



# Discover, Define, Act, Transform, and Audit

via a AI-powered self-service data management software to bring a fresh approach to privacy, compliance and governance in the world of AI-led workloads

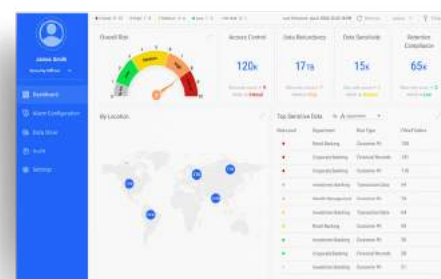
The plethora of software, costing tens of millions, deployed by different departments has created operational silos that lead to ineffective data management. The result of these inefficiencies is incremental data exposure and risk, non-compliance with regulatory data privacy requirements, and increased storage costs.

At Data Dynamics, we worked with our customers to understand their challenges, leading to the creation of **Zubin, our AI-powered self-service data management software**. Zubin addresses these challenges by providing a user-friendly interface that delivers appropriate insights, derives suggestive workflows, and automates actions using policies for consistency across the organization. The software can be deployed within customer environments locally or in their cloud instances without requiring any call-home or external ports to be exposed. This ensures a secure deployment within the construct of the customer’s environment.

Integration with Active Directory ensures that relevant information and actions correlate to roles and responsibilities. Corporate governance is enhanced by giving data owners control over their data within the confines of company policies, ensuring standardization across the organization. Zubin is designed with scalable infrastructure in mind, providing a microservices-based architecture and integration with existing processes leveraging REST API for every function it provides.

## Primary use cases for Zubin include:

- Visibility Into Existing Unstructured Data Footprint Across All Data Constituents
- Risk Identification of Data Exposure With Actionable Resolution
- Privacy Management With Intelligent Data Classification for AI Models
- Ensuring Data Sovereignty Across Global Data Footprint
- Data Owner Empowerment To View and Act On Their Data
- Storage Optimization and LCM Across Hybrid Cloud Infrastructure
- Self-Service Data Classifications and Migrations
- Policy-Based Transfer of Data Ownership To Avoid ‘Orphan’ Data
- Classify and Integrate OnPremise Data With Microsoft DLP



Enterprise Risk Posture Dashboard



Enterprise Infra-Usage Dashboard



Data Risk and Usage Reporting by Data Owner

# Technical Specifications

## Security

- Built-in Security Features:** Role-based access control (RBAC) integrated with Active Directory and LDAP. Data encryption at rest and in transit using industry-standard algorithms. Zubin integrates with Elastic Stack for comprehensive security monitoring and incident response.
- Data Encryption:** Supports multiple data encryption algorithms to ensure data confidentiality at rest and in transit.

## Scalability

- Data Stores Supported - File and Object:** Standard CIFS/NFS/S3, OneDrive, Azure Blob
- Distributed Deployment:** Scalable architecture allows for elastic resource allocation based on required throughput and data volume. Zubin processes multi-petabyte datasets and facilitates data sharding across multiple nodes for parallel processing.
- UDE (Unstructured Data Engine™):** Incorporates a hub-and-spoke architecture, leveraging a single central Zubin instance with scalable UDE (execution engines) to provide performance at scale. UDE leverages AI and machine learning algorithms to extract meaningful insights from unstructured data sources.

## Architecture

- Microservices-based Architecture:** Utilizes containers for modularity, scalability, and independent deployment. Communication between microservices occurs through a lightweight API gateway, ensuring efficient resource utilization and fault tolerance.

- Container Orchestration Platform:** Automated deployment, scaling, and management of containerized microservices.

