Vembu BDR Suite vs Altaro

VEMBU TECHNOLOGIES
www.vembu.com

TRUSTED BY OVER 60,000 BUSINESSES

© Vembu Technologies

About Vembu

Vembu Technologies is a well known technology innovator in offering Backup & Disaster Recovery (BDR) product targeted at IT-Administrators in large, medium and small businesses to protect their VMware, Hyper-V and Physical environments.

Vembu BDR Suite (VMBackup, ImageBackup, NetworkBackup, OnlineBackup & SaaSBackup) which provides a universal backup solution that is easy to use, affordable, reliable and faster when compared to other backup software vendors. Vembu provides a multi-tenant architecture which supports virtualized environments like VMware vSphere, Microsoft Hyper-V, KVM, Citrix Xen Server and other hypervisors and also Windows, Linux and MAC OS.

Highlights

Features	Vembu BDR Suite	Altaro	Notes
All-in-One Backup & Disaster Recovery Solution	☑	X	One stop solution for all your Backup and DR needs. Vembu supports image Backups for VMware, Hyper-V & Physical Windows Servers as well as Workstations. Vembu also supports granular backups such as File/Folder backup and Application backups
Agentless VMware & Hyper-V Backup	☑	☑	Backup all the VMs running on VMware & Hyper-V environments without installing any agent on each VM
Avoid data loss after DR	☑	☑	RPO < 15 mins which is lesser than the industry benchmark
Quick VM Recovery	☑	☑	Ensure RTO < 15 mins by Instantly recovering the backed up VMs and Physical Windows machines on ESXi host or Hyper-V or KVM
Persistent Backups	☑	☑	Changes made on instantly recovered VMs and Physical Windows machines are stored separately and can be restored later to production environment, if required.
Instant File Recovery	☑	☑	Instantly restore selected files and folders alone without restoring entire VM or physical machine
Virtual Lab	☑	☑	Create a virtual lab without spending additional cost. You can instantly boot backed up images virtually on hypervisors like ESXi host, Hyper-V and KVM from backup storage repositories and run tests on the VM
Migration Plans (P2V, V2V and V2P)	☑	X	Migrate physical machines to virtual environments like VMware or Hyper-V or migrate VMs from one hypervisor to another or migrate VM to physical environment with less downtime

☑ Fully Supported ◉ Partially Supported X Not Supported Under Development

© Vembu Technologies

Features	Vembu BDR Suite	Altaro	Notes
Efficient Storage Repository Management	☑	X	Vembu uses its own VembuHIVE file systems on top of the storage targets to enhance the performance and scalability of the storage targets. It has built-in version control, deduplication (elimination of redundant information to enhance storage reduction), encryption and built-in error correction.
Storage Grouping	☑	☑	You can use any kind of storage devices such as Local, SAN, NAS and DAS for storage purpose and Vembu supports all such filesystems for storage purpose
Scale-out storage repositories	☑	☑	You can easily scale-out the storage devices based on storage utilization
Backup image verification	☑	☑	Automatically test and verify every backed up VM and physical machine for recoverability by running the VM directly from backup file (no full VM restore is required). Screen shot will be sent to you.
Hybrid cloud deployment	☑	☑	You can keep multiple backup copies. One copy at your site and another copy to Vembu Cloud or your own data center

☑ Fully Supported ◉ Partially Supported X Not Supported 🔧 Under Development

© Vembu Technologies

RECOVERY

INSTANT RECOVERY

Features	Vembu BDR Suite	Altaro	Notes
Quick VM Recovery on VMware ESXi host	☑	☑	Instantly recover the backed up VMs, physical windows servers and workstations on ESXi host as a VM
Quick VM Recovery on Microsoft Hyper-V host	☑	☑	Instantly recover the backed up VMs, physical windows servers and workstations on Hyper-V host as a VM
Quick VM Recovery on KVM host	☑	X	Instantly recover the backed up VMs, physical windows servers and workstations on KVM host as a VM

