# EXAGRID®

Intelligent Hyperconverged Storage for Backup



## ExaGrid enables OGD to deliver innovation



"It enables us to achieve our Gold-level SLA without any complexities"

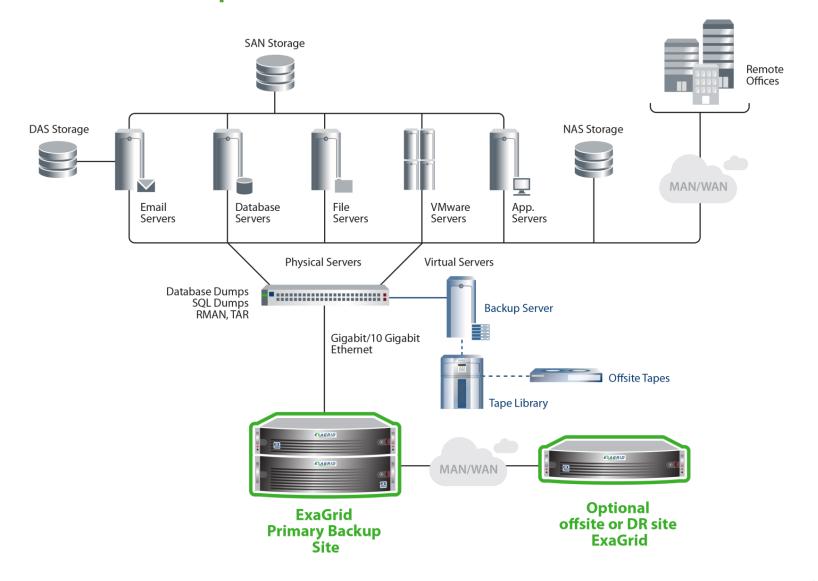
"The fact that Veeam's data mover is integrated with the ExaGrid appliance is a massive benefit.

" Veeam and ExaGrid working together in this way really inspires confidence."

Joep Piscaer **CTO Operator Groep Delft** 

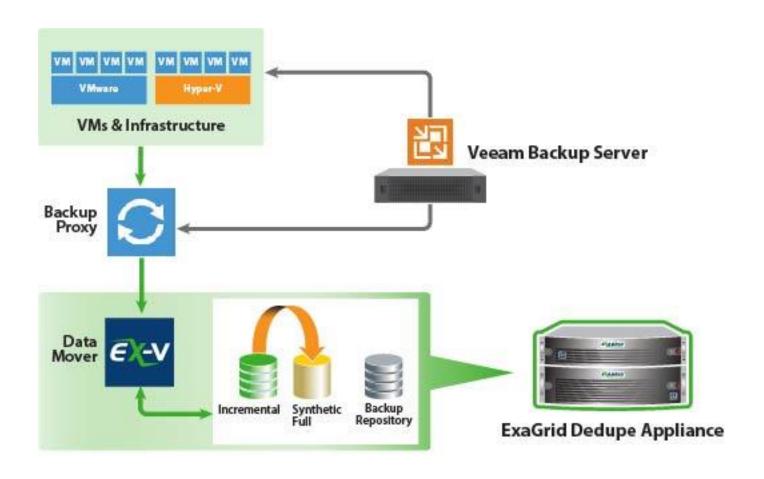


# ExaGrid – Simple and Flexible





## Integrated Veeam Data Mover – Faster Synthetic Fulls





## About ExaGrid

#### **ExaGrid**

- Largest independent vendor in the space
- Gartner Magic Quadrant "Visionary"
- Net Promoter Score of +73

## 100% focused on disk-based backup

- Highly differentiated architecture
- Winner of the most industry awards

## Large customer base

- 10,000+ systems installed worldwide
- 360+ published customer success stories



















## Achievements of Distinction

#### **Gartner Magic Quadrant**

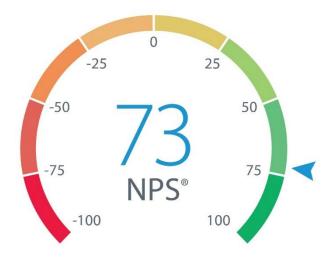
ExaGrid named sole "Visionary" in Magic Quadrant for Deduplication Backup Target Appliances

