failover Plan - HQ-to-EDGE FailOver Plan

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

VM Name	Boot Order	Boot Delay
Unknown	1	60
Unknown	0	60

Table 152 - Virtual Machines - HQ-to-EDGE FailOver Plan

1.6 Jobs Summary

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

1.6.1 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
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	Enabled	Failed	Yes
HyperV-Backup-Job	Hyper-V Backup	Disabled	Failed	No
Linux Agent Backup Job	Linux Agent Backup	Enabled	Failed	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	Enabled	Failed	Yes
WIN HyperV VM Backup	Hyper-V Backup	Enabled	Failed	Yes

Table 153 - Backup Jobs - VEEAM-VBR

1.6.2 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
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 154 - VMware Backup Summary - VEEAM-VBR

1.6.2.1 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 155 - 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

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

Table 156 - 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 157 - 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 158 - 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 159 - 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 160 - 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 161 - Advanced Settings (Integration) - Backup - Replicated VM - Cloud Virtualdcs

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 162 - Schedule Options - Backup - Replicated VM - Cloud Virtualdcs

1.6.2.2 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 163 - 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

Table 164 - 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 165 - 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 166 - 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 167 - Advanced Settings (Storage) - COMP-CLUSTER-NFS

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 168 - 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	12/24/2023 22:00:21

Table 169 - Schedule Options - COMP-CLUSTER-NFS

Backup Window Time Period

Permited \ 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 170 - Backup Window - COMP-CLUSTER-NFS

1.6.2.3 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 PM.
Modified By	PHARMAX\administrator

Table 171 - 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

Table 172 - 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 173 - 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 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	15

Table 174 - 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 175 - 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 176 - Advanced Settings (Notification) - PHARMAX-HQ-SVR

Advanced Settings (vSphere)

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

Table 177 - 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 178 - 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 179 - 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	Failed	Created by PHARMAX\administrator at 6/29/2021 7:24 PM.

Table 180 - 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
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:\superduperscript.cmd
Windows Post-thaw script	c:\superduperscriptpost.cmd

Table 181 - 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 182 - Guest Processing Options - Linux-Mon-01v

1.6.2.4 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 183 - 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

Table 184 - 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 185 - 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 186 - 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 187 - 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
Enable CBT for all protected VMs	Yes
Reset CBT On each Active Full Backup	Yes

Table 188 - 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 189 - 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 190 - 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 191 - Guest Processing Options - AD-LAB

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	12/24/2023 22:00:21

Table 192 - Schedule Options - SOBR - TEST

Backup Window Time Period

Permited \ 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 193 - Backup Window - SOBR - TEST

1.6.2.5 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 194 - 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

Table 195 - 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 196 - 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 197 - 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
Exclude Deleted Files Block	Yes
Compression Level	OPTIMAL (Default)
Storage optimization	Local target
Enabled Backup File Encryption	No
Encryption Key	None

Table 198 - 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 199 - 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 200 - 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 201 - Schedule Options - VM - Test - AWS

1.6.2.6 VM Copy Job 1

Common Information

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 202 - 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

Table 203 - 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 204 - 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 205 - 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 206 - 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 207 - Advanced Settings (vSphere) - VM Copy Job 1

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 208 - 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 209 - Guest Processing Options - csr-mapserver

Schedule

Retry Failed item	3
Wait before each retry	10/min
Backup Window	Yes
Shedule type	Minutes
Shedule Options	Full Period: 1, Hourly Offset: 0, Unit: Minutes
Start Time	10:00 PM
Latest Run	12/25/2023 17:34:15

Table 210 - Schedule Options - VM Copy Job 1

Backup Window Time Period

Permited \ 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 211 - Backup Window - VM Copy Job 1

1.6.3 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	06/30/2021 22:06:10	2
HYPERV-VEEAM-Win2016	12/15/2019 22:03:08	0

Name	Creation Time	VM Count
WIN HyperV VM Backup	12/26/2021 20:38:56	1

Table 212 - Hyper-V Backup Summary - VEEAM-VBR

1.6.3.1 HyperV-Backup-Job

Common Information

Name	HyperV-Backup-Job
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 213 - 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 214 - 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 Syntethic	Yes
Transform Increments To Syntethic	No
Transform To Syntethic 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 215 - 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 216 - 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 217 - 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 218 - Advanced Settings (Notification) - HyperV-Backup-Job

