



DataClarity Data Platform

www.DataClarityData.com



OVERVIEW

A data platform for business to rapidly access, prepare, and analyze any data from anywhere

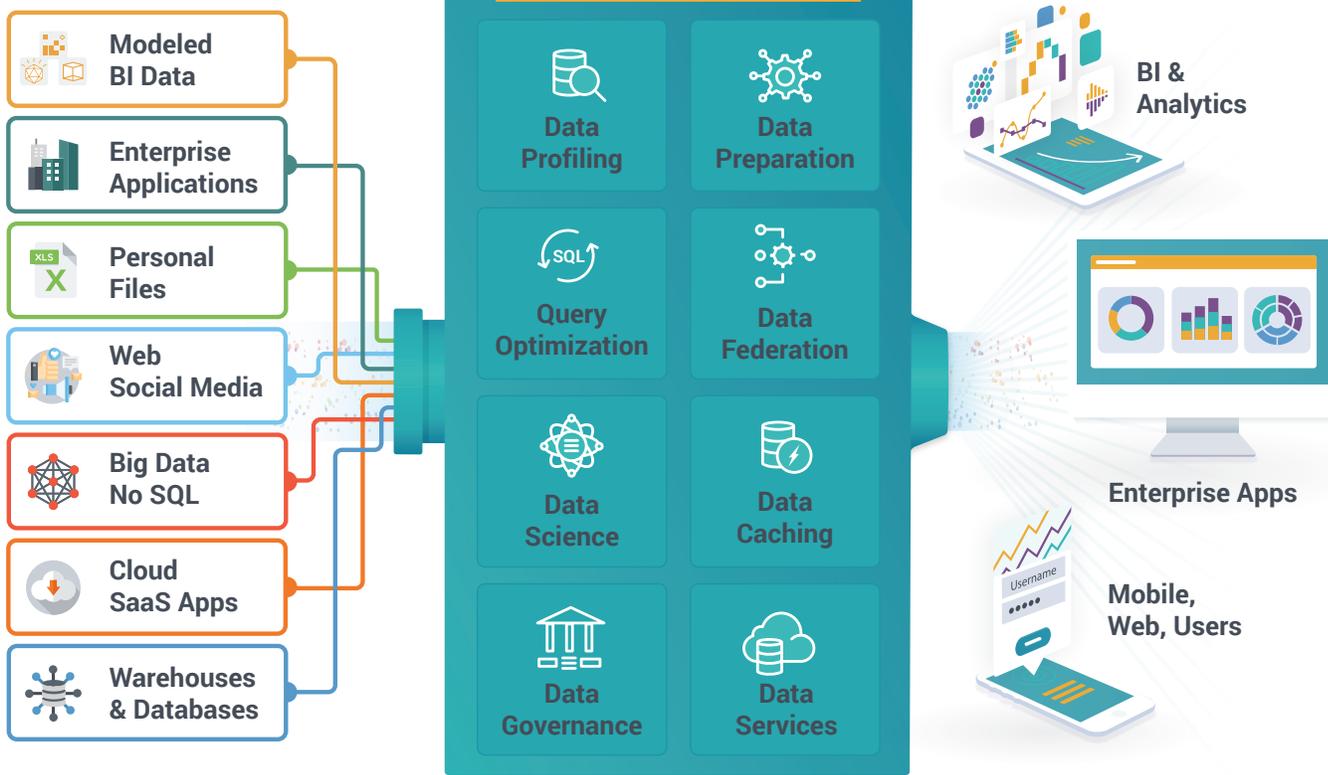
DataClarity helps people easily access and perform self-service preparation of data to ensure trusted information is available across the business to make faster and better decisions. Purpose-built as an enterprise platform employing data fabric architecture spanning on-premises and multiple cloud environments, DataClarity unifies hundreds of unique data sources and data science models for use with industry-leading tools, platforms, and applications -- by making your governed data instantly available in any application, business intelligence, or AI/ML platform, DataClarity provides a single consistent version of truth to users across the enterprise.

This powerful yet easy-to-use data platform is the ideal solution to deliver trusted data at scale, prepare it intuitively, and get to analysis faster and with more confidence.



