# Ootbi
# Best Storage for Veeam

# Meet Ootbi

Ransomware-proof and immutable out-of-the-box, Ootbi delivers simple, powerful, and affordable backup storage for Veeam customers. The appliance can be racked, stacked, and powered in 15-minutes. Ootbi is built on immutable object storage technology designed and optimized for unbeatable backup and recovery performance. Eliminate the need to sacrifice performance and simplicity to meet budget constraints with Ootbi.

# Optimized to work, so you don't have to

If you have seen our demos or read any of our material, you already know we pride ourselves on the simplicity of our solution. When was the last time you could rack and stack a piece of purpose-built backup storage hardware in 15 minutes and require no additional babysitting after initial configuration? What makes Ootbi simple, powerful, and affordable is how we have abstracted the technicality away from the user and optimized what we do with our software explicitly for Veeam, more specifically, so you don't have to. Still, we also understand it's essential to be transparent and share exactly how we made Ootbi so awesome, so let's pop open the hood and see what makes it tick.

# Out-of-the-box immutability

Immutability is essential in the world of backup and recovery. Since ransomware has shifted to searching out and encrypting backups to prevent any recovery, having immutable and accessible backup storage is critical to avoid paying the ransom. Ensuring backup data remains secure and in a ready-to-be-recovered state is the only means of true ransomware resiliency.

Ootbi leverages a hardened Linux operating system, completely customized and locked down, with no root or backend access allowed to the end user by design. Inside the user interface, admins can only create S3 keys and S3 buckets and cannot alter or delete anything until the immutability window set by the user has been passed. Out-of-the-box immutability with zero additional security configuration required.

In addition to the hardened OS, Ootbi's proprietary object storage software was engineered from the ground up, bringing powerful immutability powered by S3 Object Lock. Ootbi's take on object storage was built with security and simplicity in mind. Rather than use a traditional file or block-based storage layer, object storage in an appliance form factor unlocks the ability to modernize the primary backup storage target. Object storage grants a far better ability to protect backup data with its nuanced take on immutability managed through object locking. With a 3-2-1 strategy incorporating Ootbi as the primary storage target and cloud storage as the archive tier, Veeam backup data can now be immutable and ransomware-proof throughout the entire lifecycle.

With two clicks, Ootbi storage buckets can be created, are immutable by default, and integrate seamlessly with Veeam's v12 direct-to-object storage configuration powered by the Smart Object Storage API. Ootbi's object storage technology is built for maximum security and provides robust ransomware-proof backup storage.

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# Simplicity is the name of the game

Ootbi is a purpose-built backup storage appliance specifically optimized for Veeam. We removed all the unnecessary bells and whistles from the traditional storage appliance and focused solely on expedited and secure backup and recovery operations. We optimized the experience for the Veeam data management layer; gone are the days of configuring, tweaking, and optimizing your storage to integrate into your backup software. We focused on engineering an optimized software layer during development and removed many of the traditional storage configuration options from the user.

The initial configuration is simple. Once the node is racked and stacked, the user logs in to the device through a TUI, accessible via IPMI or keyboard and monitor. The initial cluster setup can be completed in under 15 minutes, requiring little more than an IP address and password. Scaling up is even easier with automated load balancing between nodes without additional configuration or namespace modification.
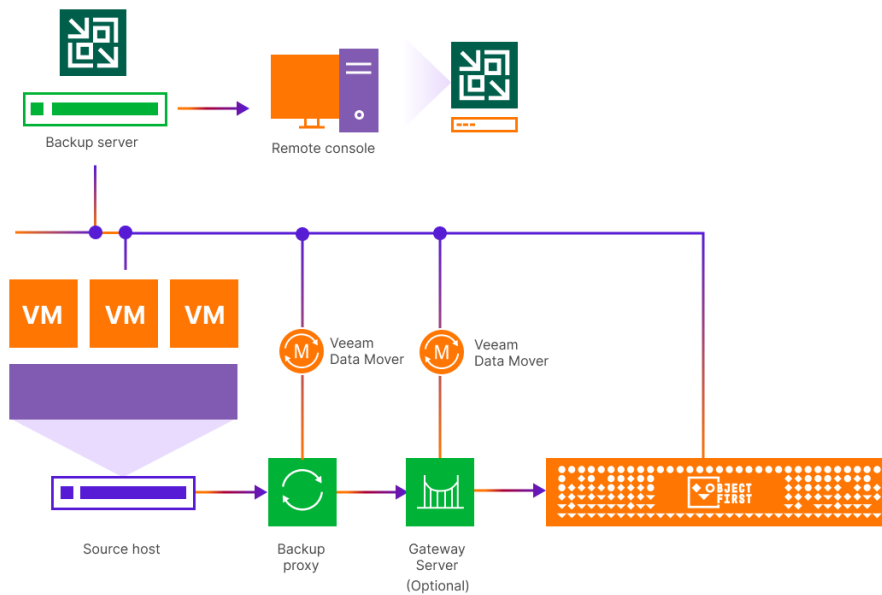