Advanced Settings (Hyper-V)

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

Table 219 - 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 220 - 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 221 - Advanced Settings (Script) - HyperV-Backup-Job

Secondary Target

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

Table 222 - 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

Table 223 - Guest Processing Options - LNX-WEB-01

1.6.3.2 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 224 - 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

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 225 - 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 Syntethic	Yes
Transform Increments To Syntethic	No

Transform To Syntethic 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 226 - 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 Day of Month: 1 Months: January February March April May June July August September October November December
Remove deleted item data after	14

Table 227 - 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 228 - 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 229 - 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 230 - Advanced Settings (Hyper-V) - WIN HyperV VM Backup

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 231 - 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 232 - Advanced Settings (Script) - WIN HyperV VM Backup

Secondary Target

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

Table 233 - 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 234 - 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 235 - 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 236 - Schedule Options - WIN HyperV VM Backup

Backup Window Time Period

Permited \ 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 237 - Backup Window - WIN HyperV VM Backup

1.6.4 Replication Jobs

The following section provide a summary about replication jobs

Name	Type	Status	Latest Result	Last Run
Cloud-Replication-Virtualdcs	VMware Replication	Enabled	Warning	12/22/2043 19:11:12
HVCluster-To-HVStandalone	Hyper-V Replication	Enabled	Warning	

Table 238 - Replication Jobs - VEEAM-VBR

1.6.5 VMware Replication Jobs Configuration

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

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

Table 239 - VMware Replication Summary - VEEAM-VBR

1.6.5.1 Cloud-Replication-Virtualdcs

Common Information

Name	Cloud-Replication-Virtualdcs
Type	VMware Replication
Total Backup Size	5 GB
Target Address	
Target File	replica
Description	Created by PHARMAX\administrator at 6/27/2022 4:44 PM.
Modified By	PHARMAX\administrator

Table 240 - Common Information - Cloud-Replication-Virtualdcs

Destination

Host or Cluster	vcenter-03v.pharmax.local vcenter-01v.pharmax.local

	vcenter-03v.pharmax.local vcenter-01v.pharmax.local
Resources Pool	
VM Folder	
Datastore	VCC-ZenPRSolutions-Replication Storage

Table 241 - Destination - Cloud-Replication-Virtualdcs

Network

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

Table 242 - Network Mappings - Cloud-Replication-Virtualdcs

Virtual Machines

Name	Resource Type	Role	Approx Size	Disk Filter Mode
csr-pharmax-hq	Virtual Machine	Include	1.5 GB	AllDisks

Table 243 - Virtual Machines - Cloud-Replication-Virtualdcs

Job Settings

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

Table 244 - 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 245 - 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 246 - Advanced Settings (Traffic) - Cloud-Replication-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 247 - 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 248 - 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 249 - Data Transfer - Cloud-Replication-Virtualdcs

Seeding

Seed from Backup Repository	Disabled
Map Replica to Existing VM	No

Table 250 - Seeding - Cloud-Replication-Virtualdcs

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 251 - Schedule Options - Cloud-Replication-Virtualdcs

1.6.6 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 252 - Hyper-V Replication Summary - VEEAM-VBR

1.6.6.1 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 253 - Common Information - HVCluster-To-HVStandalone

Destination

Host or Cluster	Hosts and VMs
Path	c:\replicas

Table 254 - Destination - HVCluster-To-HVStandalone

Network

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

Table 255 - 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 256 - 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 257 - 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 258 - 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 259 - Advanced Settings (Traffic) - HVCluster-To-HVStandalone

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 (Hyper-V)

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

Table 260 - 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 261 - 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 262 - 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 263 - Data Transfer - HVCluster-To-HVStandalone

Seeding

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

Table 264 - Seeding - HVCluster-To-HVStandalone

Guest Processing

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	01/01/0001 00:00:00

Table 265 - Schedule Options - HVCluster-To-HVStandalone

Backup Window Time Period

Permited \ 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 266 - Backup Window - HVCluster-To-HVStandalone

1.6.7 Tape Backup Jobs

The following section list 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	Success	WORM GFS Media Pool 1

Table 267 - Backup Jobs - VEEAM-VBR

1.6.8 Backup To Tape Job Configuration

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

1.6.8.1 PHARMAX-HQ-SVR-TAPE

Backups Information

Name	PHARMAX-HQ-SVR-TAPE
Type	BackupToTape
Total Backup Size	391 GB
Next Run	Disabled
Description	Created by PHARMAX\administrator at 6/29/2021 7:24 PM.

