



# Stop ransomware with on-prem immutability



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Object First  
Solutions Content Manager



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# What we're covering

- The case for data immutability
- Cloud is great – need on-prem too
- Ootbi immutable appliance demo
- Veeam immutable configuration
- Wrap-up

Everything is encrypted

Your hypervisor is gone

Your on-site backup is gone

Your off-site backup is gone

# The case for immutability



# Cloud is great . . .

On-prem  
is the  
*fastest*  
way to  
restore

Internet is down

We need our data  
restored faster than  
we anticipated

Didn't have off-site  
immutability

Never tested our  
off-site restore

Internet too slow

Expensive Public  
cloud data  
egress fees



# Matt Price

Object First  
Solutions Content Manager

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Ootbi on-prem  
immutable appliance  
Overview and demo



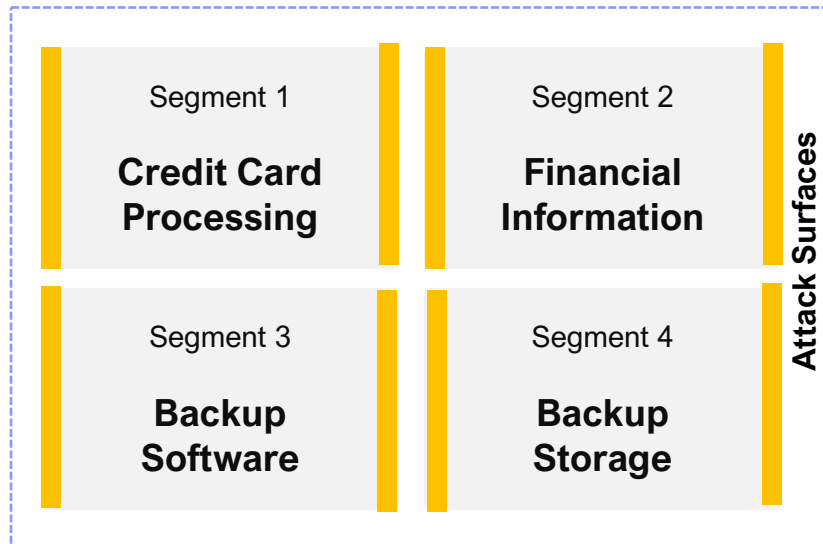
**OBJECT  
FIRST**



# Zero Trust Principles

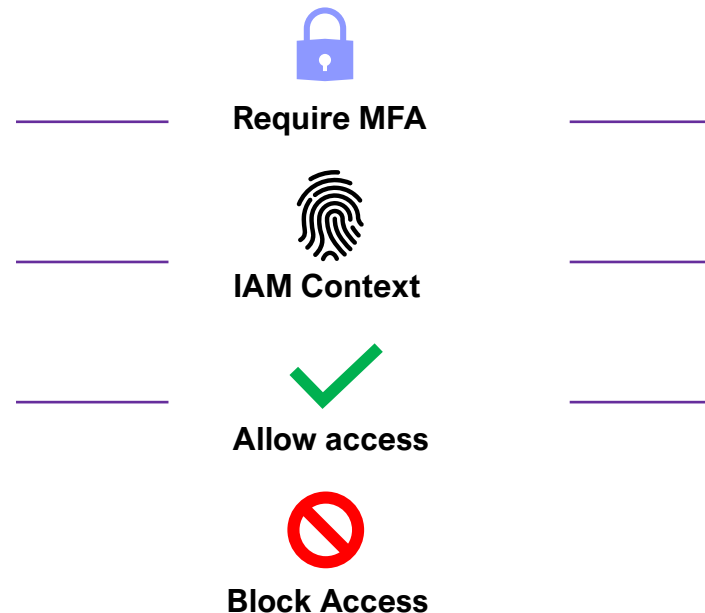
**Assume breach.  
Segment access**

**Minimize attack surface  
and blast radius**



**Verify explicitly**

**Verify every access attempt  
using IAM context and MFA**

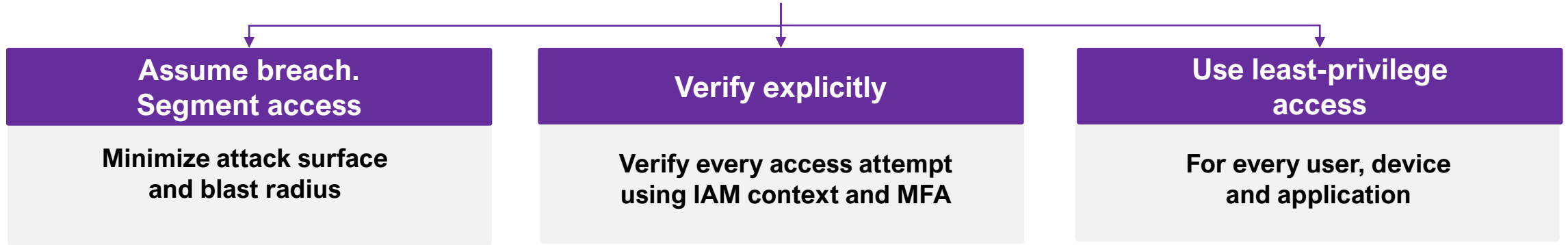


**Use least-privilege  
access**

**For every user, device  
and application**

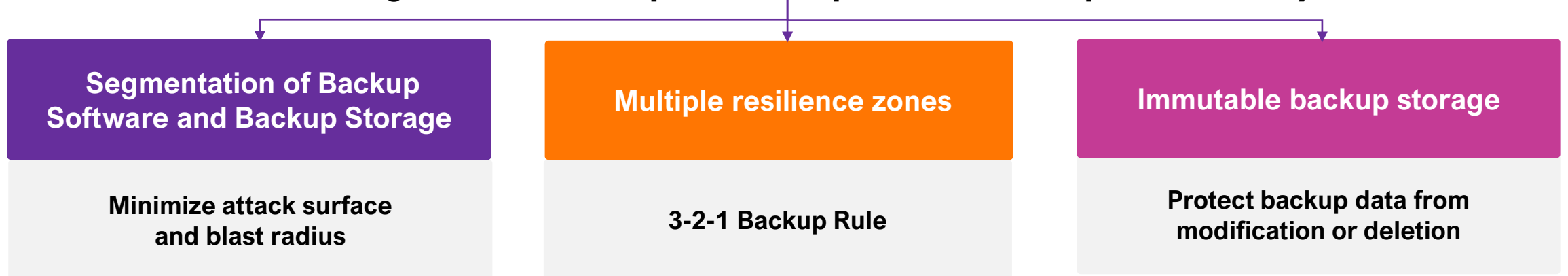


# Zero Trust Principles



# Zero Trust Data Resilience (ZTDR) Principles

Extending Zero Trust Principles to Enterprise Data Backup and Recovery



# Best Storage for Veeam

## OOTBI

Out-of-the-box immutability



**Secure**

Out-of-the-box immutability.  
Zero access to root.



**Simple**

15 minutes to deploy and scale. No  
security expertise.



**Powerful**

Lightning fast up to 4.0GB/s.  
Supercharged Instant Recovery.