Ootbi management post configuration is just as simple. Users can perform two actions within the web UI: creating S3 keys and S3 buckets. Further administration includes notification settings, MFA enablement, and changing the password. Every operation is engineered to require as little input from the user as possible. Once an S3 key and bucket are created, the user should never have to configure or manage anything within Ootbi again (outside of running an occasional update!). With the ready-to-use system, you have a single UI that brings all the required functionality with an "only-what's-necessary" level of simplicity.
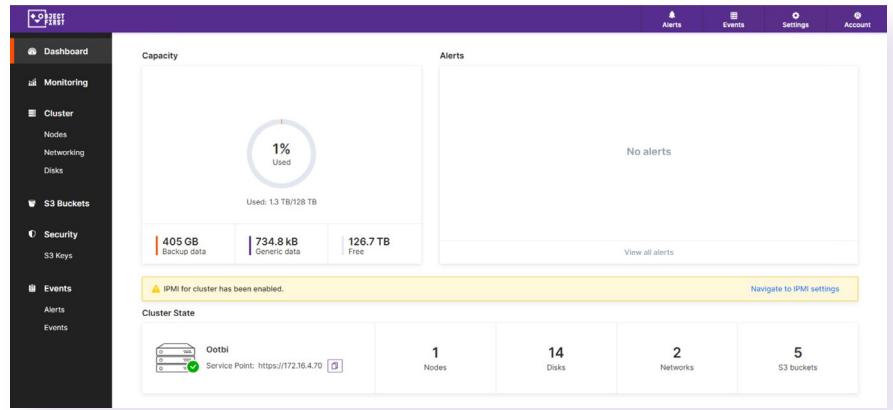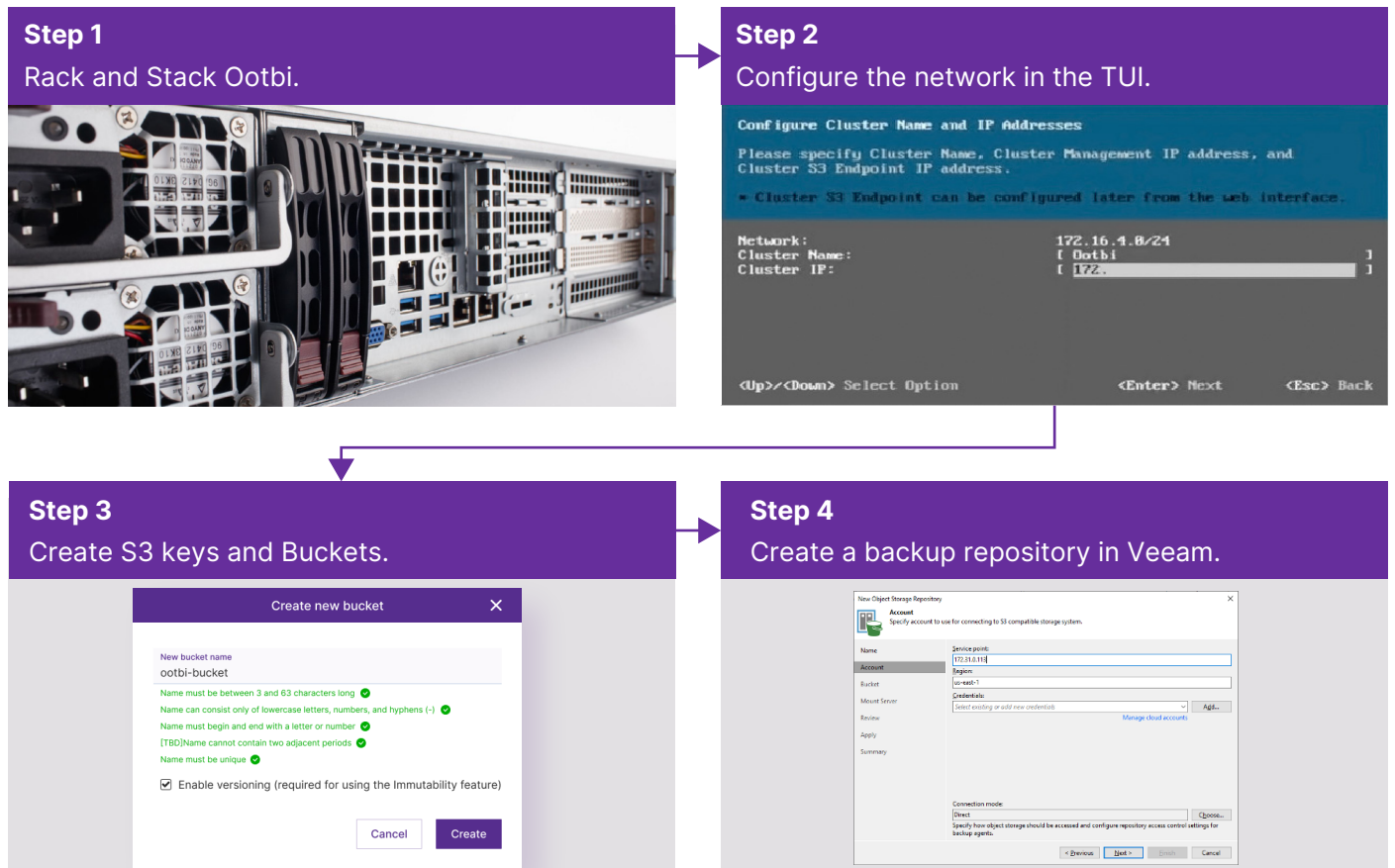
Web User Interface Makes Management Easy