ITEM LEVEL RECOVERY

Features	Vembu BDR Suite	Altaro	Notes
Instant File Recovery	☑	☑	Instantly restore selected files and folders from backed up VMs and physical machines without restoring entire machine
Instant Granular Recovery for Microsoft Exchange	☑	☑	Restore individual mails or mail boxes instantly by using Vembu Explorer for Microsoft Exchange
Instant Granular Recovery for Microsoft SQL	☑	X	Restore individual databases or tables instantly by using Vembu Explorer for Microsoft SQL
Instant Granular Recovery for Microsoft SharePoint	☑	X	Restore individual sites or documents instantly by using Vembu Explorer for Microsoft SharePoint
Instant Granular Recovery for Microsoft Active Directory	☑	X	Restore Active Directory object types instantly by using Vembu Explorer for Microsoft Active Directory
Instant Granular Recovery for Oracle	🔧	X	Restore individual databases or tables instantly by using Vembu Explorer for Oracle Databases

☑ Fully Supported ◉ Partially Supported X Not Supported 🔧 Under Development

© Vembu Technologies

PERMANENT RECOVERY

Features	Vembu BDR Suite	Altaro	Notes
Permanent VM Recovery on VMware ESXi host or vCenter Server	☑	☑	Restore backed up VMs and physical windows machines permanently to the VMware ESXi host or vCenter Server
Permanent VM Recovery on Hyper-V host	☑	☑	Restore backed up VMs and physical windows machines permanently to the Hyper-V host
Permanent VM Recovery on KVM host	☑	X	Restore backed up VMs and physical windows machines permanently to KVM host
VM disk level recovery	☑	X	Restore any selected disks to the same or different VMs
Bare-metal recovery	☑	X	Perform bare-metal recovery of backed up physical machine by using Vembu Recovery CD

Disaster Recovery

Features	Vembu BDR Suite	Altaro	Notes
VM replication	☑	X	Replicate VMware VMs to target ESXi host in standby mode
Backup replication	☑	☑	Replicate backup jobs to Vembu Cloud or your own data center
Off-Site Datacenter	☑	☑	Replicate backup data to your off-site datacenter over WAN
Cloud replication	☑	☑	Replicate backup data to Vembu Cloud
WAN optimization	☑	☑	Since, all backups are deduplicated on the backup server, only the compressed, encrypted and deduplicated blocks are now sent offsite for replication, resulting a significant decrease in the bandwidth utilization
Failover & Failback	☑	X	Instantly failover the VM during disaster and failback the VM when source environment is ready

☑ Fully Supported ◉ Partially Supported X Not Supported Under Development

© Vembu Technologies

Migration

Features	Vembu BDR Suite	Altaro	Notes
P2V	☑	X	Migrate a physical machine into VMware ESXi host or Microsoft Hyper-V or KVM host
V2V	☑	X	Migrate a VM from VMware ESXi to Microsoft Hyper-V or KVM host and vice versa
V2P	☑	X	Migrate VM to physical environment

☑ Fully Supported ◉ Partially Supported X Not Supported Under Development

© Vembu Technologies

Backup

Supported Hypervisors for VM Backup

Features	Vembu BDR Suite	Altaro	Notes
VMware vSphere	☑	☑	Backup VMs running on VMware ESXi host and vCenter
Microsoft Hyper-V	☑	☑	Backup VMs running on Microsoft Hyper-V host
KVM	◉	X	Backup VMs running on KVM host
XenServer	◉	X	Backup VMs running on XenServer
Oracle VirtualBox	◉	X	Backup VMs running on Oracle VirtualBox

Supported Physical Environment for Disk Image Backup

Features	Vembu BDR Suite	Altaro	Notes
Windows Physical Servers & Workstations	☑	X	Backup entire image including OS, applications & files of the Windows Servers, Desktops and Laptops (Workstation)

Supported Environment for File & Application Level Backup

Features	Vembu BDR Suite	Altaro	Notes
Windows	☑	X	Backup files, folders and applications alone from Windows Servers and Workstations
Linux	☑	X	Backup files, folders and applications alone from all flavors of Linux environment
Mac	☑	X	Backup files and folders from Mac machines

☑ Fully Supported ◉ Partially Supported X Not Supported Under Development

© Vembu Technologies

Supported environment for SaaS Application Backup

Features	Vembu BDR Suite	Altaro	Notes
Microsoft Office 365	☑	X	Backup exchange online users and OneDrive for business from Office 365
Google Apps (now G Suite)	☑	X	Backup Gmail, Drive and Calendars from Google Apps (now G Suite)

