

VEEAM FOR BACKUP,
Replication and Availability
with Always-On feature

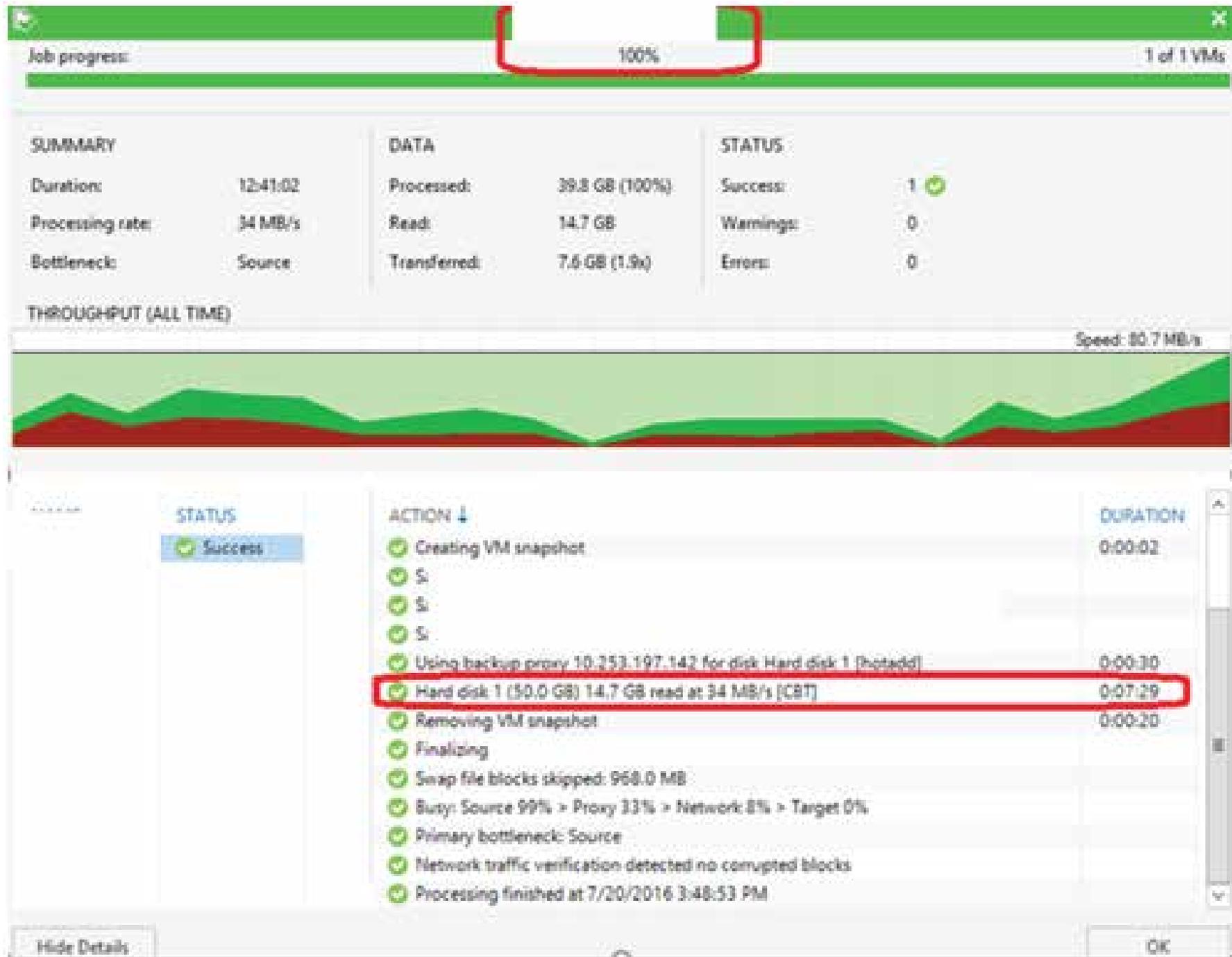
Overview

The Veeam Team at Taashee Linux Services deals with contrasting multiple environments such as VMware and Hyper-V. The flagship features of Veeam such as Data Backup, Disaster Recovery and Virtualization Management are implemented at the client's place by our Taashee team of cloud engineers.



Client Introduction

Our client is one of the leading pharmaceutical companies of India having a huge multinational presence. Starting with proprietary formulations at a competitive price, it has undergone a major transformation by being one of the leading drug manufacturers and suppliers.



Data Recovery and Backup Strategy for VMs

Challenge:

The client was not happy with the reliability factor with respect to the existing backup strategy for their infrastructure maintained using VMware ESXi vSphere Hypervisor. The loss of sensitive data at crucial junctures was a major cause of worry. Additionally, the failure to implement recovery activities successfully on a regular basis too was bothering a lot.

Solution:

Taashee Veeam engineers took care of the reliability issue with Veeam's exclusive feature for Backup, Restoration, and Replication. Also, the instant VM recovery option has been validated in time in order to facilitate successful implementation of recovery activities.

It took eight minutes to complete a full VM restoration of 60 GB. Also, our team successfully configured full backup of 50 GB VM by relying upon Veeam Backup Copy Job feature as depicted below.