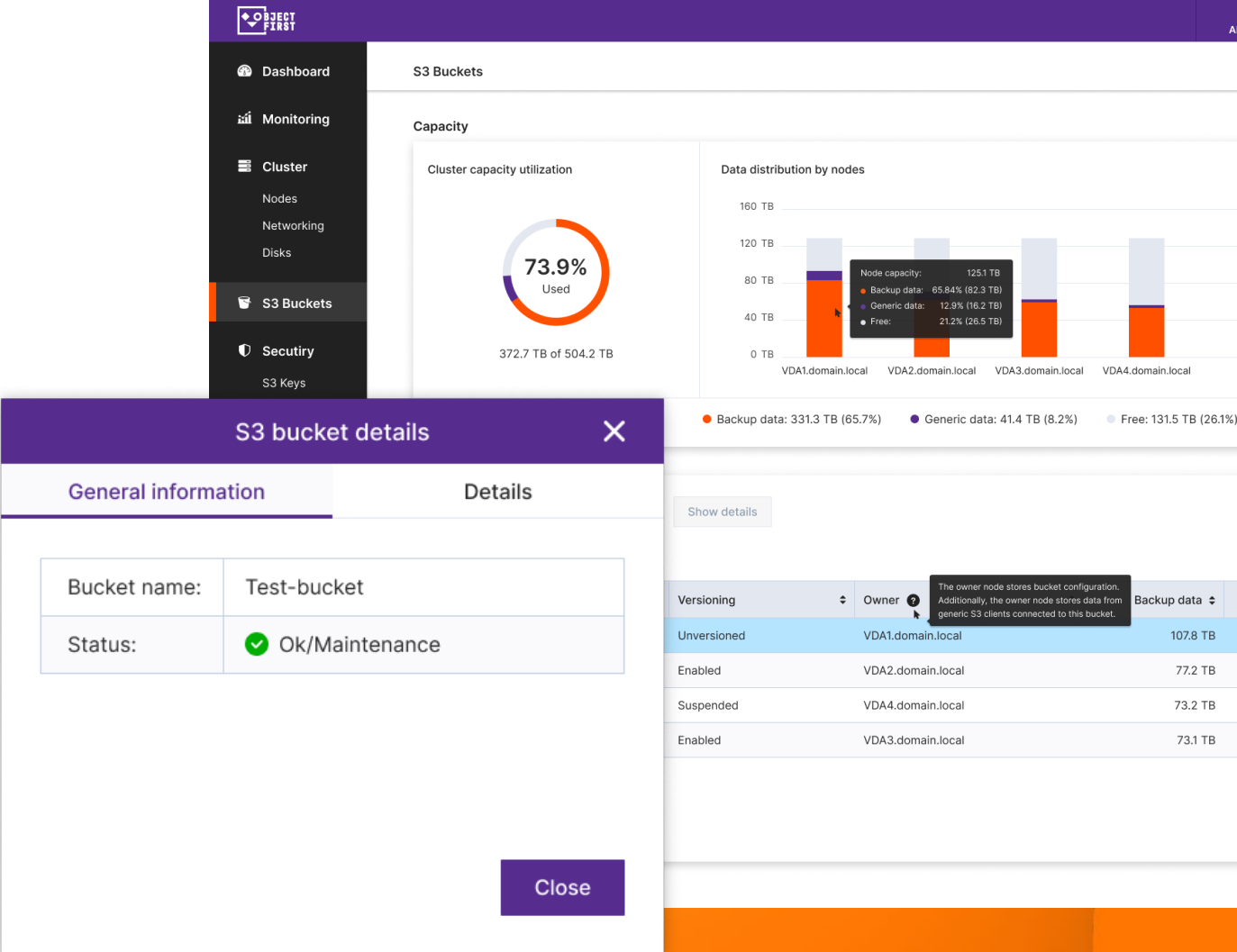


**Ransomware-proof**



# Ootbi is Secure

- S3 out-of-the-box immutability
- Hardened storage target with zero access to root or OS
- Natural Separation of Backup Software and Backup Storage due to appliance form factor
- Continuously third-party security tested and validated



**S3 Buckets**

**Capacity**

Cluster capacity utilization

73.9% Used

372.7 TB of 504.2 TB

**Data distribution by nodes**

Node	Backup data	Generic data	Free
VDA1.domain.local	82.3 TB (65.84%)	16.2 TB (12.9%)	26.5 TB (21.2%)
VDA2.domain.local	41.4 TB (8.2%)	-	-
VDA3.domain.local	73.1 TB (7.3%)	-	-
VDA4.domain.local	107.8 TB (10.7%)	-	-

Node capacity: 125.1 TB

Backup data: 65.84% (82.3 TB)

Generic data: 12.9% (16.2 TB)

Free: 21.2% (26.5 TB)

Backup data: 331.3 TB (65.7%)    Generic data: 41.4 TB (8.2%)    Free: 131.5 TB (26.1%)