Backup Technology

Features	Vembu BDR Suite	Altaro	Notes
Agentless VM Backup	☑	☑	VMs from VMware and Hyper-V will be backed up without installing any agents in each VM
In-guest VM Backup	☑	X	For other hypervisors like Xen, KVM and Oracle VirtualBox, an agent needs to be installed on each VM
Disk Image Backup	☑	X	Backup entire disk image of the physical Windows machines
File Backup (Granular Backup)	☑	☑	Supports selected files and folders and applications such as Exchange, SQL, AD, Outlook, MySQL, etc. backup.
Application level backup (Granular Backup)	☑	X	Backup the applications alone from any physical machine or VM.
SaaS Application Backup	☑	X	Backup SaaS applications like Office 365 and Google Apps (now G Suite)

☑ Fully Supported ◉ Partially Supported X Not Supported Under Development

© Vembu Technologies

Backup Method

Features	Vembu BDR Suite	Altaro	Notes
Full Backups	☑	☑	Backup full image of the source machine during initial full backup.
Incremental (Changed Block Tracking)	☑	☑	During incremental, Vembu tracks the changed blocks alone
Differential	☑	X	During incremental, backup the differential data of some applications like MS Exchange, SQL and etc.
Forever Incremental	☑	☑	Eliminate the need for periodic full backups by creating “forever incremental” backups that save time and storage.
Advanced Reverse Incremental	☑	◉	Since Vembu has its own file system VembuHIVE on storage targets, it creates bootable full virtual disks (VMDK, VHD and KVM) for all recovery points without using any additional resources.
Synthetic Full Backups	☑	☑	Periodically merges the incremental to eliminate the identical blocks and the storage will be efficiently used
Application-aware Image Based Backups	☑	X	Create application consistent, image-level backups with advanced Application-Aware processing (including transaction log truncation).

Application Consistency

Features	Vembu BDR Suite	Altaro	Notes
Active Directory	☑	☑	Active Directory running on VM and physical machine
MS Exchange	☑	☑	MS Exchange running on VM and physical machine
MS SharePoint	☑	☑	MS SharePoint running on VM and physical machine

☑ Fully Supported ◉ Partially Supported X Not Supported Under Development

© Vembu Technologies

Application Consistency

Features	Vembu BDR Suite	Altaro	Notes
MS SQL	☑	☑	MS SQL running on VM and physical machine
Oracle DB	🔧	X	Oracle DB running on VM and physical machine
Post/Pre Backup scripts	🔧	X	Run any commands or scripts before or after backup job

VMware Backup & Recovery

Features	Vembu BDR Suite	Altaro	Notes
Agentless VMware Backup	☑	☑	Backup the VMs without installing any agent on VM or ESXi host
Backup Multiple VMs in a single backup job	☑	☑	Group of VMs can be backed up in a single backup job. VM data will be processed one by one.
Backup VMs with Pass-Through disks	☑	X	To backup the VMs which has pass-through disk, an agent needs to installed inside the VM
Backup VMs with RDM (Raw Device Mapping) disks	☑	X	To backup the VMs which has RDM, an agent needs to installed inside the VM
Exclude Disks from VM Backup	☑	☑	Specific disk(s) can be excluded from VM
Near CDP (Continuous Data Protection)	☑	☑	Incremental backup can be scheduled every 15 mins to ensure the RPO < than 15 mins
Changed Block Tracking (Incremental)	☑	☑	Vembu uses VMware's CBT technology to track the changed block during each incremental backup
Forever Incremental	☑	☑	After initial full backup, you can run forever incremental backup
Advanced Reverse Incremental	☑	◉	Since Vembu has its own file system VembuHIVE on storage targets, it creates bootable full virtual disks (VMDK, VHD and KVM) for all recovery points without using any additional resources.