VM Backup Schedule

Challenge:

The client was looking for a faster means of Data Backup as the number of hours spent to perform backups under normal mode were more. As a result, the overall productivity was getting affected.

Solution:

Veeam engineers at Taashee swung into action to provide the best possible solution to the client. A SureBackup environment has been established with backup compliance feature aimed exclusively for VMware-critical VMs.

Taashee was able to offer backup flexibility to the client ranging from 10 minutes to 2 hours and so on. The entire Veeam Backup Scheduling process along with Testing and Configuration is as reflected below.

Backup job: New Backup Test Success
Disk Exclusion Test **ADDED 2 NEW VOLUME DEMO THE PROECESS OF DISK EXCLUSION** 1 of 1 V

Friday, July 15, 2016 12:28:51 AM

Success	1	Start time	12:28:51 AM	Total size	100.0 GB	Backup size	1.4 GB
Warning	0	End time	12:36:57 AM	Data read	3.5 GB	Dedupe	1.4x
Error	0	Duration	0:08:05	Transferred	1.3 GB	Compression	2.3x

Details

Name	Status	Start time	End time	Size	Read	Transferred	Duration
	Success	12:29:32 AM	12:36:48 AM	100.0 GB	3.5 GB	1.3 GB	0:07:15

Backup job: New Backup Test (Full) S
Disk Exclusion Test 1

Thursday, July 14, 2016 5:18:50 AM

Success	1	Start time	5:18:50 AM	Total size	100.0 GB	Backup size	27.8 GB
Warning	0	End time	5:46:04 AM	Data read	42.6 GB	Dedupe	2.3x
Error	0	Duration	0:27:13	Transferred	27.7 GB	Compression	1.5x

Details

Name	Status	Start time	End time	Size	Read	Transferred	Duration
	Success	5:19:31 AM	5:45:57 AM	100.0 GB	42.6 GB	27.7 GB	0:26:25

Veeam Backup & Replication 9.0.0.907



 A Virtual Lab requires a host on which to run virtual machines (VMs), and a datastore to store disks produced while running a VM from a backup file. An isolated virtual lab network is automatically based on the production network selected to be mirrored in the lab. VMs in the isolated virtual lab network are accessible from the production network through a help appliance that is automatically configured and deployed to the selected host as part of Virtual Lab.

 **Add Application Group**
An Application Group defines virtual machine (VM) dependencies by specifying the required boot VMs supporting a given application or service. An Application Group typically includes a domain controller, DNS server, and a DHCP server (unless static IP addresses are used). All VMs in the Application Group selected for a given SureBackup job are started in the specified order and remain running until the SureBackup job finishes.

 **Add SureBackup Job**
To set up a SureBackup job, select the Application Group containing the core infrastructure services that the virtual machines (VMs) to be run in the Virtual Lab are dependent on, and specify which backup jobs you want to use. While the SureBackup job runs in recovery verification mode, all VMs from the selected backup jobs are started and verified one by one. When the SureBackup job is initiated by a U-AIR request, only the VM from the specified backup job(s) is started (in addition to the VMs in the specified Application Group).

 **Run SureBackup Job**
To start a SureBackup job against the latest backup, go to the Jobs node in the Backup & Replication console.

Business Continuity and Infrastructure Availability

Challenge:

The client was looking for a stable platform that ensures dynamic resource allocation. Also, there was no reliable means to guarantee automated disaster recovery. Eventually, there was an immediate necessity to increase the availability of virtual infrastructure.

Solution:

Taashee engineers specialized in Veeam technology have implemented Veeam Availability Suite in order to ensure maximum availability of virtual infrastructure. By having a dedicated focus upon additional features such as Resource Optimization and Capacity Planning (using Veeam ONE 9.5), the Taashee team of engineers were able to overcome the client issues successfully.

Our team made effective use of SureBackup Recovery Automatic Verification feature in order to realize successful backup pointer restore. The biggest advantage of client was that the production infrastructure remained unaffected.

Additional Challenges:

Increase availability and visibility of virtual infrastructure.

Ensure data protection for business critical virtual machines (VMs).

Eliminate the need to manage agents at the guest level (Legacy Old Method).

Reduction of time spent managing backups at the VM, OS, Application, and Data.

Ability to allocate technical resource to upcoming projects.

Reduced recovery time objectives

Our Unique Features :

Taashee Linux Services maintains a strong team of developers and engineers who are capable of resolving client issues by providing the best resolutions reflecting the latest industry technologies.

At Taashee Linux Services, we understand the requirements of our clients and always strive to meet their expectations in the best of our capacities. Given below are some of the features that differentiates us from our competitors.

Global implementation practices laced with robust technologies and industry accepted standards.

Innovative client trusted methodologies reflecting the need of the hour with clear focus upon future requirements.

Strategic partnerships with industry leading open source technology service providers.

Instant resolutions provided to the client issues aimed at enhancing productivity and improving efficiency.

Learn More

Taashee Linux Services plays a proactive role in assisting clients with the analysis of their current requirements.

Our dedicated Sales Team is capable of supporting you in undergoing the Digital Transformation that is quintessential for your growth.

Taashee Linux Services is a customer-centric Open Source Software (OSS) company offering a one-stop solution for the diverse requirements of clients. Our dedicated team of certified engineers and passionate developers handle various projects related to implementation or development of open source technologies.

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