**S3 bucket details**

General information    Details

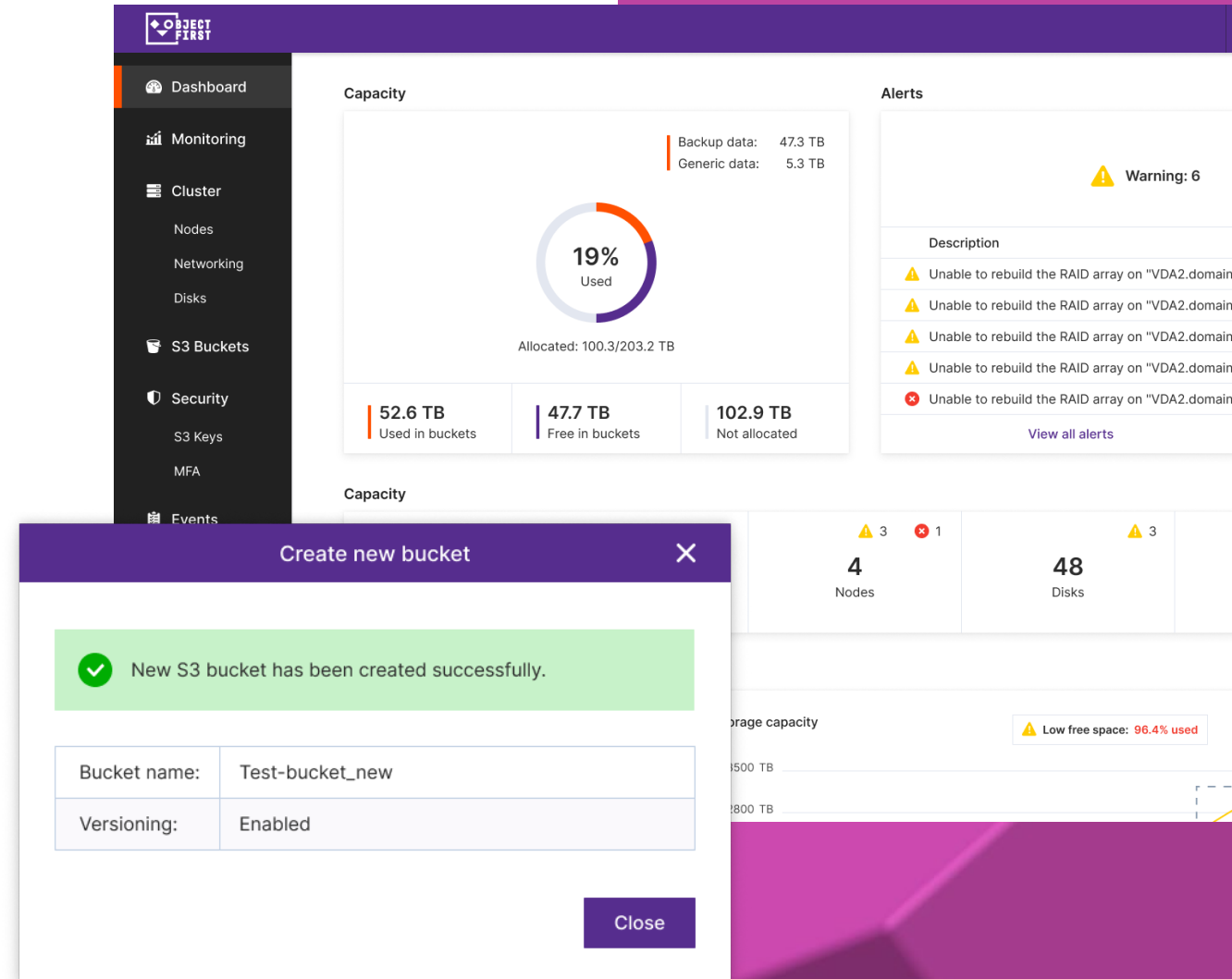
Bucket name:	Test-bucket
Status:	Ok/Maintenance

The owner node stores bucket configuration. Additionally, the owner node stores data from generic S3 clients connected to this bucket.