☑ Fully Supported ◉ Partially Supported X Not Supported 🔧 Under Development

© Vembu Technologies

Features	Vembu BDR Suite	Altaro	Notes
GFS Retention	☑	X	Supports Grandfather-Father-Son retention policy to keep backup data for long time data archival.
SAN transport mode	☑	☑	If VMware & BDR environments are connected through SAN, Vembu uses SAN transport mode by default.
Hot-add transport mode	☑	☑	If BDR backup server is deployed in anyone of the VMs on an ESXi host, then hot-add transport mode will be selected
Network transport mode	☑	☑	If both the above transport modes are not available, Vembu uses network transport mode
Application aware backup processing	☑	☑	Vembu injects a script file inside the VMs having MS Exchange, SQL, SharePoint and AD to ensure the consistency of the MS applications
Truncate Exchange logs	☑	☑	Option to truncate exchange transactions logs after successful backup
Automated Backup Verification	☑	☑	Verify the recoverability of the backed up VMs and screenshot of the booted VM will be mailed
Quick VM Recovery on VMware ESXi host	☑	☑	Instantly recover the backed up VM on ESXi host
Quick VM Recovery on Microsoft Hyper-V host	☑	☑	Instantly recover the backed up VM on Hyper-V host
Quick VM Recovery on KVM host	☑	X	Instantly recover the backed up VM on KVM host
Backup persistent data	☑	☑	All modified data from instantly booted VM will be stored and it can be included during permanent VM recovery
Instant File Recovery	☑	☑	Instantly recover the selected files and folders without restoring entire VM
Instant Granular Recovery for Microsoft Exchange	☑	☑	Instantly restore individual exchange mails or user mailboxes without restoring entire VM
Instant Granular Recovery for Microsoft SQL	☑	X	Instantly restore the individual databases or tables without restoring entire VM
Instant Granular Recovery for Microsoft SharePoint	☑	X	Instantly restore the sharepoint sites and documents without restoring entire sharepoint VM

☑ Fully Supported ◉ Partially Supported X Not Supported Under Development

© Vembu Technologies

Features	Vembu BDR Suite	Altaro	Notes
Instant Granular Recovery for Microsoft Active Directory	☑	X	Instantly restore the user roles and other AD objects with restoring entire AD VM
Permanent VM Recovery on VMware ESXi host or vCenter Server	☑	☑	Restore the backed up VM permanently to the same or different ESXi hosts or vCenter server
VM disk level recovery	☑	X	Restore individual disks to the same or different VM
V2V Migration	☑	X	Migrate VMs from VMware environment to other hypervisors like Hyper-V or KVM
V2P Migration	☑	X	Migrate VMs from VMware environment to physical machine

VMware VM Replication

Features	Vembu BDR Suite	Altaro	Notes
Agentless VM Replication	☑	X	Agentless VM replication from one ESXi host to another ESXi host
Changed Block Tracking (Incremental)	☑	X	Vembu uses VMware's CBT technology to track the changed block during each incremental backup
IP & Network remapping	☑	X	Specify the IP & Network configuration, which needs to be used for the replicated VMs on target host
Retention	☑	X	Retain upto 7 recovery points on target host
Failover & Failback	☑	X	Instantly failover the replicated VM or target host and failback the failover VM to source host
Planned Failover	🔧	X	Automate the failover process using planned failover feature

☑ Fully Supported ◉ Partially Supported X Not Supported 🔧 Under Development

© Vembu Technologies

Hyper-V Backup & Recovery

Features	Vembu BDR Suite	Altaro	Notes
Agentless Hyper-V Backup	☑	☑	Backup the VMs without installing any agent on VM
Backup Multiple VMs in a single backup job	☑	☑	Group of VMs can be backed up in a single backup job. VM data will be processed one by one.
Backup VMs with Pass-Through disks	☑	X	To backup the VMs which has pass-through disk, an agent needs to installed inside the VM
Backup VMs with RDM (Raw Device Mapping) disks	☑	X	To backup the VMs which has RDM, an agent needs to installed inside the VM
Backup VM disks stored in CSV	☑	☑	Backup VMs which has the VM data on CSV
Backup VM disks stored in Windows SMB share	☑	☑	Backup VMS which has the VM data on Windows SMB share
Backup Hyper-V Cluster	🔧	☑	Backup Hyper-V cluster environment
Exclude Disks from VM Backup	☑	☑	Specific disk(s) can be excluded from VM
Near CDP (Continuous Data Protection)	☑	☑	Incremental backup can be scheduled every 15 mins to ensure the RPO < 15 mins
Changed Block Tracking (Incremental)	☑	☑	Vembu uses its own CBT driver to track the changed block during each incremental backup
Forever Incremental	☑	☑	After initial full backup, you can run forever incremental backup
Advanced Reverse Incremental	☑	◉	Since Vembu has its own file system VembuHIVE on storage targets, it creates bootable full virtual disks (VMDK, VHD and KVM) for all recovery points without using any additional resources.
GFS Retention	☑	X	Supports Grandfather-Father-Son retention policy to keep backup data for long time data archival.
Application aware backup processing	☑	☑	Vembu uses VSS to ensure the consistency of the VMs having MS Exchange, SQL, SharePoint and AD