Table 268 - 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
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	361 GB	SOBR - Minio
WIN HyperV VM Backup	Backup Job	4 MB	SOBR - Minio

Table 269 - Backups Objects - PHARMAX-HQ-SVR-TAPE

Media Pool

Name	WORM GFS Media Pool 1
Pool Type	Gfs
Tape Count	5
Free Space	59 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 270 - Media Pool - PHARMAX-HQ-SVR-TAPE

Options

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

Table 271 - 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 272 - 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 273 - 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 274 - Schedule - PHARMAX-HQ-SVR-TAPE

1.6.9 File To Tape Job Configuration

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

1.6.9.1 File to Tape Job - Data Share

Backups Information

Name	File to Tape Job - Data Share
Type	FileToTape
Next Run	12/25/2023 18:00:00
Description	Created by PHARMAX\jocolon at 1/8/2022 1:02 PM.

Table 275 - 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 276 - 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 277 - 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 278 - 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 279 - 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 280 - 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 281 - Advanced Settings (Advanced) - File to Tape Job - Data Share

1.6.9.2 File to Tape Job - Server Share

Backups Information

Name	File to Tape Job - Server Share
Type	FileToTape
Next Run	12/30/2023 18:00:00
Description	Created by PHARMAX\administrator at 2/26/2022 6:01 PM.

Table 282 - 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

Name	Type	Selection Type	Path	Include Filter	Exclude Filter
\\server-dc-01v\UEMConfig	CifsShare	Directory	\\server-dc-01v\UEMConfig	-	-

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

Table 283 - 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 284 - 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 285 - 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 286 - 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 287 - 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 288 - Advanced Settings (Advanced) - File to Tape Job - Server Share

1.6.10 Agent Backup Jobs

The following section list 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 289 - Agent Backup Jobs - VEEAM-VBR

1.6.11 Agent Backup Jobs Configuration

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

1.6.11.1 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 290 - 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 291 - Protected Computers - Agent Backup Job 3

Backup Mode

Backup Mode	Entire Computer
Include external USB drives	No

Table 292 - Backup Mode - Agent Backup Job 3

Storage

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 293 - 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 294 - Secondary Destination Job - Agent Backup Job 3

Advanced Settings (Backup)

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

Table 295 - Advanced Settings (Backup) - Agent Backup Job 3

Advanced Settings (Maintenance)

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

Table 296 - 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 297 - 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 298 - 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 299 - Advanced Settings (Integration) - Agent Backup Job 3

Advanced Settings (Script)

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

Table 300 - Advanced Settings (Script) - Agent Backup Job 3

Guest Processing

Enabled Application Process Processing	Yes
Enabled Guest File System Indexing	No

Table 301 - 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 302 - Schedule Options - Agent Backup Job 3

1.6.11.2 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 303 - 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 304 - Protected Computers - Agent Backup Policy 2

Backup Mode

Backup Mode	Entire Computer
Include external USB drives	No

Table 305 - 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 306 - 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 307 - Secondary Destination Job - Agent Backup Policy 2

Advanced Settings (Backup)

Syntethic Full Backup	-
Active Full Backup	No

Table 308 - Advanced Settings (Backup) - Agent Backup Policy 2

Advanced Settings (Maintenance)

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

Table 309 - 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 310 - 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 311 - Advanced Settings (Notification) - Agent Backup Policy 2

Guest Processing

Enabled Application Process Processing	Yes
Enabled Guest File System Indexing	Yes

Table 312 - Guest Processing Options - Agent Backup Policy 2

Schedule

Schedule type	
Schedule Options	
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 313 - Schedule Options - Agent Backup Policy 2

1.6.11.3 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 314 - 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 315 - Protected Computers - Gurabo PC - Backup Job

Backup Mode

Backup Mode	Entire Computer
Include external USB drives	No

Table 316 - 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 317 - 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	Failed	Created by PHARMAX\administrator at 6/29/2021 7:24 PM.