Close

# Ootbi is Simple

- No security expertise is required
- 15 minutes to deploy and scale
- Mix and match Ootbis of various sizes to build your ideal cluster
- Automatically updated and optimized by Object First



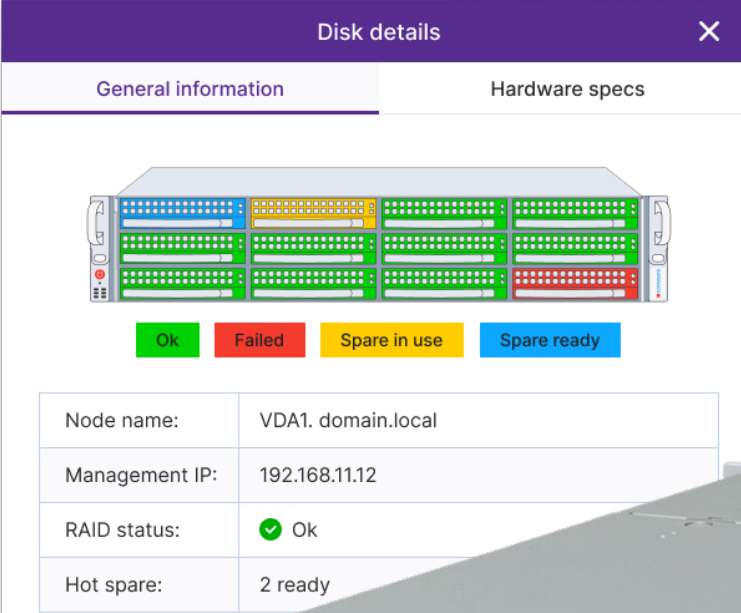
The screenshot displays the Object First Ootbi dashboard. The main interface is divided into several sections:

- Capacity:** A circular gauge shows 19% used capacity. Below it, three bars represent: 52.6 TB Used in buckets, 47.7 TB Free in buckets, and 102.9 TB Not allocated. Backup data is 47.3 TB and generic data is 5.3 TB.
- Alerts:** A warning icon indicates 6 warnings. The description lists multiple instances of "Unable to rebuild the RAID array on 'VDA2.domain'".
- Summary Cards:** 4 Nodes, 48 Disks, and a storage capacity card showing 96.4% used space.

A modal window titled "Create new bucket" is open in the foreground, displaying a success message: "New S3 bucket has been created successfully." Below the message, the bucket name is "Test-bucket\_new" and versioning is "Enabled". A "Close" button is located at the bottom right of the modal.

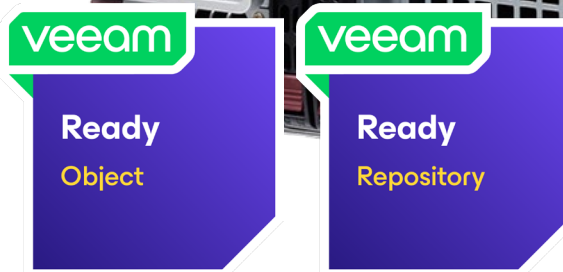
# Ootbi is Powerful

- Supercharged Instant Recovery
- Up to 4GB/s ingest speeds
- Use of standard Veeam block size and encryption
- Object storage engineered explicitly for Veeam



The screenshot shows a 'Disk details' window with two tabs: 'General information' and 'Hardware specs'. Below the tabs is a server rack diagram with colored indicators for disk status. Below the diagram are four status buttons: 'Ok' (green), 'Failed' (red), 'Spare in use' (yellow), and 'Spare ready' (blue). A table below shows the following details:

Node name:	VDA1. domain.local
Management IP:	192.168.11.12
RAID status:	✓ Ok
Hot spare:	2 ready



Two blue Veeam Ready badges are shown. The first badge is labeled 'Ready Object' and the second is labeled 'Ready Repository'.

# Randy O'Donnell

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Configuring Veeam  
backup jobs for  
immutability



# Stop ransomware with on-prem immutability



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Thank you for taking  
your time to join us!



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