☑ Fully Supported ◉ Partially Supported X Not Supported 🔧 Under Development

© Vembu Technologies

Features	Vembu BDR Suite	Altaro	Notes
Truncate Exchange logs	☑	☑	Option to truncate exchange transactions logs after successful backup
Automated Backup Verification	☑	☑	Verify the recoverability of the backed up VMs and screenshot of the booted VM will be mailed
Quick VM Recovery on Microsoft Hyper-V host	☑	☑	Instantly recover the backed up VM on Hyper-V host
Quick VM Recovery on VMware ESXi host	☑	☑	Instantly recover the backed up VM on ESXi host
Quick VM Recovery on KVM host	☑	X	Instantly recover the backed up VM on KVM host
Backup persistent data	☑	☑	All modified data from instantly booted VM will be stored and it can be included during permanent VM recovery
Instant File Recovery	☑	☑	Instantly recover the selected files and folders without restoring entire VM
Instant Granular Recovery for Microsoft Exchange	☑	☑	Instantly restore individual exchange mails or user mailboxes without restoring entire VM
Instant Granular Recovery for Microsoft SQL	☑	X	Instantly restore the individual databases or tables without restoring entire VM
Instant Granular Recovery for Microsoft SharePoint	☑	X	Instantly restore the sharepoint sites and documents without restoring entire sharepoint VM
Instant Granular Recovery for Microsoft Active Directory	☑	X	Instantly restore the user roles and other AD objects with restoring entire AD VM
Permanent VM Recovery on Hyper-V host	☑	☑	Restore the backed up VM permanently to the same or different Hyper-V host
VM disk level recovery	☑	X	Restore individual disks to the same or different VM
V2V Migration	☑	X	Migrate VMs from Hyper-V environment to other hypervisors like VMware or KVM
V2P Migration	☑	X	Migrate VMs from Hyper-V environment to physical machine

☑ Fully Supported ◉ Partially Supported X Not Supported 🔧 Under Development

© Vembu Technologies

Physical Windows Servers and Workstations Backup & Recovery

Features	Vembu BDR Suite	Altaro	Notes
Disk Image Backup	☑	X	Install an agent in each physical Windows Servers and Workstations to backup entire image of the machines
Backup entire machine (all disks and drives)	☑	X	Backup entire image (including OS, applications and data) of the Windows Servers and Workstations in physical environments
Backup selected disks and drives	☑	X	Backup selected disks and drives alone
Backup GPT Partitions	☑	X	Backup physical machines which has GPT partitions
Backup disks more than 2 TB	☑	X	Supports disks more than 2 TB
Near CDP (Continuous Data Protection)	☑	X	Incremental backup can be scheduled every 15 mins to ensure the RPO < than 15 mins
Changed Block Tracking (Incremental)	☑	X	Vembu uses its own CBT driver to track the changed block during each incremental backup
Forever Incremental	☑	X	After initial full backup, you can run forever incremental backup
Advanced Reverse Incremental	☑	X	Since Vembu has its own file system VembuHIVE on storage targets, it creates bootable full virtual disks (VMDK, VHD and KVM) for all recovery points without using any additional resources.
GFS Retention	☑	X	Supports Grandfather-Father-Son retention policy to keep backup data for long time data archival.
Application aware backup processing	☑	X	Vembu uses VSS to ensure the consistency of the VMs having MS Exchange, SQL, SharePoint and AD
Truncate Exchange logs	☑	X	Option to truncate exchange transactions logs after successful backup
Automated Backup Verification	☑	X	Verify the recoverability of the backed up VMs and screenshot of the booted VM will be mailed
Bare-metal Recovery (BMR)	☑	X	Recover the backed up data to another hardware using Vembu Recovery CD