Figure 1. Magic Quadrant for Deduplication Backup Target Appliances



#### **Net Promoter Score +73**

exaGrid earned Net Promoter Score of +73
on scale of -100 to +100;
Categorized by NPS as "Excellent"

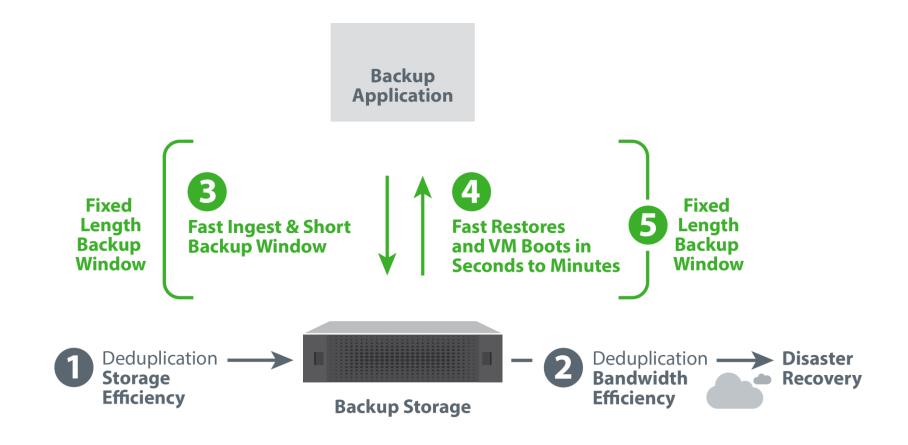


Customers give ExaGrid
NPS score of +73



## 5 Considerations for

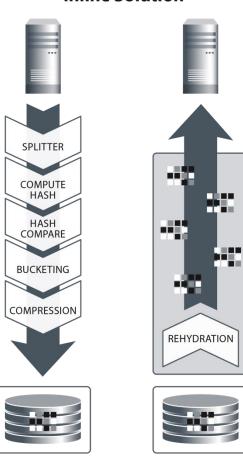
Intelligent Hyperconverged Storage for Backup with Deduplication





## Inline Scale-up Appliances Fall Short

#### **Inline Solution**



#### Inline deduplication on the way to disk

- Slower ingest
- Longer backup window

#### All data is stored in deduplicated form

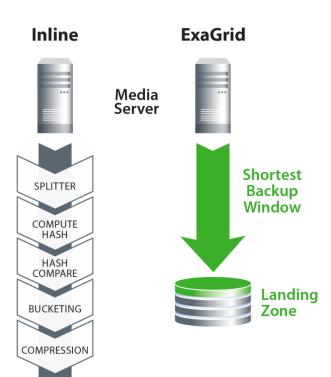
Slow restores, VM boots, and tape copies

#### As data grows, only disk is added

- Backup window grows as data grows
- Ultimately forces a costly forklift upgrade



# Fastest Backups and Shortest Backup Window



## Unique / integrated landing zone

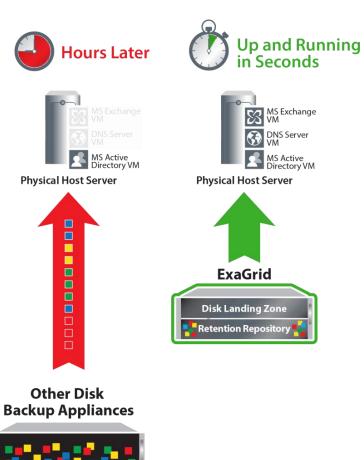
- Write backups directly to disk
- Avoid compute-intensive deduplication
- Adaptive deduplication