Table 318 - Secondary Destination Job - Gurabo PC - Backup Job

Advanced Settings (Backup)

Syntethic Full Backup	No
Active Full Backup	No

Table 319 - 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 320 - 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 321 - Advanced Settings (Storage) - Gurabo PC - Backup Job

Advanced Settings (Notification)

Send Snmp Notification	-
Send Email Notification	-

Table 322 - Advanced Settings (Notification) - Gurabo PC - Backup Job

Backup Cache

Maximun Size	Type	Path
10 GB	Automatic	Auto Selected

Table 323 - Backup Cache - Gurabo PC - Backup Job

Schedule

Schedule type	Daily
Schedule Options	Recurrence: WeekDays, Days: Monday Tuesday Wednesday Thursday Fridayr 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 324 - Schedule Options - Gurabo PC - Backup Job

1.6.11.4 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 325 - 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 326 - Protected Computers - Linux Agent Backup Job

Backup Mode

Backup Mode	Entire Computer
Include external USB drives	No

Table 327 - 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 328 - Destination - Linux Agent Backup Job

Secondary Target

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

Table 329 - Secondary Destination Job - Linux Agent Backup Job

Advanced Settings (Backup)

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

Table 330 - Advanced Settings (Backup) - Linux Agent Backup Job

Advanced Settings (Maintenance)

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

Table 331 - 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 332 - 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 333 - Advanced Settings (Notification) - Linux Agent Backup Job

Advanced Settings (Script)

Run the Following Script Before	Yes
Run the Following Script After	Yes
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 334 - 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 335 - Schedule Options - Linux Agent Backup Job

1.6.11.5 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 336 - 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

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

Table 337 - Protected Computers - Server With Netapp LUNS - Backup

Backup Mode

Backup Mode	Entire Computer
Include external USB drives	No

Table 338 - 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 339 - Destination - Server With Netapp LUNS - Backup

Secondary Target

Job Name	Type	State	Description
PHARMAX-HQ-SVR-TAPE	Backup to Tape	Failed	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 340 - Secondary Destination Job - Server With Netapp LUNS - Backup

Advanced Settings (Backup)

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

Table 341 - 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 342 - 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 343 - 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 344 - 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 345 - 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 346 - Advanced Settings (Script) - Server With Netapp LUNS - Backup

Guest Processing

Enabled Application Process Processing	Yes
Enabled Guest File System Indexing	No

Table 347 - Guest Processing Options - Server With Netapp LUNS - Backup

Schedule

Retry Failed item	3

Wait before each retry	1/min
Backup Window	No
Schedule type	After Job
Schedule Options	COMP-CLUSTER-NFS

Table 348 - Schedule Options - Server With Netapp LUNS - Backup

1.6.12 File Share Backup Jobs

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

Name	Type	Status	Latest Result	Last Run
File Backup Job 1	File Backup	Enabled	Failed	12/24/2023 22:22:41
Server - Share Backup	File Backup	Enabled	Failed	12/23/2023 22:39:23

Table 349 - File Share Backup Jobs - VEEAM-VBR

1.6.13 File Share Backup Jobs Configuration

The following section details the configuration of File Share type backup jobs.

1.6.13.1 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 350 - 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

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="*.*" /></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 351 - 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 352 - Files and Folders - PHARMAX-ISILON

Storage

Backup Repository	SOBR - Minio
Keep all file versions for the last	28 Day
Keep previous file versions for	3 Year
Archive repository	Linux - Hardened Repository
File to Archive	All file exept the following extension: *.tmp *.ods

Table 353 - Storage Options - File Backup Job 1

Advanced Settings (File Version)

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 354 - Advanced Settings (File Version) - 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 355 - 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 356 - 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 357 - Advanced Settings (Notification) - File Backup Job 1

Advanced Settings (Script)

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 358 - Advanced Settings (Script) - File Backup Job 1

Secondary Target

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

Table 359 - Secondary Destination Jobs - File Backup Job 1

Schedule

Retry Failed item	3
Wait before each retry	10/min
Backup Window	Yes
Shedule type	Daily
Shedule Options	Kind: Everyday, Days: Sunday Monday Tuesday Wednesday Thursday Friday Saturday
Start Time	10:00 PM
Latest Run	12/24/2023 22:00:21