☑ Fully Supported ◉ Partially Supported X Not Supported 🔧 Under Development

© Vembu Technologies

Features	Vembu BDR Suite	Altaro	Notes
Dissimilar Hardware Recovery	✗	✗	Recover the backed up data to different hardware
Quick VM Recovery on Microsoft Hyper-V host	☑	✗	Instantly recover the backed up VM on Hyper-V host
Quick VM Recovery on VMware ESXi host	☑	✗	Instantly recover the backed up VM on ESXi host
Quick VM Recovery on KVM host	☑	✗	Instantly recover the backed up VM on KVM host
Backup persistent data	☑	✗	All modified data from instantly booted VM will be stored and it can be included during permanent VM recovery
Instant File Recovery	☑	✗	Instantly recover the selected files and folders without restoring entire machine
Instant Granular Recovery for Microsoft Exchange	☑	✗	Instantly restore individual exchange mails or user mailboxes without restoring entire machine
Instant Granular Recovery for Microsoft SQL	☑	✗	Instantly restore the individual databases or tables without restoring entire machine
Instant Granular Recovery for Microsoft SharePoint	☑	✗	Instantly restore the sharepoint sites and documents without restoring entire sharepoint machine
Instant Granular Recovery for Microsoft Active Directory	☑	✗	Instantly restore the user roles and other AD objects with restoring entire AD machine
Disk level recovery	☑	✗	Restore individual disks to the same or different machine
P2V Migration	☑	✗	Migrate the backed up physical Windows Servers and Workstations to virtual environments such as, VMware, Hyper-V or KVM

☑ Fully Supported ◉ Partially Supported ✗ Not Supported Under Development

© Vembu Technologies

File Backup

Features	Vembu BDR Suite	Altaro	Notes
Backup files & folders from Windows Server & Workstations	☑	X	Backup selected files and folders of all Windows OS
Backup files & folders from Linux machine	☑	X	Backup files and folders from all flavors of Linux OS
Backup files & folders from Mac machine	☑	X	Backup files and folders from Mac machines
Include/Exclude files & folders	☑	X	Include/exclude the specific files and folders or specific file formats.
Efficient Automatic Scheduling	☑	X	Runs backup as per the schedule to keep up-to-date data by running incrementals
Backup Schedule Window	☑	X	User can block the backup schedule from running for the certain periods
Bandwidth Throttling for Backups	☑	X	Set bandwidth throttling for the particular backups which help to reduce the network traffic during peak timing
Seed Backup	☑	X	Seed backup option allows you to take full backup locally and later transfer the full backup data to an offsite backup server through any secondary medium such as external hard drive. It prevents the large amount of data to be transferred through internet which takes more time to finish the job.
Advanced Retention Policies	☑	X	Supports version based and time based retention policy and option to keep deleted files for selected time period.
Version Based Restore Point	☑	X	Recover your backup data from any particular restore point of the backup
Client Side Restore	☑	X	Each user gets his own web GUI to restore the backed up files and folders

☑ Fully Supported ◉ Partially Supported X Not Supported Under Development

© Vembu Technologies

Application Backup

Features	Vembu BDR Suite	Altaro	Notes
Microsoft Exchange Server	☑	X	Backup selected Microsoft Exchange Store(s)
Microsoft Exchange Mailbox	☑	X	Backup selected Exchange mailboxes
Microsoft SQL	☑	X	Backup selected SQL database(s)
Microsoft SharePoint	☑	X	Backup selected SharePoint site(s)
System state Backup	☑	X	Backup the System State data such as the boot files and active directory which can be used to recover critical system components in case of a crash
Registry Backup	☑	X	Backup of any registry from the system hierarchy
Microsoft Outlook	☑	X	Backup Microsoft Outlook
MySQL	☑	X	Backup selected MySQL database(s)
Oracle	🔧	X	Backup selected Oracle database(s)
PostgreSQL	🔧	X	Backup selected PostgreSQL database(s)
cPanel Backup	🔧	X	Backup cPanel domains
Granular Recovery for Application Backups	☑	X	Allows granular level recovery of MS Exchange Server, MS SQL Server and MS Sharepoint data from the backups without having to restore the full databases

