

## VMware Backup and Replication using Vembu VMBackup

Vembu VMBackup provides faster, efficient and agentless Backup for VMs hosted in VMware ESXi host and vCenter server environments. VADP and VDDK based VMware backup completely reduces storage needs and bandwidth requirements of backup data. With Vembu VMreplication, users can now replicate their VM from one ESXi to another ESXi without use of external agent. With RPO and RTO less than 15 minutes, IT Managers can initiate a complete virtual machine recovery during any disaster with minimal downtime that ensures high

“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 6.5
- 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 6.5
- vCenter Server 6.0
- vCenter Server 5.5
- vCenter Server 5.0
- vCenter Server 5.1
- vCenter Server 4.1
- vCenter Server 4.0

## 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 inside each VM

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

**Near Continuous Data Production:** Vembu is providing the option to run the incremental backup for VMware VMs every 15 minutes to get RPO (Recovery Point Objective) less than 15 minutes

**CBT enabled incremental backups:** Vembu VMBackup uses VMware’s CBT to track the changes made on the VM and only the changes will be backed upon successive incrementals

**Additional Full Backup:** Apart from the initial full backup, user can automatically configure an additional full backup at regular time intervals

**Retention Policies:** Basic and Advanced retentions policies help to maintain multiple recovery points for the backed up VMs to effectively manage the storage needs

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

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

**Backup level Encryption:** Customize and secure every backup job by enabling this advanced AES 256-bit encryption setting through unique password hints

**Native Tape Support:** Archive VM level backups to tape and restore them in multiple file formats like VHD, VMDK, VHDX, VMDK-Flat and RAW for an efficient 3-2-1 DR plan

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

**OffsiteDR & CloudDR for Disaster Recovery:** Replicate a copy of the backup data to your self-maintained offsite data center or to Vembu Cloud for disaster recovery purpose

### 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

**Quick VM Recovery:** Instantly recover the backed up VMware VM's by booting it instantly on any of the hypervisors like VMware, Hyper-V or KVM which ensures the RPO lesser than 15 Minutes

**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

**File Level Recovery:** Individual files and folders of the backed up VM can be instantly recovered from VM backup without actually restoring the entire backup data

**Disk Management Mount:** Users can get access the virtual disk of the backed up VMs by mounting the backup data on the disk management of local machine through the Vembu virtual drive

**Disk Level Recovery:** Restore backed up VMs at disk level where backed up Virtual disks can be restored to target VMs in an ESX(i) host

**Cross Platform Migration:** The user can easily download the backed up data in various file formats as per the requirement like VHD, VHDX, VMDK, VMDK-FLAT and IMG. which can be later used for V2V and V2P migrations

**Vembu Universal Explorer:** Be it physical or virtual machine data, Vembu Universal Explorer recovers application of Microsoft Exchange, SharePoint, SQL and Active Directory directly from the backup data.

## Replication

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

**Failover & Failback:** VMBackup provides the option to instantly failover and failback the replicated VMs to reduce the business downtime

**Network and IP remapping:** Automatically maps production host network and IP address with the DR host network to avoid manual works during the failover of replicated VMs

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