Table 360 - Schedule Options - File Backup Job 1

Backup Window Time Period

Permited \ 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 361 - Backup Window - File Backup Job 1

1.6.13.2 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 362 - 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-01v\UEMConfig
Resource Type	
Role	Include
Location	\\server-dc-01v\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-01v\UEMConfig\.snapshot" /><NasBackupMask Type="Path" Path="\\server-dc-01v\UEMConfig\~snapshot" /><NasBackupMask Type="Path" Path="\~snapshot" /></NasBackupMasks>

Table 363 - Files and Folders - \\server-dc-01v\UEMConfig

Storage

Backup Repository	SOBR - Minio
Keep all file versions for the last	28 Day
Keep previous file versions for	3 Year
Archive repository	HQ - Backups
File to Archive	All Files: *.*

Table 364 - Storage Options - Server - Share Backup

Advanced Settings (File Version)

File version to keep	Keep all file versions

Table 365 - Advanced Settings (File Version) - Server - Share Backup

Advanced Settings (Storage)

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

Table 366 - 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 367 - 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 368 - 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 369 - Advanced Settings (Script) - Server - Share Backup

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	12/23/2023 22:00:02

Table 370 - Schedule Options - Server - Share Backup

Backup Window Time Period

Permited \ 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 371 - Backup Window - Server - Share Backup

1.6.14 Backup Copy Jobs

The following section list 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	Enabled	Failed	Periodically

Table 372 - Backup Copy Jobs - VEEAM-VBR

1.6.15 Backup Copy Jobs Configuration

The following section details the configuration of backup copy jobs.

1.6.15.1 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	12/31/2023 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 373 - 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

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

Table 374 - 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 375 - 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 376 - 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 377 - 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 378 - 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 379 - 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 380 - Advanced Settings (Script) - Backup Copy Job 1

Data Transfer

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

Table 381 - 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
Shedule type	Periodically
Shedule Options	Continuously

Table 382 - Schedule Options - Backup Copy Job 1

1.6.15.2 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 383 - 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 384 - Backup Jobs Objects - Backup Copy Job 4

Repositories Objects

Name	Type	Size
HQ - Backups	Standard	199 Gb

Table 385 - 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 386 - Target Options - Backup Copy Job 4

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 387 - 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 388 - 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 389 - 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 390 - 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 391 - Advanced Settings (Script) - Backup Copy Job 4

Data Transfer

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

Table 392 - 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
Shedule type	AfterJob

Shedule Options	After Job: Backup - Replicated VM - Cloud Virtualdcs

Table 393 - Schedule Options - Backup Copy Job 4

Backup Window Time Period

Permited \ 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 394 - Backup Window - Backup Copy Job 4

1.6.15.3 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 395 - 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 396 - 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 397 - 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 398 - 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 399 - 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 400 - 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 401 - 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 402 - Advanced Settings (Script) - Backup Copy Job 5

Data Transfer

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

Table 403 - Data Transfer - Backup Copy Job 5

Schedule

Retry Failed Enabled?	Yes
Retry Failed item processing	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, At 22:00:00,

Table 404 - Schedule Options - Backup Copy Job 5

Backup Window Time Period

Permited \ 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																								

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
Sat																								

Table 405 - Backup Window - Backup Copy Job 5

1.6.15.4 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 406 - 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 407 - 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 408 - 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 409 - 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 410 - 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 411 - 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 412 - Advanced Settings (Script) - HPE-StoreOnce-Copy-Job

Data Transfer

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

Table 413 - 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
Shedule type	Periodically
Shedule Options	Continuously

Table 414 - Schedule Options - HPE-StoreOnce-Copy-Job

1.6.15.5 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	12/31/2023 00:00:00
Include database transaction log backup	No
Description	-
Modified By	PHARMAX\administrator

Table 415 - 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 416 - Backup Jobs Objects - Hyper-V-Backup-Copy

Repositories Objects

Name	Type	Size
SOBR - Minio	ScaleOut	499 GB

Name	Type	Size
VEEAM-DD	Standard	351 Gb

Table 417 - 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 418 - 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 419 - 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 420 - 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 421 - 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 422 - 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 423 - 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

Table 424 - 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 425 - Schedule Options - Hyper-V-Backup-Copy