☑ Fully Supported ◉ Partially Supported X Not Supported 🔧 Under Development

© Vembu Technologies

SaaS Application Backup

Features	Vembu BDR Suite	Altaro	Notes
Agentless Office 365 and Google Apps (now G Suite) Backup	☑	X	Vembu SaaSbackup is the secured cloud-based backup solution which is deployed in Amazon Web Services. Vembu SaaSBackup uses advanced REST APIs to backup Office 365 and Google Apps (now G Suite) and hence you don't need to install any client side software in your machine to backup Office 365 and Google Apps (now G Suite).
Exchange Online Backup	☑	X	Backup the entire exchange online domain including all users' email accounts or individual user's email account to Vembu Cloud. It backs up inbox, sent items and other custom labels of exchange online email
OneDrive for Business Backup	☑	X	Backup all documents from OneDrive to Vembu Cloud. It backs up text documents, spreadsheets, presentations, photos, pdfs etc. from Office 365 OneDrive to Vembu Cloud.
Gmail Backup	☑	X	Backup inbox, sent items and other custom labels of Gmail account
Google Drive Backup	☑	X	Backup all documents from Google Drive to Vembu Cloud. It backs up photos, pdf, text documents, spreadsheets, presentations, forms and etc. from Google Drive to Vembu Cloud
Backup Contacts and Calendar	☑	X	Backup the contacts and calendar of Office 365 and Google Apps (now G Suite) user accounts to Vembu Cloud
Mail Level Restore	☑	X	From Vembu SaaSBackup's customer portal, users can do Office 365 mail level restore to same or different user account
View Emails	☑	X	Users can view the individual backed up emails from Vembu SaaSBackup customer portal
Automatic Backups	☑	X	Automatically triggers the incremental backup as per the schedule time

☑ Fully Supported ◉ Partially Supported X Not Supported Under Development

© Vembu Technologies

Storage Repository

Storage Space Optimization

Features	Vembu BDR Suite	Altaro	Notes
Compression	☑	☑	Backup data is compressed at source machine and also at rest on storage target
Deduplication	☑	☑	Backup data will be further deduplicated at rest on storage target

Data Security

Features	Vembu BDR Suite	Altaro	Notes
End-to-end Encryption	☑	☑	Backup data is encrypted using AES 256 bit encryption algorithm at-fly and rest

Storage Targets

Features	Vembu BDR Suite	Altaro	Notes
Local	☑	☑	Setup local disks as storage target
SAN	☑	☑	Setup Storage Area Network as storage target
NAS	☑	☑	Setup Network-attached storage as storage target
DAS	☑	☑	Setup directly attached storage as storage target
Tape Devices	🔧	X	Setup tape storage devices as secondary storage target for backup data archival

☑ Fully Supported ◉ Partially Supported X Not Supported 🔧 Under Development

© Vembu Technologies

Features	Vembu BDR Suite	Altaro	Notes
HW or SW Appliance integration	☑	X	Setup hardware or software appliances such as data domains as storage targets
Cloud Storage	☑	☑	Store backup data in Vembu Cloud
Off-Site repository	☑	☑	Store backup data in off-site location
Efficient Storage Repository Management	☑	X	Vembu uses its own VembuHIVE file systems on top of the storage targets to enhance the performance and scalability of the storage targets. It has built-in version control, deduplication (elimination of redundant information to enhance storage reduction), encryption and built-in error correction.
Storage Grouping	☑	☑	You can use any kind of storage devices such as Local, SAN, NAS and DAS for storage purpose and Vembu supports all such filesystems for storage purpose
Scale-out storage repositories	☑	☑	You can easily scale-out the storage devices based on storage utilization

Automatic Error Correction

Features	Vembu BDR Suite	Altaro	Notes
Boot test	☑	☑	Backed up VMs and physical machines will be automatically booted and screenshot of VM will be captured
Mount test	☑	☑	Mountability of the backed up VM and physical machine's drive will be executed to confirm the recoverability
Integrity test	☑	☑	In-built integrity check will be executed using CHKDSK utility to check the integrity of the data inside the backed up VM and physical machines
CRC (cyclic redundancy check) check during backup	☑	X	CRC check will be executed during backup
On-demand CRC (cyclic redundancy check) check	🔧	X	Option to run CRC check after backup job
Parity Check (Software based)	🔧	X	In-built parity check helps to rebuild the lost/corrupted blocks on storage targets

☑ Fully Supported ◉ Partially Supported X Not Supported 🔧 Under Development

© Vembu Technologies

Deployment

Deployment Method

Features	Vembu BDR Suite	Altaro	Notes
Physical Server	☑	X	BDR backup server and other agents can be installed on physical machines
Virtual Machine	☑	☑	BDR backup server and other agents can be installed on virtual machines
Virtual Appliance	☑	X	Vembu offers virtual appliances for VMware and Hyper-V environments
Light Weight Installation	☑	☑	Ultra fast installation which gets completed in minutes.
On-premise deployment	☑	☑	Simple deployment where backup data is stored in your data center.
Hybrid deployment (CloudDR)	☑	☑	You can keep multiple backup copies. One copy at your site and another copy to Vembu Cloud.
Hybrid deployment (OffsiteDR)	☑	☑	You can keep multiple backup copies. One copy at your site and another copy to your co-location (ROBO).
Remote / Off-site Deployment	☑	☑	Backup directly to remote location over WAN.
Direct Cloud Backup	☑	X	Backup directly to Vembu Cloud over WAN and eliminate backup server maintenance cost.