#### Benefits

- No inline processes to slow backups
- Fastest backups
- Shortest possible backup window
- Strong offsite RPO



## Fast Restores, VM Boots in Seconds to Minutes



## Unique / integrated landing zone

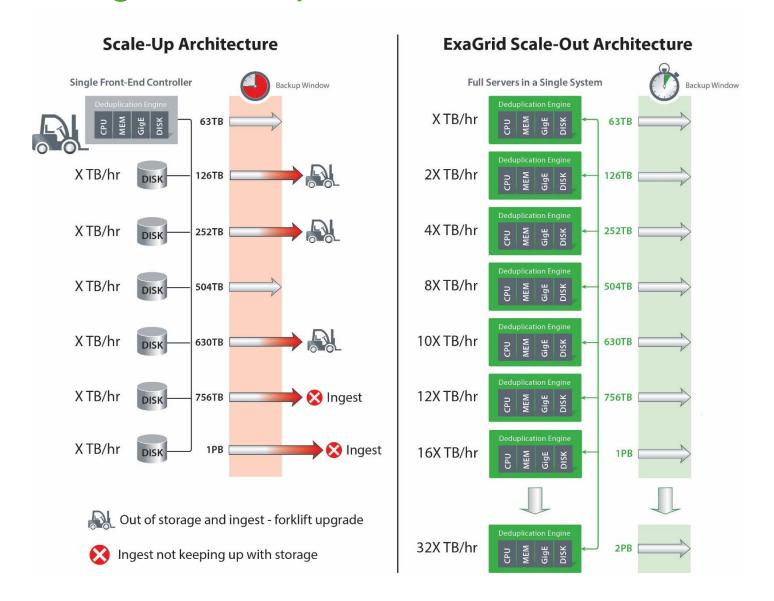
- Most recent backups are in undeduplicated form
- Eliminates data rehydration

#### Benefits

- Restores as fast as disk
- Tape copies as fast as disk
- VM boots in seconds to minutes

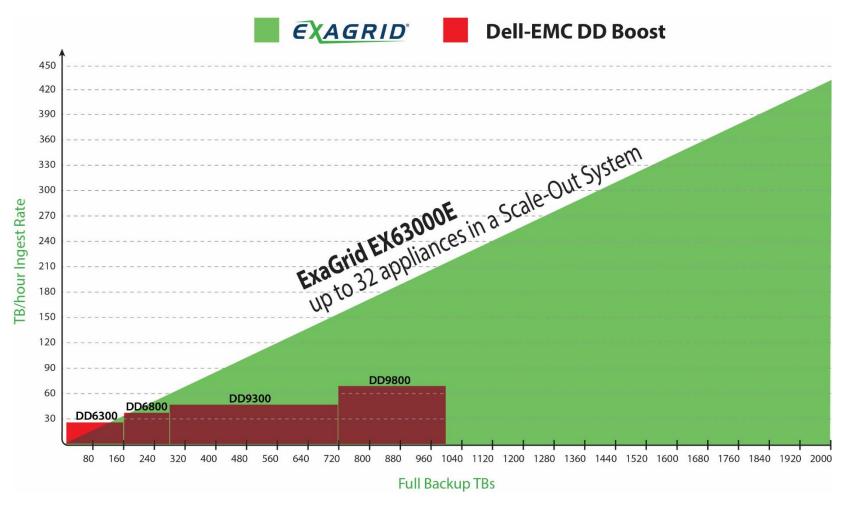


## Fixed Length Backup Window





# Ingest Performance of Scale-Out vs. Scale-Up



Capacity is based on a full backup with 12 copies of retention (combination of weekly, monthly, and yearly)