DataClarity

DATA VIRTUALIZATION





The screenshot displays the DataClarity interface. At the top, it shows 'STEP 3 - JOIN AND PREVIEW'. Below this, there are sections for 'DATA SOURCES', 'APPROVED JOINS', 'RECOMMENDED JOINS', and 'DATA SOURCES WITH NO JOINS'. The 'APPROVED JOINS' section shows a diagram of joins between tables: 'Sales' (Location ID), 'Products' (Product ID), 'Store Types' (Store Type ID), and 'Countries' (Country). The 'DATA SOURCES WITH NO JOINS' section lists 'Locations' (Country, State, City) and 'Sales' (Sales Date, Store Type ID, Location ID, Customer ID, Items per transaction, Unit Price, Discount, Gross Sales, Manufacturing Cost, Sales Cost, Profit, Parent Store Sales, Parent Profit).

The 'Data preview' section shows a table with columns: Country, State, City, Sales Date, Items per transaction, Sales per transaction, No of customers, Quantity, Unit Price, Discount, Gross Sales, Manufacturing Cost, and Sales Cost. The table contains 10 rows of data for various locations in Australia and Victoria.

Country	State	City	Sales Date	Items per transaction	Sales per transaction	No of customers	Quantity	Unit Price	Discount	Gross Sales	Manufacturing Cost	Sales Cost
Australia	Victoria	Echuca	Nov 19 2014	15	735	15	36	501	0.05	17134.20	1.90	847.58
Australia	Queensland	Brisbane	Oct 6 2015	15	339	12	19	280	0.06	67.80	1.90	847.58
Australia	Queensland	Brisbane	Oct 6 2015	15	735	15	36	501	0.05	17134.20	1.90	847.58
Australia	Queensland	Brisbane	Jan 12 2014	9	339	12	19	280	0.06	67.80	1.90	847.58
Australia	Queensland	Superny	May 29 2014	6	417	11	39	348	0.05	7980	1.90	847.58
Australia	Queensland	Brisbane	May 13 2014	7	592	12	43	348	0.05	46.55	1.90	847.58
Australia	Victoria	Brisbane	Jan 17 2015	15	171	11	39	348	0.05	12893.40	0.96	164.80
Australia	Victoria	Melbourne	Jul 17 2014	15	199	5	30	5	0.05	237.35	271.44	164.80
					335	12	40	6	0.05	216.40	5.76	5.93
						14				4.80		

+ Empower your business users globally to achieve trusted insights with self-service access to the data they require without sacrificing performance, security, or governance

SELF-SERVICE DATA PREPARATION

By integrating data preparation, data science, and data caching, users can combine any number of data sources located anywhere and share the prepared, processed, and cached datasets across the enterprise to achieve trusted business insights

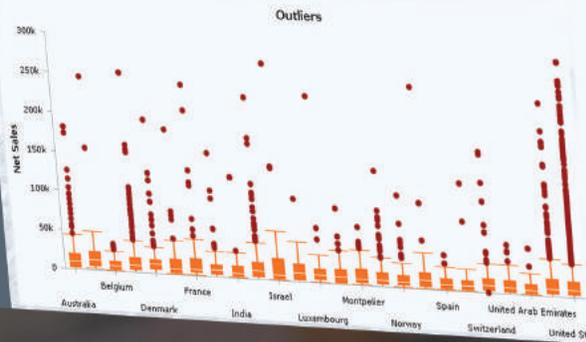
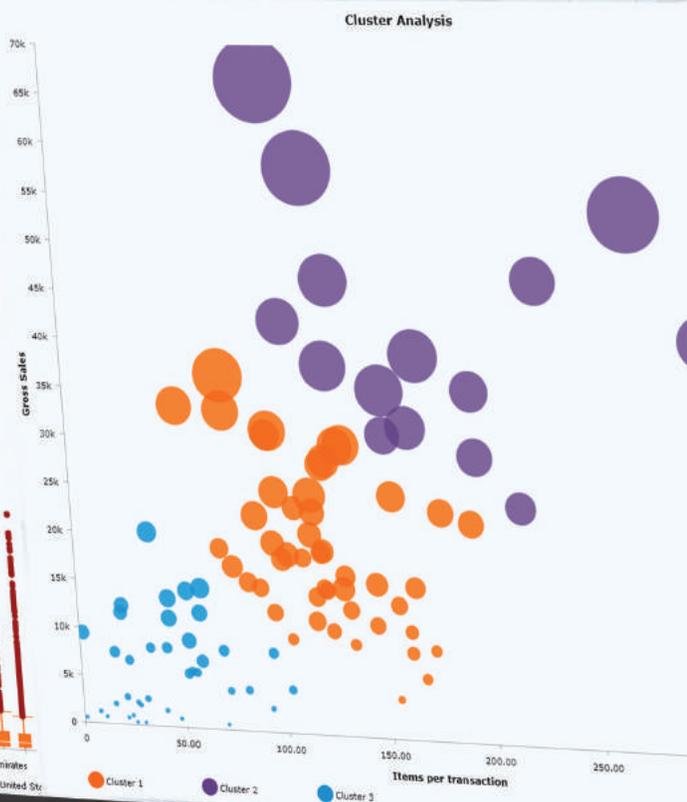
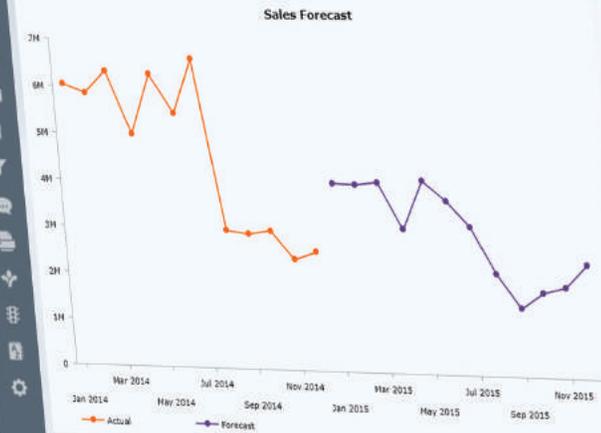
- ✓ **Access Any Data Source Anywhere** Real-time access to any data source from anywhere without movement or replication including raw and modeled data from personal files, relational, analytic, NoSQL and GPU databases, multi-dimensional OLAP cubes, cloud applications, and other on-premise and cloud big data from lakes, warehouses, marts, and real-time operational data stores.
- ✓ **Self-Service Data Integration** Users can discover, profile, prepare, create, and manage trusted virtual datasets using disparate data from multiple systems, locations, and technologies without the cost and overhead of physical data consolidation.
- ✓ **Consume Data Anywhere** Make your data instantly available for consumption in any application, business intelligence or analytics tool, such as Tableau, Power BI, DataClarity, and many more.
- ✓ **Built-in Data Science Acceleration** Seamlessly operationalize both built-in and pre-curated R/Python machine learning and AI models deployed on open third-party platforms with real-time full-scale production business data.
- ✓ **Intelligent Customizable Query Caching** Maximize performance with smart query optimization and scalable in-memory query caching driven by machine learning and rules you easily customize to optimize performance for your data, applications, and users.



BUILT-IN & EXTENSIBLE AI/MACHINE LEARNING

To accelerate and operationalize the broadest spectrum of machine learning and AI data processing capabilities, DataClarity connects directly to core data virtualization and caching processes utilizing both built-in and external pre-curated models executing on third-party data science platforms

- ✓ **Self-Service Data Science** With no programming or data science experience, business users and citizen data scientists can prepare their own data and perform advanced processing and analysis with a broad array of built-in forecasting, clustering, optimization, classification, decision tree, and outlier analysis models.
- ✓ **Extensible AI Services Architecture** Data scientists can rapidly operationalize pre-curated R/Python machine learning and AI models deployed on third-party platforms including Microsoft Machine Learning, RServe, TabPy, and DataClarity Python with real-time full-scale production business data.
- ✓ **AI/ML Application Acceleration** Existing data science platforms, infrastructure, and tools integrate seamlessly with data virtualization, analytics/BI visualization, storyboards, and digital experience through the extensible AI services architecture to create a turnkey production environment for AI/ML applications.
- ✓ **Advanced Calculations and Statistical Functions** Perform complex data manipulation and analysis using built-in functions ranging from basic data aggregation to advanced statistical calculations supporting standard deviation, linear regression, correlation, and covariance.



Business users can prepare data and perform advanced analysis using built-in models while data scientists rapidly operationalize their pre-curated models through the seamless integration of numerous open third-party platforms



CachingManager

Monitor

Summary

Dashboard

Analytics

Status

Logs

Configure

Connections

Rules

System

Alerts

Filters

Summary

Query Time Improvement



Database Time Saved



Last 24 Hours

Average Query Time for All Database Queries



	Last Hour	Last 24 hours	Last Week	All-time
Total Queries	34	690	936	2545
Cache Queries	32	295	295	586
% Database Time Saved	93%	32%	17%	11%
Average Time for Live Queries	59.76	1282.81	1769.15	1888.88
Average Time for Cached Queries	4.27	866.76	1462.11	1671.58
Query Time improvement	1300%	48%	21%	13%



Easily scale your data and applications on-premises or in the cloud with DataClarity's elastic caching

CUSTOMIZABLE CACHING

Maximize your performance with smart query optimization and scalable in-memory query caching driven by machine learning and rules you easily customize to optimize performance for your data, applications, and users

- ✓ **Intelligent Cluster In-Memory Caching** DataClarity employs smart and highly-scalable in-memory query and sub-query caching driven by integrated machine learning algorithms and customizable rules you tailor for your data, applications, and users.
- ✓ **Fast Query Performance Across All Data Sources** DataClarity utilizes super-efficient query algorithms and techniques to optimize query execution based on unique processing.
- ✓ **Improved Application Performance and Reliability** The intelligent query caching offloads processing from your applications and data sources by reading data from in-memory cache and minimizing live queries to sources whenever possible. This results in a dramatic reduction in workloads and performance degradation on critical business systems while significantly improving overall query response times.
- ✓ **Scale Effortlessly as Your Applications and Business Grows** DataClarity's elastic and distributed caching capabilities effortlessly scale both vertically and horizontally as your applications and business grows. Whether on-premises or in the cloud, you can easily configure and optimize your cache to handle a broad spectrum of environments and use cases in a very predictable and cost-effective manner.



USER ACCESS MANAGEMENT

DataClarity provides an integrated comprehensive, next-generation security and identity management platform designed to be an integral part of the enterprise security fabric

- ✓ **Built-in Local User Identity and Authentication** Administrators can leverage DataClarity's built-in local user identity and authentication capability to create and manage users, roles, groups, and permissions. Advanced settings for password policies, expiration, auto-registration, email notifications and other settings allow administrators to fully tailor the system and user experience.
- ✓ **Integration with Active Directory and LDAP** Enterprise organizations can leverage their existing Active Directory infrastructure, and provision current users and groups including assignment of permissions and roles.
- ✓ **Single Sign-on Authentication** Existing corporate network user credentials can be leveraged to automatically authenticate users into the platform when DataClarity's built-in SSO is configured for standard protocols including SAML, OAuth, or OpenID Connect.
- ✓ **Web Application Security Integration** Using built-in user provisioning and single sign-on authentication connectors, administrators can easily integrate multiple web applications and tools into portals, storyboards, and apps, and create a unified access and permission experience for all users.
- ✓ **Session Monitoring, Audit, and Reporting** Administrators can centrally monitor all user sessions, and access audit reports based on user activity to improve compliance.

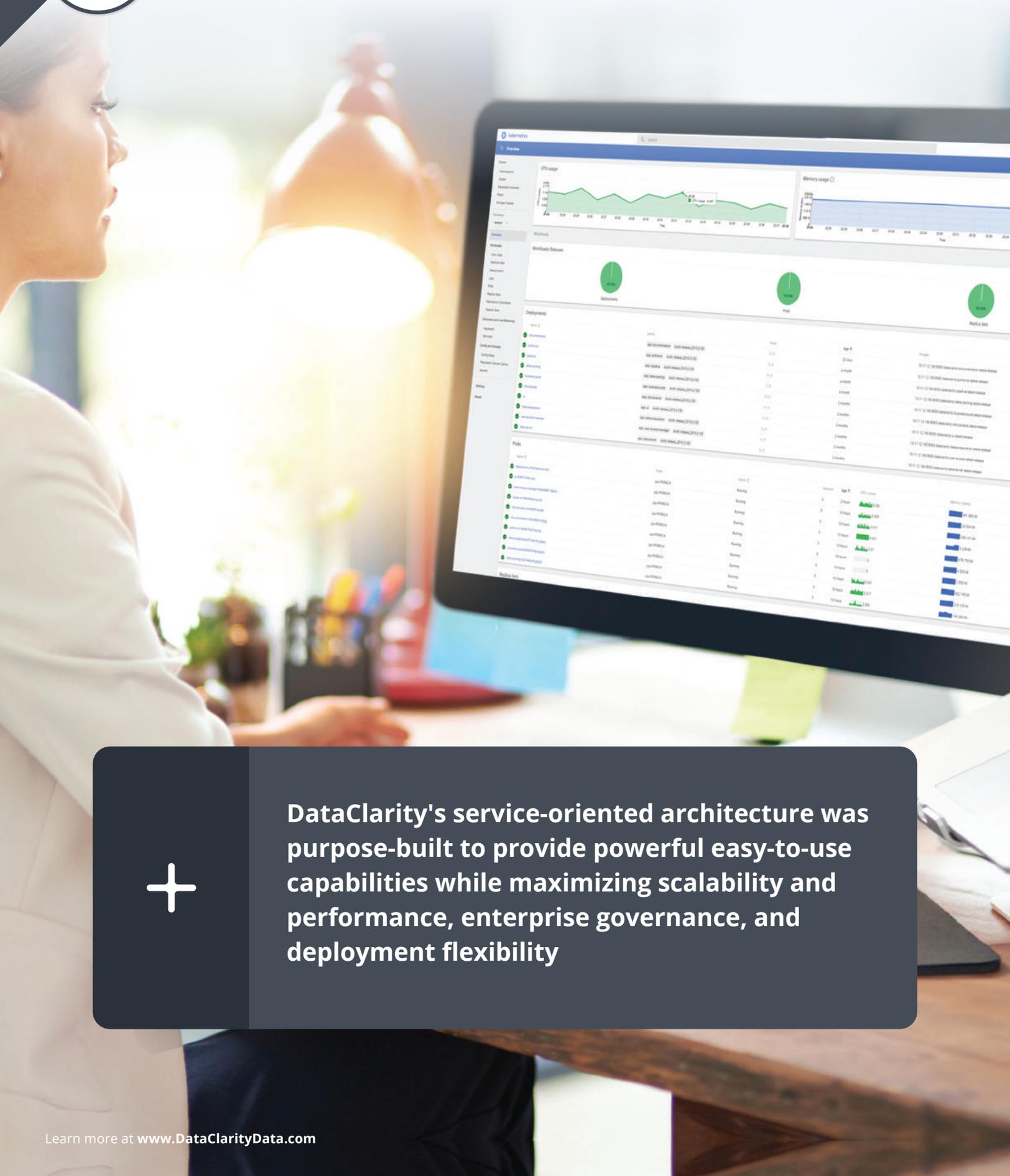
USERS

company View all users

ID	Username	Email	Last Name	First Name	Actions
2d472451-7d72-46ef-858-	criselda.schwantes	criselda.schwantes@com...	Schwantes	Criselda	Edit Impersonate Delete
6924663-1d6c-4d7e-8a06-	dell.peralta	dell.peralta@company.com	Peralta	Dell	Edit Impersonate Delete
3e7bb46-b785-4588-881-	jenette.maser	jenette.maser@company...	Maser	Jenette	Edit Impersonate Delete
9165b2b5-6bb9-4e09-bcd-	lee.regis	lee.regis@company.com	Regis	Lee	Edit Impersonate Delete
7a057951-3ef6-4432-9bd-	marvella.jerman	marvella.jerman@compa...	Jerman	Marvella	Edit Impersonate Delete
3642da74-4832-4937-bcd-	pearly.running	pearly.running@company...	Running	Pearly	Edit Impersonate Delete
50ba8353-a5da-4b20-acf-	queenie.keeley	queenie.keeley@compan...	Keeley	Queenie	Edit Impersonate Delete
0ba5d9f6-55ba-40d6-9ab-	renea.hazzard	renea.hazzard@company...	Hazzard	Renea	Edit Impersonate Delete
9f93f9fb-199c-44e9-5d25-	shemika.wales	shemika.wales@company...	Wales	Shemika	Edit Impersonate Delete
af67eaf4-2cd1-4d7e-bcd5-	sina.zamden	sina.zamden@company...	Zamden	Sina	Edit Impersonate Delete
df2e78b9-64f8-4445-bd9-	sophie.dubois	sophie.dubois@company...	Dubois	Sophie	Edit Impersonate Delete



DataClarity's built-in single sign-on capability allows organizations to federate and store user information from all connected apps, tools, and content, and centrally monitor and manage user provisioning and access including permissions for all users, roles, and groups



DataClarity's service-oriented architecture was purpose-built to provide powerful easy-to-use capabilities while maximizing scalability and performance, enterprise governance, and deployment flexibility



AUTOMATED ENTERPRISE DEPLOYMENT, SCALING & MANAGEMENT

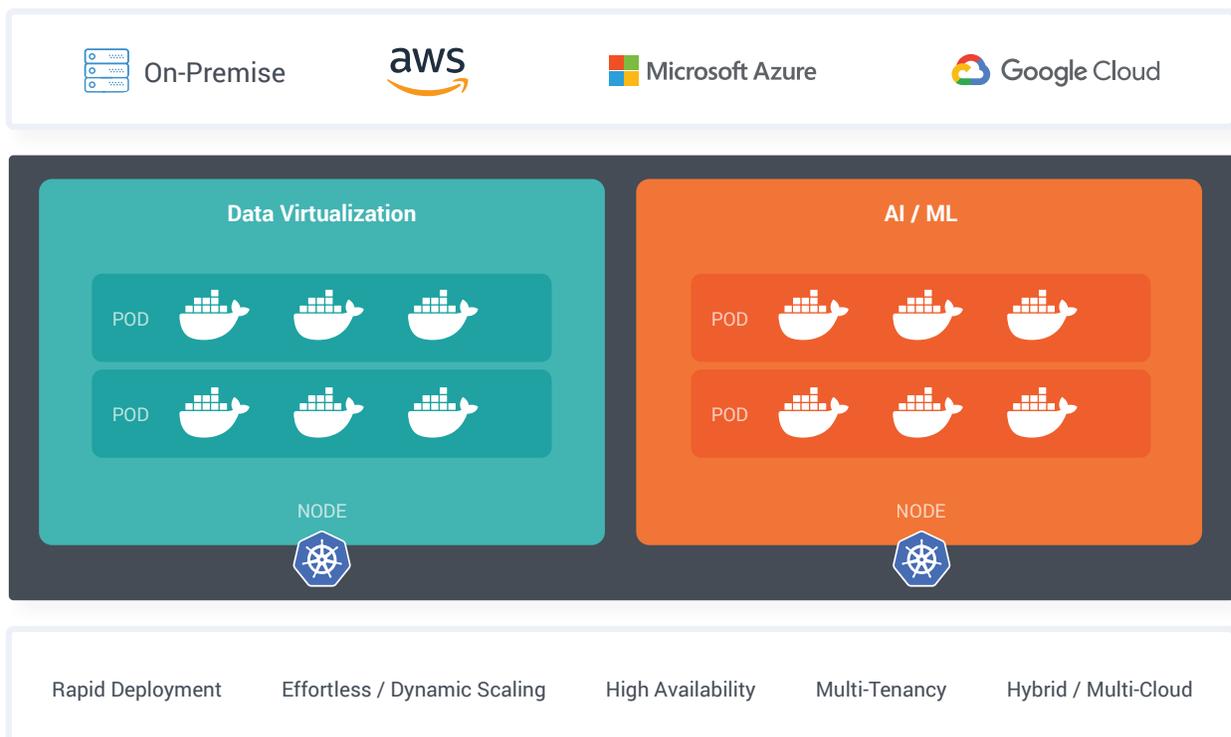
DataClarity is designed to be highly and predictably vertically and horizontally scalable simply by adding more memory, processors, nodes, or clusters with near-linear scale processing improvements for all operations

- ✓ **Distributed Cluster Architecture** DataClarity's distributed cluster architecture provides support for high availability, scalability, and elasticity required by the most demanding enterprise applications.
- ✓ **Containerized Deployment** DataClarity's modular architecture supports container-based deployment, scaling, and management across on-premise, public cloud, and hybrid infrastructure utilizing Docker and Kubernetes technology.
- ✓ **Seamless and Automatic Scaling** At the push of a button or via automatic scaling rules, administrators can easily scale deployments up and down with zero downtime.
- ✓ **Centralized Monitoring and Logging** Fast, dependable, high-quality support is made possible through centralized and consolidated monitoring.

NEXT-GENERATION PLATFORM

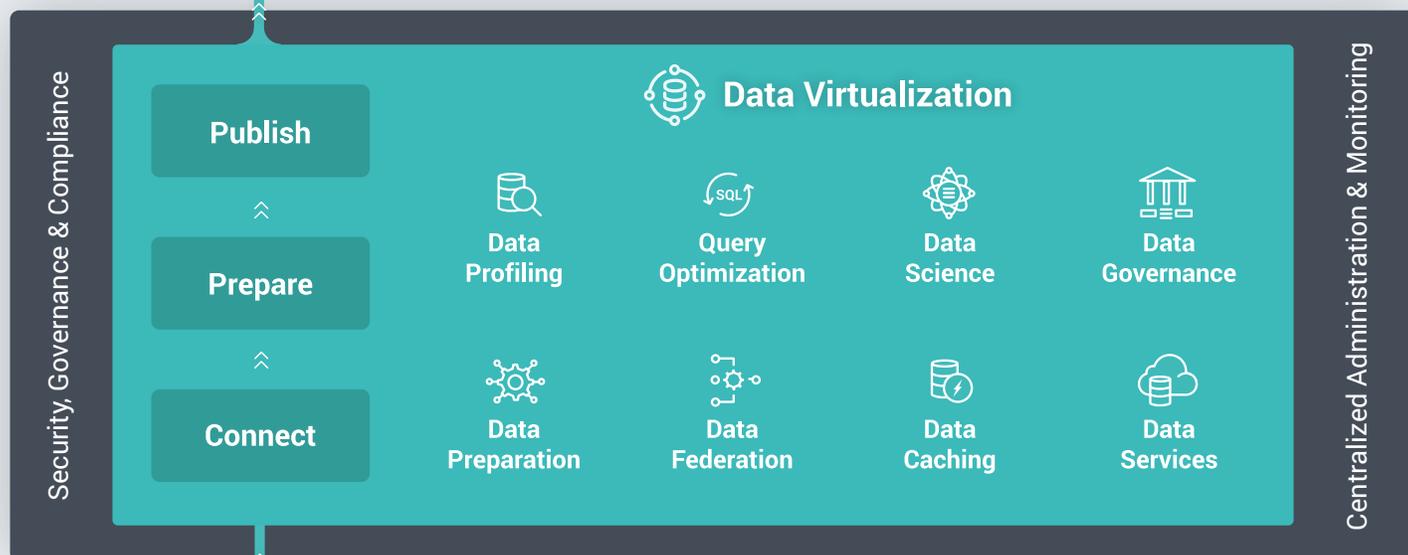
DataClarity's distributed cluster and cloud-ready architecture is designed for high availability, rapid deployment, elasticity, and auto scaling. The modular architecture supports container-based deployment, scaling, and management across on-premise, public cloud, and hybrid infrastructure utilizing Docker and Kubernetes technology.

ON-PREMISE, PUBLIC OR PRIVATE CLOUD



DATA PLATFORM ARCHITECTURE

Data Consumers



Data Sources



Cloud-ready architecture designed for high availability, rapid deployment, elasticity, and auto scaling across private or public infrastructures



OUR COMPANY

DataClarity helps people easily access, prepare, consume, and visualize any data from anywhere, and transform it into actionable information by fully-integrating self-service data virtualization, data science, and data visualization together in a modern digital experience.

Purpose-built as both end-to-end enterprise BI platform and integration hub with analytics fabric architecture spanning on-premises and multiple cloud environments, DataClarity unifies hundreds of unique data sources, models, visualizations, security, and web content across industry-leading BI and AI/ML tools, platforms, and applications.

LEARN MORE

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