# Self-Healing

Ootbi also takes care of itself should something go awry. With RAID6 self-healing, plus the included spare drive, the system will repair itself automatically if the RAID loses an operational disk drive. Without any user intervention, we automatically show alerts and notifications for all the critical events to keep the system administrator informed without demanding action from them.

# Box-2-Backup in 15 minutes

Ootbi is so quick and straightforward to install that the entire operation can be completed in under 15 minutes!

**Step 1**
Rack and Stack Ootbi.



**Step 2**
Configure the network in the TUI.



**Step 3**
Create S3 keys and Buckets.



**Step 4**
Create a backup repository in Veeam.

# Purpose-built power

Ootbi was engineered and optimized specifically to empower Veeam Backup and Replication v12.
This means every feature and functionality on the front and the back end was purpose-built for the Veeam admin. Once an S3 bucket and keys have been generated and added to Veeam Backup and Replication, the power of Ootbi can be unleashed.

During a Veeam backup operation, Ootbi maximizes throughput sent over Veeam's SOS API.
All data is encapsulated as objects and sent over the direct-to-object storage API over HTTPS.
Ootbi expedites data movement by taking advantage of the user-specified networking hardware.
Choose from either the onboard dual-10Gbps BaseT ports or, if you need alternate connection options, the dual-10Gbps SFP+ ports. Regardless of type, each connection allows for a dual stream of data from Veeam, meaning parallelized data transfer doubling the network throughput.
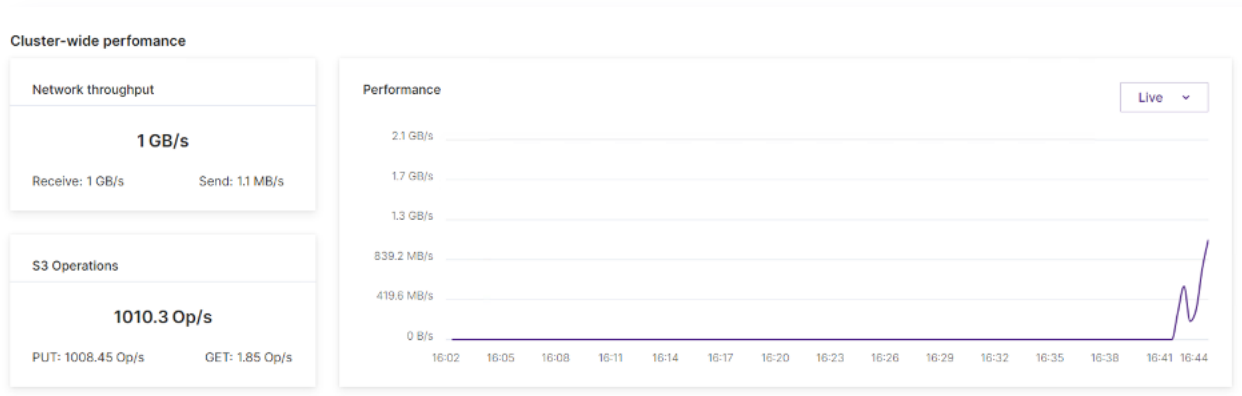
Optimized for maximum backup ingest speed.