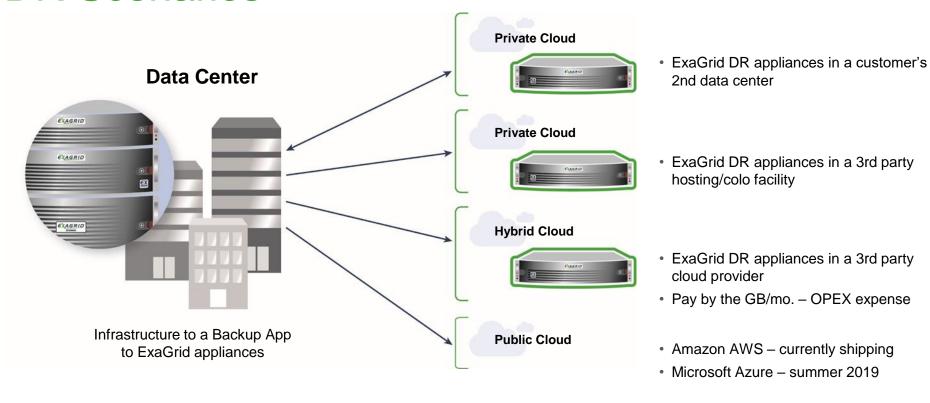
# ExaGrid Appliances in a Scale-out System

32 Appliances in a Single System – 2PB Full Backup

ExaGrid Model	Usable Capacity (TB)	Capacity for Weekly Full (TB)	Max Backup Thruput (TB/hr)
EX3000	6	3	0.72
EX5000	10	5	1.08
EX7000	14	7	2.40
EX10000E	20	10	2.40
EX13000E	28	13	2.40
EX21000E	42	21	4.32
EX32000E	66	32	7.56
EX40000E	78	40	8.00
EX63000E	126	63	13.50



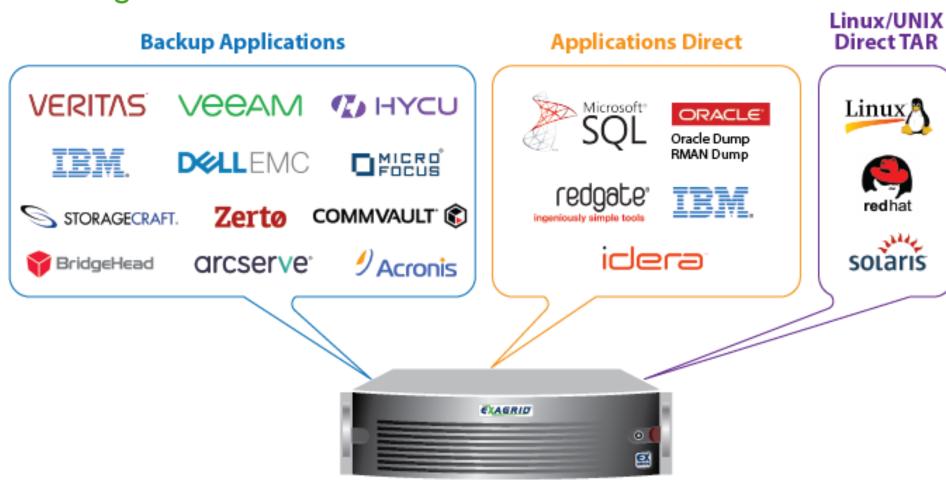
## **DR** Scenarios



- Adaptive deduplication deduplicates and replicates in parallel
- 50:1 WAN bandwidth efficiency
- Bandwidth throttle and WAN encryption for data replication
- Configure the disaster recovery site to all repository to save cost



