

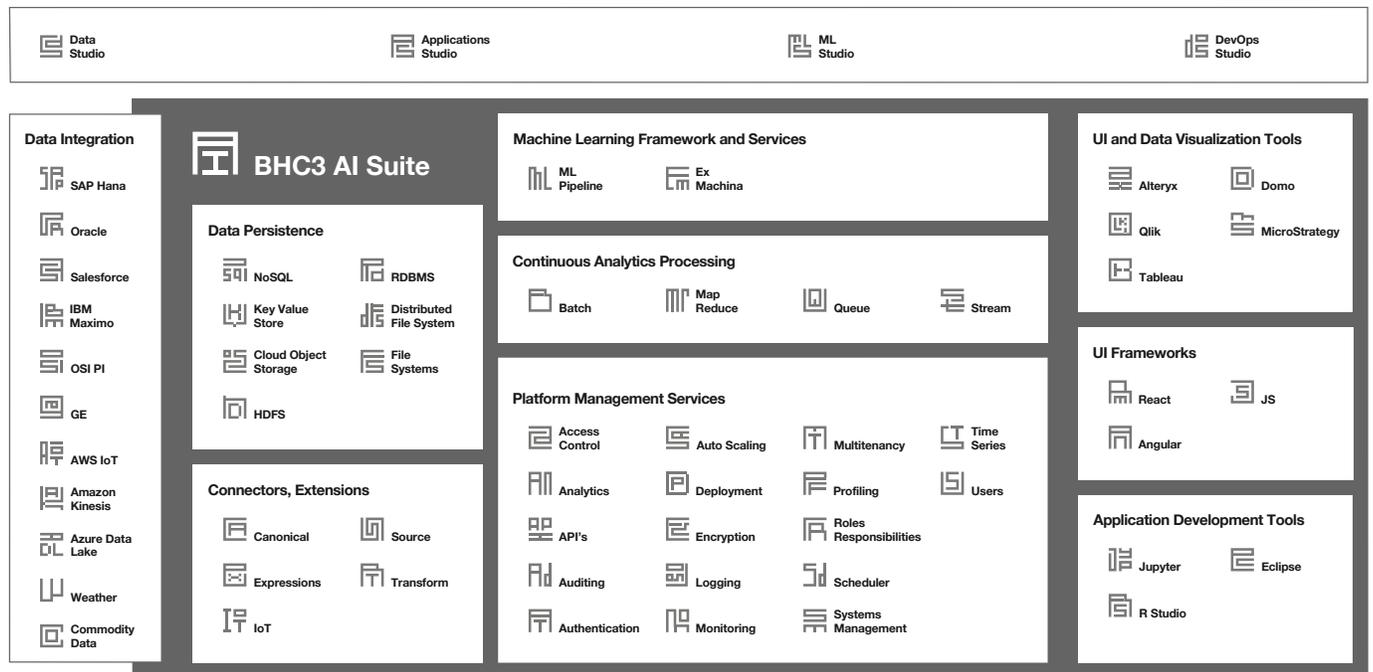


BHC3 AI Suite

Software Suite for Rapidly Developing, Deploying, and Operating Enterprise-Scale AI Applications

The BHC3 AI Suite™ is software that uses a model-driven architecture to accelerate delivery and reduce the complexities of developing enterprise-scale AI applications. The BHC3 AI Suite enables organizations to deliver AI-enabled applications faster than alternative methods.

BHC3 Integrated Development Studio (IDS)