Supported OS for Backup Server

Features	Vembu BDR Suite	Altaro	Notes
Windows 2016	☑	☑	Backup server can be installed on Windows 2016 OS. It can be installed on both physical or virtual machine.
Windows 2012 R2	☑	☑	Backup server can be installed on Windows 2012 R2 OS. It can be installed on both physical or virtual machine.

☑ Fully Supported ◉ Partially Supported X Not Supported Under Development

© Vembu Technologies

Features	Vembu BDR Suite	Altaro	Notes
Windows 2012	☑	☑	Backup server can be installed on Windows 2012 OS. It can be installed on both physical or virtual machine.
Windows 2008 R2	☑	☑	Backup server can be installed on Windows 2008 R2 OS. It can be installed on both physical or virtual machine.
Windows 10*	☑	☑	Backup server can be installed on Windows 10 for evaluation purpose.
Ubuntu 14.04 LTS	☑	X	Backup server can be installed on Ubuntu 14.04 OS. It can be installed on both physical or virtual machine
Ubuntu 12.04 LTS	☑	X	Backup server can be installed on Ubuntu 12.04 OS. It can be installed on both physical or virtual machine.
Virtual Appliance for VMware vSphere	☑	X	Vembu provides virtual appliance by installing Vembu BDR Backup Server along with all necessary supporting applications in Ubuntu 14.04 LTS OS. You can directly import the virtual appliance into any ESXi host.
Virtual Appliance for Microsoft Hyper-V	☑	X	Vembu provides virtual appliance by installing Vembu BDR Backup Server along with all necessary supporting applications in Ubuntu 14.04 LTS OS. You can directly import the virtual appliance into any Hyper-V host.

☑ Fully Supported ◉ Partially Supported X Not Supported Under Development

© Vembu Technologies

Management

Features	Vembu BDR Suite	Altaro	Notes
Multi-Tenant	☑	☑	Hierarchy based management to create multi-tenant environment
Self-Service Portal	☑	X	Flexible administration web console can access from anywhere
WebServices API	☑	☑	APIs can be used for workflow automation
Reporting	☑	☑	Status report of all backup schedules will now be available in a single page and wide range of reports are available and the same can be emailed to users
Monitoring	☑	☑	One spot where you can monitor all of your backup and recovery activities
Centralized Management	☑	☑	Centralized UI for admins to manage backups and restores
Centralized License Management	☑	X	Manage all licenses from a centralized portal
Email notification	☑	☑	Enable email notifications for all backup activities.
Alarms and Events	☑	☑	All activities such as backup, restore and etc. will be captured and group of events will be listed as Alarms.

☑ Fully Supported ◉ Partially Supported X Not Supported 🔧 Under Development

© Vembu Technologies

Pricing

Vembu BDR Suite

Features	Vembu BDR Suite	Altaro	Notes
VMware Backup & Replication	$360	$875 Per Host	Per CPU-Socket/Year
Hyper-V Backup & Replication	$240	$875 Per Host	Per CPU-Socket/Year
Physical Windows Server Image Backup	$180	-	Per Server/Year
Physical Windows Desktops & Laptops (Workstation) Image Backup	FREE	-	Per Workstation/Year
File Backup - Linux Servers	$60	-	Per Server/Year
File Backup - Mac	FREE	-	Per Workstation/Year
Office 365	$24	-	Per User/Year
Google Apps (now G Suite)	$24	-	Per User/Year

Fully Supported Partially Supported Not Supported Under Development

© Vembu Technologies

USA & CANADA
+1-512-256-8699

UNITED KINGDOM
+1-512-256-8699

Email
vembu-sales@vembu.com
vembu-support@vembu.com

www.vembu.com

Disclaimer

All rights reserved. No part of this publication may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording, or other electronic or mechanical methods, without the prior written permission of the publisher. The information contained in this document is taken from third party sources and is for general information purposes only. The information is provided by Vembu and while we endeavour to keep the information up to date and correct, we make no representations or warranties of any kind, express or implied, about the completeness, accuracy, reliability, suitability or availability with respect to the document or the information contained on the document for any purpose. Any reliance you place on such information is therefore strictly at your own risk.