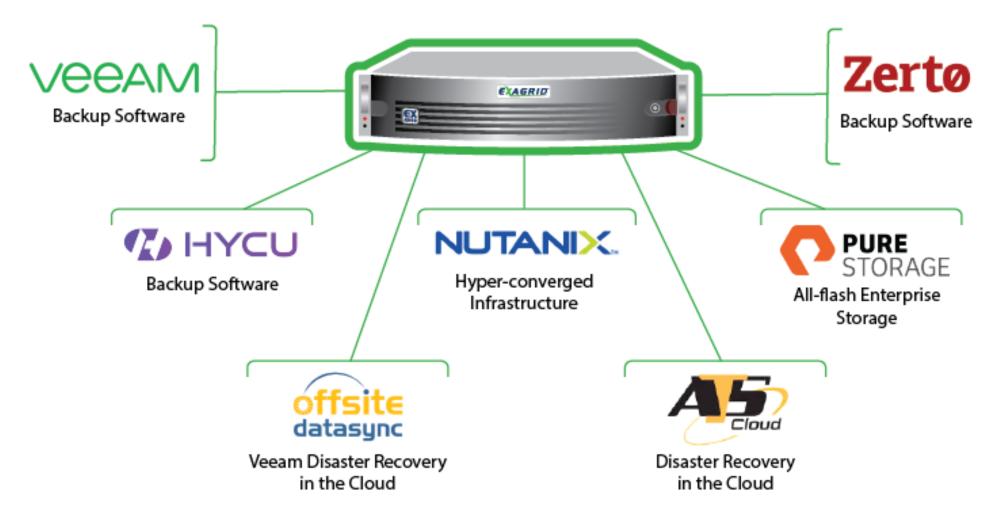
# Works with Industry Leading Backup Applications Heterogeneous Environments



**EXAGRID** 



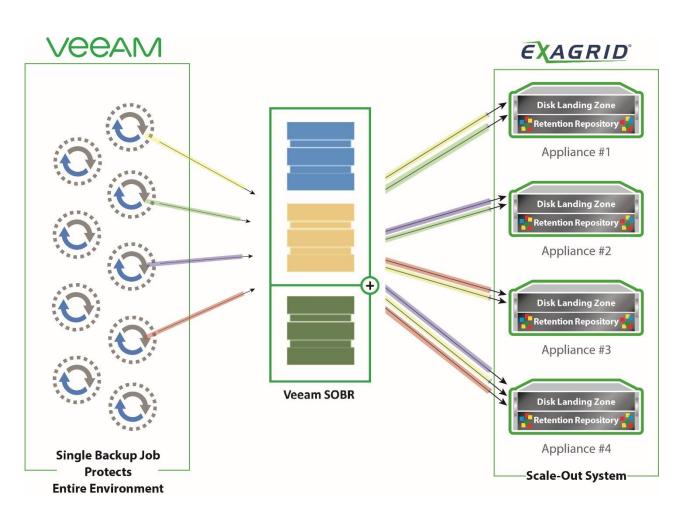
## ExaGrid – Ecosystem Partners





## End-to-End Scale-Out Backup with ExaGrid and Veeam

Support of Veeam Unlimited Scale-Out Backup Repository (SOBR)



- Automated job management
- Future-proof scalability with data growth simply add another appliance
- Capacity load balancing
- Superior performance **SOBR** optimizes backup streams
- 2PB full backup in a single system
- Failure tolerance automated job redirect



# Redundancy and Security

#### Redundant Hardware

- RAID6 with a hot spare drive guards against simultaneous disk drive failures
- Redundant power supplies
- NIC teaming

## Security

- Optional data encryption at rest
  - FIPS 140-2 compliant / 256-bit AES
  - Occurs at the drive level in nanoseconds
  - Does not impact backup performance
- WAN encryption for secure data transfer



# Personal Touch - Maintenance and Support

#### Phone and Email Support

- Assigned level 2 customer support engineer
- Support staff are subject matter experts in backup applications

#### Customer Installable and Serviceable

- Self-installable with phone support and WebEx
- Self-serviceable hardware replacements, next business day delivery

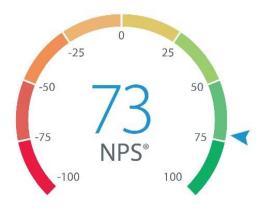
#### All Releases Provided

- Point and full releases includes all new features
- No license fees to track or renew

#### **Health Status Monitoring**

ExaGrid monitors and notifies

No additional charge – All included in support program



Customers give ExaGrid NPS score of +73











Thank You!