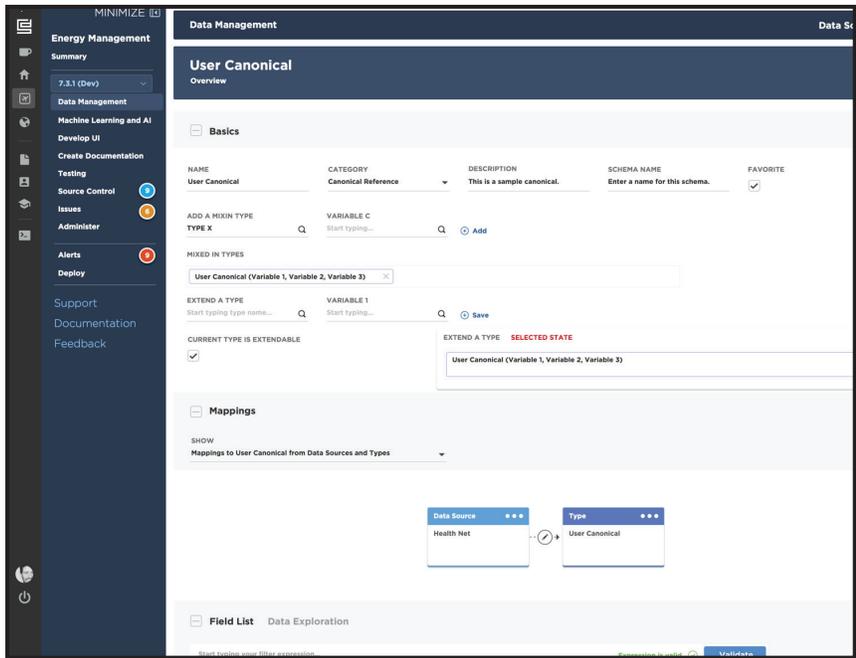
BHC3 Integrated Development Studio (IDS)

BHC3 Integrated Development Studio (IDS) is a low-code/no-code environment for developing, deploying, and operating enterprise AI applications. BHC3 IDS provides data ingestion, data modeling, machine learning feature engineering and model lifecycle management, and a metadata-driven UI development tool. BHC3 IDS allows developers and data scientists to focus on solving business problems by providing an integrated environment that abstracts routine and complex application development tasks, through four environments:



BHC3 Data Studio

A set of visual tools to ingest disparate enterprise, extraprise, and sensor data into a unified, federated image, and design and explore the sources, structure, and contents of the resultant BHC3 Data Model.



BHC3 Data Management

Create custom data integration pipelines from existing source systems into BHC3 data models. Rapidly set up data ingestion pipelines from file systems, relational databases, queues, or streaming sources, using the BHC3 expression library or by writing custom code.

BHC3 Model Designer

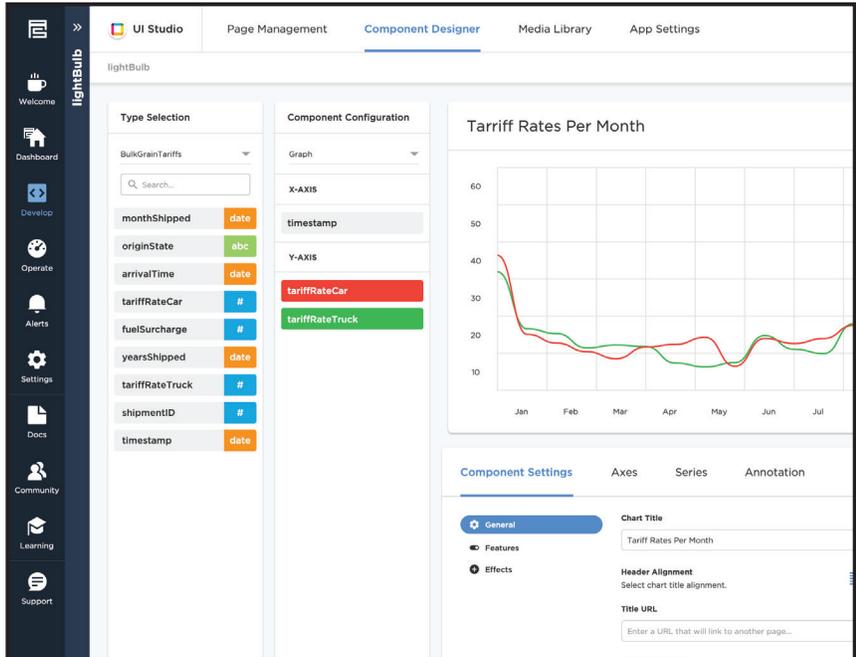
Navigate, explore, and edit BHC3 models. Users can change the composition of BHC3 models, implement its methods, or configure its properties such as the underlying preferred storage system.

