

VMware Backup and Replication using Vembu VMBackup

Vembu provides faster, more efficient VMBackup for VMware environment where the IT administrators can take agentless VM Backup hosted in VMware ESXi host and vCenter server. VADP and VDDK based VMware backup completely reduces storage requirements and transfer bandwidth. With Vembu replication, the user can keep a redundant copy of their data to offsite or cloud locations. Also, Vembu offers different types of recovery options and replication solution which ensures the high availability of VMware VMs. With RPO and RTO less than 15 minutes, IT Managers can now initiate complete virtual machine recovery during any disaster with minimal downtime.

“Vembu ensures availability of our core production systems that support Mackie’s business operations. 24x7 availability of business applications and its data is critical for us, and Vembu delivers on these requirements. Vembu has become an integral component of our IT and business continuity strategy.”

Lee Wong, Manager of Information Technology at The Mackie Group

Protected Environments

Hosts

- vSphere ESXi 6.0
- vSphere ESXi 5.5
- vSphere ESXi 5.1
- vSphere ESXi 5.0
- vSphere ESXi 4.1
- vSphere ESXi 4.0

Platforms

- vCenter Server 6.0
- vCenter Server 5.5
- vCenter Server 5.1
- vCenter Server 5.0

Features of VMware Backup

Backup

Agentless VMware Backup: Backup all or selected VMs running on VMware ESXi host and vCenter server environments without installing any agent on each VM

Full VM Backup: Protect entire VM including operating system, application and data of virtual machine running on a VMware ESXi host and vCenter server environment in a single pass to ensure the business continuity

CBT enabled incremental backups: Vembu VMBackup using VMware’s VADP (vSphere APIs for Data Protection) and proprietary CBT driver, changed blocks alone will be backed up after initial full backup

Additional Full Backup: User can automatically configure an additional full backup at a regular time interval

Near Continuous Data Production: Option to run virtual machine backup job every 15 minutes to get RPO (Recovery Point Objective) less than 15 minutes

Retention Policies: Basic and Advanced (GFS) retentions policies helps to maintain multiple recovery points for data restore and effectively manage backup data storage size

Transport modes: Vembu supports different transport modes such as SAN, Hot-Add and Network mode (NBD & NBDSSL) for LAN-free data transfer. It provides faster and secure backup data transfer for VMware backups

Application-aware Image Backup: During each backup schedule, VMBackup verifies the Microsoft Applications writer consistency

Log Truncation: Vembu VMBackup reduces the overflow of storage space by automatically truncating the transaction logs after performing a successful VM backup

Automated Backup Verification: Verifies the recoverability of the backed up data by booting the VM and the screenshots of the booted screen will be captured and emailed to the administrator

Physical IT Environment monitoring and management available 24/7/365

Vembu BDR360 – Centralized monitoring and management portal delivers extensive reports on backup activities and resource utilization across all BDR backup servers with features like

- ✓ Email Alerts
- ✓ Instant Notifications
- ✓ Group Management
- ✓ Image Verification Reports

Vembu Portal – Centralized license management portal to manage license utilization.

- ✓ Billing
- ✓ Invoice
- ✓ Licensing
- ✓ Account Management

Recovery

Full VM Recovery to ESXi host: The backed up VM data will be directly restored to the same or different ESXi host or vCenter server

Quick VM Recovery: Vembu ensures RTO less than 15 minutes by delivering quick VM recovery options for Vembu VMBackup. Backed up VM data can be recovered instantly in VMware, Hyper-V and KVM environments without restoring the entire VM

File Level Recovery: Individual files and folders of the backed up VM can be instantly restored from VM backup without restoring the whole VM

Partition Level Recovery: Recover selected volumes or disks alone to the same or different machine

Download Option: The user can easily download the backed up data to various file formats as per the requirement like VHD, VHDX, VMDK, VMDK-FLAT and IMG. So, later it can be used for V2V and V2P migrations

Vembu Universal Explorer: Vembu developed an exclusive tool to recover the individual Microsoft application items from the backed up data. Be it physical or virtual machine data, *Vembu Universal Explorer* recovers application items from Microsoft Exchange, SharePoint, SQL and Active Directory

Replication

Agentless VM Replication: VMware VM data can be replicated from source to target ESXi host environment to ensure the business continuity without the need of installing proxies in Host or VM

Failover & Failback: VMBackup provides the option where replicated VMs can be failover and failback to reduce the business downtime

Network and IP remapping: Automap production host network and IP address with the DR host network to avoid manual work during replica failover

OffsiteDR & CloudDR for Data Redundancy and Disaster Recovery: Replicate redundant copy of virtual machine backup data to your self-maintained offsite data center or to Vembu Cloud

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