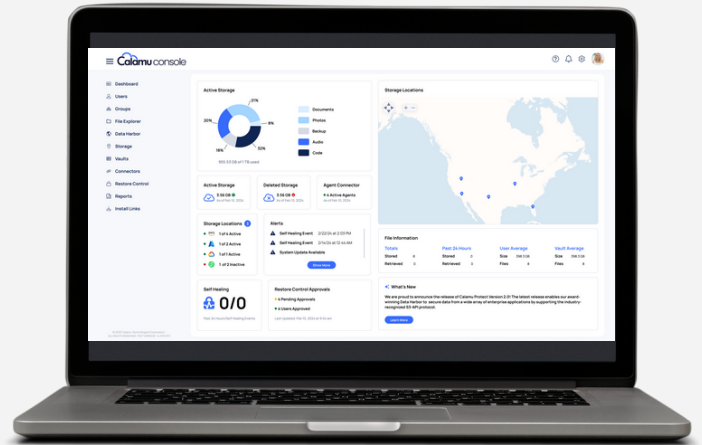


# Calamu Data Harbor

## Cyber Vaulting-as-a-Service for the Modern Cloud Era

Backup data is facing a number of new vulnerabilities as workloads shift to the cloud. Common best practices such as creating redundancies only exacerbate this problem as more data copies means more attack surfaces. And as IT teams balance the diametric need to keep data secure from these threats while also maintaining competitive service-level agreements, many are looking toward **virtual air gap** solutions as the much needed compliment to the 3-2-1 backup strategy.



### Why Virtual Air-Gapping?

The 3-2-1 backup strategy dictates three copies of data, on two different media, with one of them in an off-site location. The air-gap model in which data is stored in an isolated environment has been a popular choice to achieve this.

While secure, air-gapping is time and resource intensive with slow recovery times and a cumbersome process to update backup snapshots.

The virtual air-gap creates the logical separation between the production environment and the backup repository and maintains a critical zero-trust framework while ensuring overall data availability.

### Key Market Drivers

#### 93% of Ransomware Target Backups

Backup repositories are often the first target during an attack because they hold a wealth of sensitive information that can be used as leverage and they cripple recovery efforts.

#### 75% of Victims Lose Backup Data During an Attack

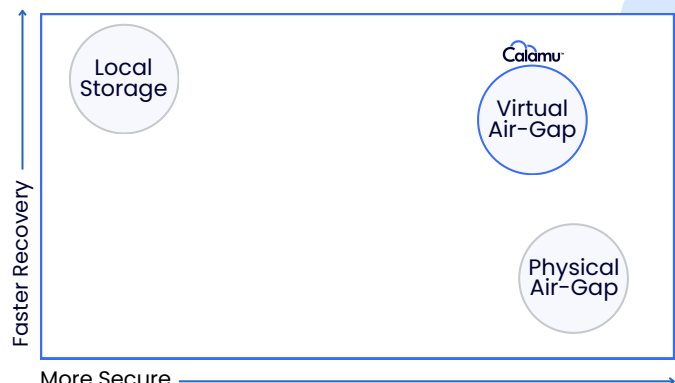
Recent estimates show that most ransomware victims will lose some if not all of the data held in their backup repository during a ransomware attack.

#### Cloud Storage Is the Main Attack Vector

As ransomware tactics shifted to exfiltration, the attack vector also shifted to cloud storage. As businesses increasingly move workloads to the cloud, this problem will compound and persist.

### Security Meets Faster Recovery

In harmonizing data security and agility, virtual air-gapping provides a perfect middle ground for businesses to secure backup repositories in the fast-moving cloud era. However, there are many approaches to virtual air-gapping and not all include the same features and capabilities.



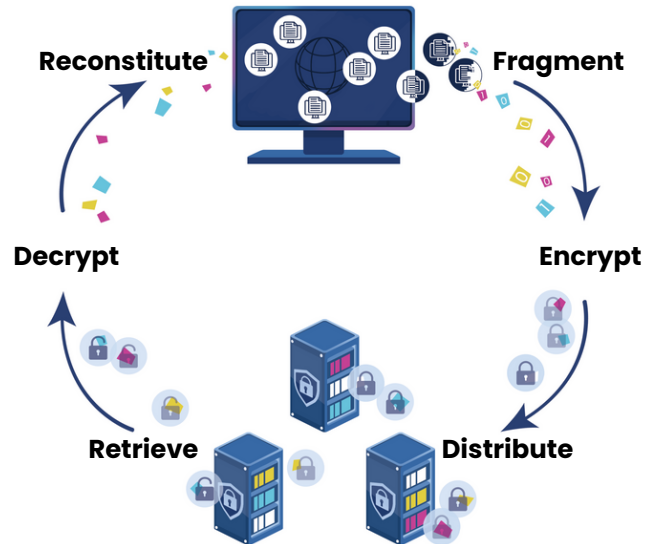
# Calamu Data Harbor

**Done-for-You-Protection That's as Simple as Connect | Protect | Recover**

The Calamu Data Harbor is powered by a proprietary resilience algorithm that disperses encrypted data fragments across multiple cloud locations, creating a virtual air-gap with logical and physical separation from the production data and the rest of the backup systems.

The Data Harbor's transformative process is a modern approach to data isolation. Its multi-cloud architecture ensures that data is safe from ransomware and other cyber threats as no single location holds enough usable information to perform an effective attack.

Unlike other cyber vaulting solutions, a Data Harbor has unique built-in protection layers including AI-driven attack detection, automatic quarantining and self-healing. Done-for-you-protection means the confidence to absorb an attack and carry on with no lost data or inaccessibility.



## Key Benefits of Calamu

### SECURE

Backup data is physically and logically isolated

### RANSOMWARE PROOF

Immutable with data fully obfuscated and encrypted

### BREACH PROOF

Multi-site file sharding renders exfiltration attempts useless

### CYBER RESILIENT

Geo and zone redundant with no single-point of failure

### AUTOMATIC SELF-HEALING

Real-time data accessibility to meet stringent SLAs

### SCALABLE

Dynamic scaling with infinite capacity

### MULTI-CLOUD FREEDOM

Migrate workloads across clouds and hybrid securely

### AS-A-SERVICE CONSUMPTION

Pay-as-you-grow model that works within your existing environment

### WIDELY COMPATIBLE

Veritas, Veeam, Dell, Minio, AWS, GCP, Azure, Wasabi, Backblaze and more

### PROACTIVE ATTACK DETECTION

AI-Driven detection with automatic quarantining

### Plugs into any environment

The Calamu Data Harbor is the only solution of its kind that works with any backup software or tooling.

### Up and running in minutes

Fast deployment and seamless integration for true plug & play protection.

**SPECIFICATIONS**



Virtual Air Gap	✓	<ul style="list-style-type: none"> <li>Logically and physically separated from production environments and other backup systems</li> <li>Data isolation achieved with no rolling blackout windows required</li> </ul>
Immutability	✓	<ul style="list-style-type: none"> <li>Object Locking at fragment/shard level</li> </ul>
Data Security	✓	<ul style="list-style-type: none"> <li>AES 256 encryption in-transit and at-rest</li> <li>Zero trust and fully redundant key management system</li> </ul>
Access Control	✓	<ul style="list-style-type: none"> <li>Multi-factor authentication for administration console access</li> <li>Restore Control™ multi-party verification for critical file actions such as read, restore, and delete</li> </ul>
Ransomware Detection	✓	<ul style="list-style-type: none"> <li>AI-based anomaly detection and self-quarantining</li> </ul>
Rapid Recovery	✓	<ul style="list-style-type: none"> <li>Always-on availability means no lockout periods or rolling blackout windows</li> <li>Parallel cloud processing accommodates stringent RTO</li> </ul>
Self-Healing Remediation	✓	<ul style="list-style-type: none"> <li>Fully redundant distribution across multiple locations</li> <li>Self-quarantines infected data and redirects logic to unaffected data locations within the Data Harbor</li> </ul>
Public Cloud Availability	✓	<ul style="list-style-type: none"> <li>Data fragments can be stored in AWS S3, Azure Blob, Google Cloud Storage, Wasabi, Backblaze, more</li> <li>Flexible storage classes for long term archival (coming soon)</li> </ul>
Wide Compatibility	✓	<ul style="list-style-type: none"> <li>Connectivity with Veritas, Veeam, Dell, and all S3-compatible software</li> <li>Connector agents available for direct protection of file system data and Microsoft OneDrive</li> </ul>
As-a-Service Consumption	✓	<ul style="list-style-type: none"> <li>Pay-as-you-grow pricing based on data volume</li> <li>Rapid deployment and configuration takes only minutes to connect, protect, and recover</li> </ul>
Centralized Management	✓	<ul style="list-style-type: none"> <li>Central management console to set policies, and to monitor security and usage analytics</li> </ul>



**Calamu Data Harbor**

Done-For-You-Protection that's as simple as Connect | Protect | Recover

[Get Started](#)