BHC3 Data Explorer

Explore data in the BHC3 data models. Users can access, explore, and export data stored in different underlying storage systems—relational, key-value, or object storage systems.

BHC3 Applications Studio

A visual interface and metadata-driven UI designer to develop an application front end and analytics.



BHC3 Expression Designer

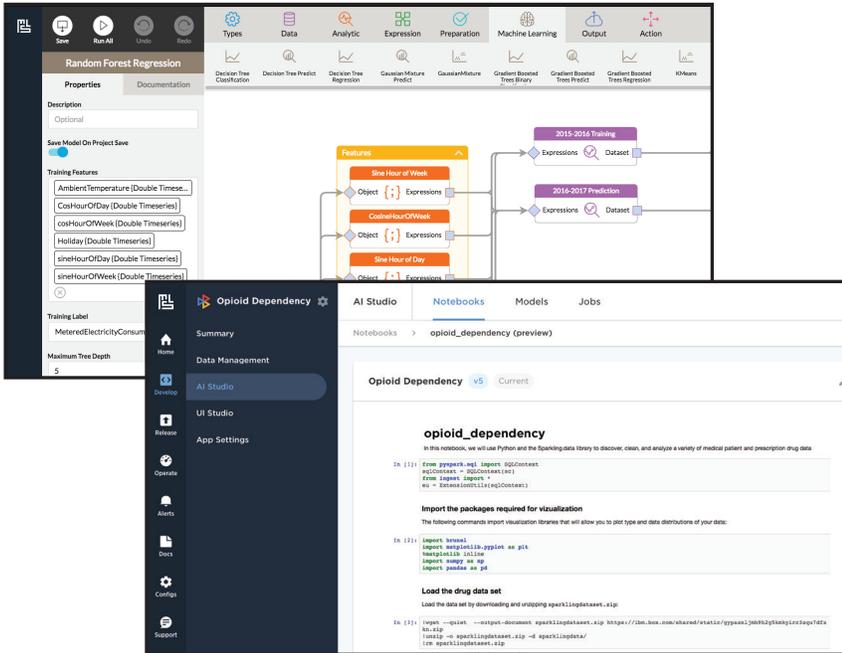
Perform time series analysis on the BHC3 AI Suite. Use a library of time series transformation functions to manipulate and create new time series.

BHC3 UI Designer

Build application user interfaces by creating pages, configuring visual components and defining interactions between elements of the user interface—integrated with the BHC3 model-driven architecture.

BHC3 ML Studio

Data science tools that bring application development and data science disciplines together to accelerate enterprise-scale AI/machine learning development and operation.



BHC3 Model Management

Manage the lifecycle of a machine learning model, including creating, validating, versioning, administering, and monitoring, with model cross-validation, A/B testing, auto-scaling, and roll-back support.

BHC3 Ex Machina

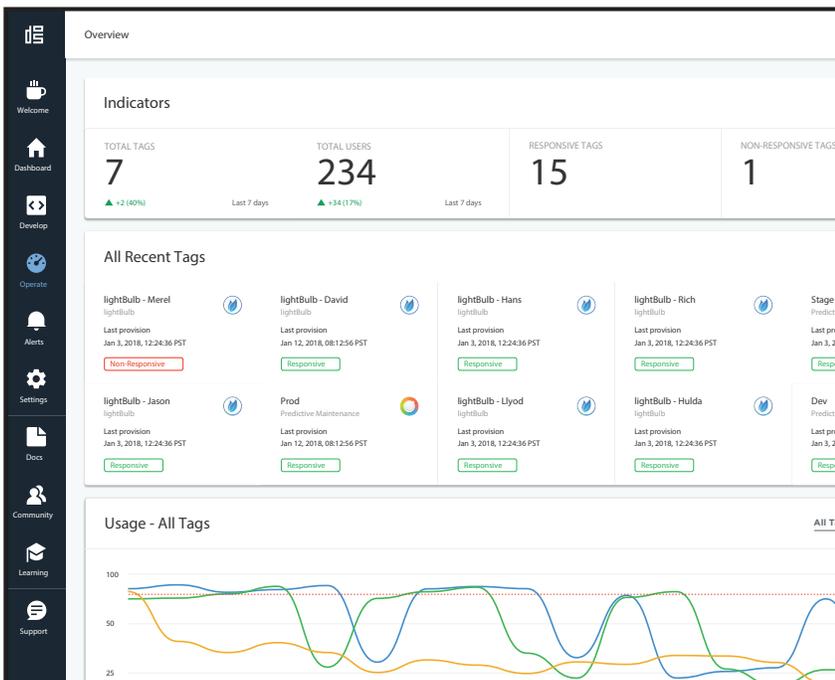
Visually create analytics and machine learning models, process data, and explore data and machine learning tools. BHC3 Ex Machina provides users the ability to analyze, explore, and derive business insights quickly—using a visual interface.