Once Ootbi receives the data via the network, it buffers it to the 1.6TB NVME drive. The objects are then disseminated to the RAID 6 array freeing up space on the NVME without slowing down write operations from the NIC. This ballet of optimized data movement ensures that write speeds on a single node can easily reach 1GB/s and exceed that under perfect networking conditions. Capacity and performance also scale linearly, meaning that with four Ootbi nodes in a cluster, backup speeds can exceed 4.0GB/s with up to half a petabyte of storage space.
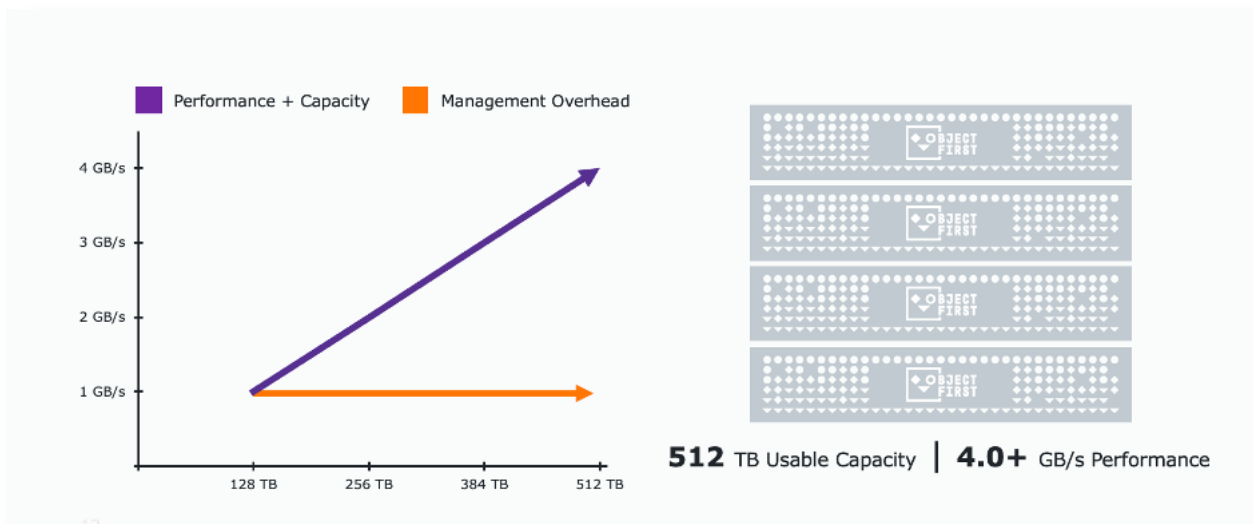


Scale with Simplicity

Ootbi's recovery abilities are just as impressive as its backup performance. Instant recovery on Ootbi supports up to 20 VMs running simultaneously on a single node. For direct data, recovery speeds range from 500-600MB/s as the data is being read and sent directly from the RAID 6 storage. These features also scale linearly, meaning Ootbi supports up to 80 VMs and 2.4GB/s recovery speeds on a complete four-node cluster.

# Priced to perform

Efficient design paired with standardized hardware and optimized software stack results in an unbeatable price/performance ratio. Three-year subscription model with 24/7 support included means no surprise fees long term. If a disk in Ootbi fails, we will ship out a new spare at no additional cost to the user. Everything is designed to be as hassle-free as possible, buying back your time and ensuring you remain ransomware-proof without the extra effort.

# Ready to learn more?

While we may have answered many of your technical questions, we understand that everyone's needs differ. Please don't hesitate to reach out and schedule a conversation with one of Vitanium's Ootbi Specialist to learn how Ootbi is the best storage for Veeam.

## Contact: