

## Panzura Vizion.ai™

### Unlock the power of data with Vizion.ai, the Multi-Cloud Data Management Platform

Meet Vizion.ai, a new multi-cloud data management platform service from Panzura. Vizion.AI delivers a single, unified vision into data across the enterprise and provides powerful search, analysis, recovery and control of multi-cloud data for greater productivity, operational intelligence, improved security and reduced storage costs.

#### Multi-Cloud Index and Search

Indexing and search functions are powered by Vizion.ai's breakthrough hyper-scale, multi-cloud data engine, helping companies quickly query and locate data across multiple clouds. Running on this hyper-scale data engine is Elasticsearch, a multi-tenant full-text search engine with schema-free NoSQL document store. The combined solution enables customers to scale from 1 record to billions with immediate search results across an unlimited number of record types and unlimited number of data repositories.

#### Multi Cloud Data Analytics

The platform service also provides a powerful analytics engine that addresses a broad range of use cases. With integrated machine learning, Vizion.ai provides cloud cost analytics based on historical usage trends to estimate cloud savings based by moving to lower-cost tiers of storage. With audit data search, forensic discovery can be used to track user behavior and actions across multiple files, folders and clouds.

#### Multi-Cloud Data Control

The multi-cloud data engine enables control of data movement across sites and across clouds. When integrated with the Panzura Freedom NAS, users have the ability to restore or clone data sets from previous snapshots or backup sets to original or alternative locations. Example use cases include cloning a database backup to a DevOps user or restoring a VMware backup set from your Los Angeles data center to the eastern region of VMware Cloud in AWS.

#### Highlights

- **New platform for indexing and searching across multi-cloud and traditional enterprise data repositories**
- **Powerful built-in machine learning -based analytics engine**
- **Single sign-on federation with Active Directory for end-user file search and restores**
- **Open API enables integration with enterprise applications and workflows**

## The File-based Data Explosion

Unstructured data is exploding. The average enterprise is doubling its data volume every 2 years, and 80% of the new content is unstructured. These data sets are coming from everywhere as part of the overall enterprise trend to digital transformation. Example file types include database backups, virtual machine backups, machine data such as server logs, medical images, security cameras, geophysical images, and user generated content like internal training videos, document scans, screen recordings and traditional office documents.

## The Multi-Cloud Challenge

To solve this, most companies are looking to leverage the cloud to increase corporate agility, reduce cost and drive higher corporate productivity. In fact, 82% of corporations are planning to use multiple clouds, with an average of 4.8 clouds used per enterprise. IDC estimates that by 2021, \$530 Billion will be spent on cloud technologies globally with 90% of that spending being multi-cloud.

Yet along with this multi-cloud future comes a dark side. Data sprawl. Data is becoming spread rapidly across the enterprise and across organizations – from DevOps to HR to IoT to SaaS Applications like Office 365 and Dropbox. Data islands are forming—data that gets segmented by users and applications, living in separate silos on separate infrastructure and separate sites. Creating governance and compliance headaches and making the unified search for data across the enterprise practically impossible.

## Performance and Scale for Data Indexing and Search

There are 2,312,000,000 files in an average PB of enterprise storage according to Veritas. And According to IDC, the average company spends \$2.5 million a year on data search. An inability to instantly locate, search, index, access and mobilize the most current and accurate data greatly hinders executive insight and action.

Vizion.ai speeds time to insight with its hyper-scale Multi-Cloud Data Engine architecture with integrated Elasticsearch. This enables a file search across billions of files with sub-second response time, as well as an API for integrated machine-to-machine data search workflows.

Upcoming releases will further boost business productivity, value and bottom-line impact with deep content search and user-defined policies creating alerts for vital information.

## Powerful Analytics Platform

In a world where G.D.P.R. regulations drive your data policies, and the threat of cyberattacks imperil your intellectual property, data control and auditing capabilities are now mission critical in every organization.

Example: A traveling executive visits multiple company offices, accessing different data in the cloud. Suddenly, an urgent demand for a high-stakes discovery: Provide a record of all files that he touched over the past week.

Vizion.ai is a powerful, automated tool for compliance and security. Your team can search metadata for a specific user, file type, share, date ranges, when modified or accessed, etc. across multi-clouds and Panzura filers, speeding discovery. This ability to audit user behavior patterns helps identify and alert unusual activity before a rogue employee causes serious reputational and financial damage.

## Key Capabilities

- Hyper-scale Multi-Cloud Data Engine
- Multi-Cloud Data Index and Search
- Multi-Cloud Data Analytics
- Multi-Cloud Data Control

*Save up to 60% on your cloud storage costs by using machine-learning in Vizion.ai*

## Multi-Cloud Control

Velocity may be the single most under-appreciated aspect of cloud data management. Quickly locating the right version of enterprise data is often only half the challenge. Making that data quickly, safely and easily available to another location, across the office or the world, is the other.

In a “sun never sets” scenario, your global DevOps teams burst workloads in and out of clouds and between countries. When you control your data, you can clone and move it on the fly between data centers or geographies, so that as the software team in California ends their day, the terabytes of working set files are already replicated to the Bangalore office in the morning. This enables for a continuous global DevOps cycle with a single truth of the data that is always cloud-protected, versioned, snapshotted and always up-to-date.

In addition to recovery and cloning operations, moving data to the right storage tier for the best cost/performance trade-offs is imperative. There are over 64 different cloud object storage/SLA pricing permutations between Google, AWS and Azure when accounting for multiple tiers with multiple regional pricing variations. Selecting the optimum tier and moving your data sets to the optimum tier is a service offered through Vizion.ai.

## The Multi-Cloud Data Engine

The technical foundation of Vizion.ai rests upon Panzura’s new Multi-Cloud Data Engine. The MCDE is a Kubernetes-orchestrated platform consisting of an application layer that contains:

- Secure multi-tenancy
- Metadata ingestion engine
- Metadata indexing engine
- Metadata search engine
- Data movement engine
- Scale-out distributed flash cache tier with global deduplication and tiering to object storage
- Analytics plug-in modules
  - » API
  - » NFS/SMB Storage environment collection and analytics
  - » File audit search and analytics

Presenting a GUI into the MCDE is the Vizion.ai Management portal that includes

- Multi-tenant enterprise portal with single sign-on federation
- Usage and metrics presentation
- Enterprise billing
- Open API architecture for third party data plug-ins
- Global Search
- Presentation and reporting layer for analytics engines

## Open API for integration with 3rd Party Applications

The fast-moving shift to multi-cloud has brought new challenges and opportunities to VPs of IT, storage administrators, cloud architects, developers and other technologists and leaders. Vizion.ai is an open API platform that enables a new world of multi-cloud data applications – from IoT to security monitoring to log analysis machine learning.

Vizion.ai provides plug-ins for both Panzura and third-party data applications, and services. Use the API and leverage your existing investments and create new capabilities.

- Integrates with Panzura Freedom NAS for search and audit, but not required
- Elasticsearch API and native access API bring Vizion.ai’s metadata indexing power to NetApp, Dell/EMC, Isilon, Hitachi, as well as generic Windows and Linux servers
- Pay for what you use enables simple usage-based billing for 3rd party applications.



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