BHC3 Jupyter Service

Explore data, develop machine learning features, and author models using flexibly sized, on-demand Jupyter Notebooks.

BHC3 DevOps Studio

A collection of browser-based tools that cover the DevOps lifecycle for scaling, Continuous Integration and Continuous Deployment (CI/CD), and administration and monitoring.



BHC3 Source Control

Collaborate on code and track changes. Manage your branches and create pull requests from inside IDS.

BHC3 Release Management

Perform managed CI/CD to create builds with automated tests, view test results, create releases, and deploy applications.

BHC3 Monitoring and Administration

Monitor resource utilization and autoscaling, manage work queues, schedule Cron jobs, and use a console for command-line access to the BHC3 AI Suite.

BHC3 AI Suite Services and Capabilities

The BHC3 AI Suite delivers a set of services and capabilities that provide the ability to deliver AI applications faster than alternative methods. The BHC3 model-driven architecture, a set of data integration, management and processing capabilities, time series services, AI and model management, and a security framework all speed data science and application development to accelerate delivery of AI at enterprise scale.

Model-Driven Architecture

Enable greater data science and application developer productivity, rapidly deliver enterprise-scale AI applications, and future-proof existing IT investments. The BHC3 AI Suite uses conceptual models of all the attributes and processes related to a specific entity or domain as well as physical objects or data stores. The BHC3 model-driven architecture can represent application data, metadata, processes, interrelationships, persistence, computing processes, time series expressions, language bindings, and AI/ML tools and algorithms.

Data Integration Services

Enable rapid integration of data from enterprise, extraprise, and sensor data feeds with support for both structured and unstructured data. The BHC3 AI Suite is able to ingest data in batch, stream, or message-based integrations. The BHC3 AI Suite has prebuilt connectors to many common data sources including Postgres, Oracle, SAP, HBase, HDFS, Apache Kafka, AWS Kinesis, OSI PI, and Cassandra. Data integration services are extensible, enabling developers to configure and enable additional connectors.

Data Management Services

Enable persistence of large volumes of data, while also making data readily available for analytical calculations. Virtualize external data stores within the BHC3 AI Suite for AI algorithms and applications. Data management services include data federation, management of and interaction with multiple databases, and persistence of data in the appropriate data store.

Time Series Services

Enable persistence, processing, and representation of data objects as time series, including the ability to normalize or calendarize data (e.g., time-align data, retrieve time series at different time intervals), identify and flag gaps in data, manage data that are received out of sequence, and apply pre-built (or custom) mathematical expressions on time series data. Seamlessly manage time series data and costs across hot (fast reads/writes, higher costs) and cold (slower reads/writes, lower costs) storage.

AI and Model Management Services

Manage models across machine learning life cycle stages, including model design and experimentation, model training and evaluation, model integration and deployment, production inference, and model maintenance.

Security

Deliver end-to-end authentication and authorization, including access control to data and methods, using the role-based, and certified C3 security framework. SOC2, SOC3, NIST, and HIPAA attestations.

Private & Public Cloud

Deploy to your private or public cloud instance on Azure, AWS, and Google Cloud Platform, or deploy in a private cloud

Proven Results in 8-12 Weeks

Visit [BakerHughesC3.ai](https://www.bakerhughes.com/c3)