## Deployment

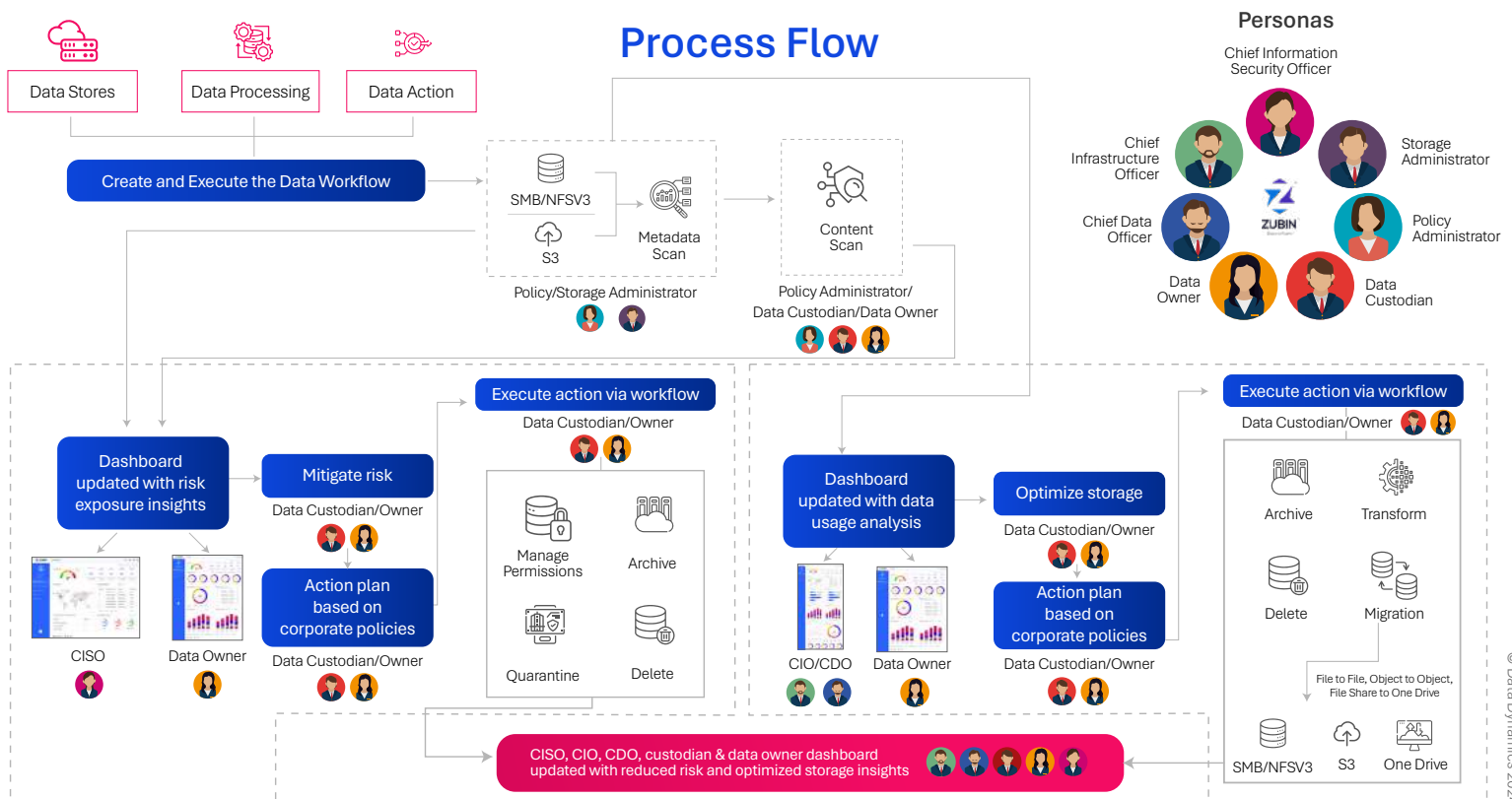
- Hybrid Deployment:** Supports on-premises, cloud, or hybrid deployments for maximum flexibility. Microservices architecture allows for high resilience and availability by auto-scaling individual components based on the required throughput or load.
- Multi-cluster Deployment:** Deploy across multiple cloud regions and data centers with centralized licensing, deployment, and resource management, using secure communication protocols.

## Integrations

- Pre-built Open APIs and Connectors:** Supports seamless integration with existing data infrastructure and tools through open APIs and connectors. Pre-built connectors for popular on-premises and cloud data storages facilitate data ingestion and management.

## Protect and Scale

- High Availability and Disaster Recovery:** Employs high availability and disaster recovery strategies to ensure continuous data access and minimize downtime in the event of failures. This includes data replication, geo-clustering, and automated failover mechanisms.
- Performance Optimization:** Utilizes caching mechanisms, data compression techniques, and query optimization strategies to optimize data access performance and minimize latency.



Your next chapter of success awaits; let's write it together with Zubin.

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