

Big Data Self-Service™



Zero Experience Needed

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The ZEN Architecture for Successful Big Data Self-Service™

Traditional full-stack big data software vendors deliver an overly complex selection of open source and proprietary components. Successful deployment and integration of these individual components is limited to organizations with access to highly sophisticated levels of engineering resources. In stark contrast, Galactic Exchange delivers a pre-integrated big data platform – a fully assembled product instead of a collection of software components.

Now any organization, regardless of size and available resources, can quickly and efficiently deploy small to large-scale Big Data projects without the need to assemble a data engineering army. From initial cluster set-up through data ingestion, data profiling

and application deployment – building Enterprise Class Big Data pipelines is now accessible by all businesses without a single line of code needing to be written.

Powered by Docker Containers and using software orchestration and embedded Artificial Intelligence and Deep Learning algorithms, Galactic Exchange's Zero-Experience-Needed (ZEN) Architecture turns big data clusters into Smart Data clusters – reducing deployment times and increasing project success rates by an order of magnitude or more.

Deploy it for FREE today.

Zero Experience Needed (ZEN) Architecture

ClusterGX™ Unbelievably Easy Cloud Managed Clusters

At the heart of the ZEN architecture is ClusterGX™, a Docker container powered big data clustering technology for Spark/Hadoop. Designed always with simplification in mind, ClusterGX™ can be deployed in minutes – on premise, or in the cloud - with zero experience needed.

A User-Name and Password – That's all you need

Simply download ClusterGX™ onto each node you want in your cluster and insert the provided registration credentials when prompted. That's it – in just a few minutes you have deployed a Docker virtualized cluster supporting current revisions of Spark, Kafka, Elasticsearch and Cassandra as well as a variety of other commonly used big data tools.

On-Premise, in the Cloud or Hybrid

ClusterGX™ can be deployed on-premise on Linux or bare-metal servers. It can also be deployed on Amazon AWS with less complexity and lower cost (how does FREE sound?) than Amazon's own EMR big data service. For convenience MacOS and Windows desktops are also supported for test environments. Azure, Google and other cloud platforms will be added in future.

ClusterGX™ uses a unique encrypted overlay VPN network to connect all containers in a virtual cluster. As a result it is possible to support geographically distributed hybrid clusters spread across both on-premise and AWS cloud compute nodes.

CloudManager – Browser based cluster management from anywhere

From any web browser simply navigate to the Galactic Exchange CloudManager portal and login with your account credentials. From that single login you can manage one or more clusters spread across multiple geographic locations, including on-premise and cloud provider platforms.

With our intuitive graphical user interface it is possible to deploy clusters on-premise or in the cloud and always have a common UI experience. Switch from on-premise to an AWS deployment and the UI is identical – no new learning curve required.

Share and Share Alike – Let your Data Scientists take control

Sharing access to the cluster and associated data subsets is as easy as clicking the "share" button within the cluster UI. Anyone inside or outside of the organization can be sent a link allowing them to access the intuitive CloudManager UI. ClusterGX™ spins up a virtual cluster sand-box environment allowing that user/department to upload applications and/or data and take advantage of the allowed cluster resources wherever they are located.

- ✦ Suitable for any business
- ✦ Reduce complexity, time and cost by 90%
- ✦ Zero Experience Needed
- ✦ Deploys in minutes

- ✦ Deploy On-Premise and on AWS
- ✦ Build a LAMBDA architecture fast
- ✦ Cloud based cluster management
- ✦ Easily share access to the cluster

DataEnchilada™ - Super Easy Data Ingestion

DataEnchilada™ solves the cluster data lake ingestion challenge by simplifying and automating the ingestion of various common on-premise and cloud based data sources. Using DataEnchilada™, a simple wizard driven set-up allows an administrator to input access credentials to data sources and the automated ingestion process of DataEnchilada™ takes over. Once data is ingested, it is made available for search and analysis by SQL and Spark-native queries.

Auto-Data Profiling Using Artificial Intelligence

As well as simplifying the process of ingesting data into Big Data clusters, DataEnchilada™ eliminates the manual workload associated with data classification and Kafka topic creation. Automated data profiling and topic creation rapidly accelerates the process of turning the cluster data lake into a useful file system.

The AppHub™ - An AppStore Inside Your Cluster

Once the cluster is deployed and data has been ingested, it is time to deploy applications and start analyzing data. Whilst any application can be installed and launched through standard manual processes, Galactic Exchange greatly simplifies this process through its integrated appstore capability called the AppHub™.

The AppHub™ provides direct access to thousands of both commercial and open source applications, all of which can be launched with a single click. Upon application launch, ClusterGX™ will also automatically deploy, configure and network with any associated software dependencies the application may need to run successfully.

Centralized Application Management – The Unified Command Center

The Unified Command Center (UCC) is a centralized portal within the ClusterGX™ UI where the native management console of every active application can easily be located and accessed.

Comprehensive Curated Open Source Repository for Docker Applications

Enterprises that allow direct access to public open source application repositories potentially expose themselves to security risks by allowing un-curated software into their environments. The AppHub™ contains thousands of open source applications for which Galactic Exchange mitigates the application risk in a variety of different ways. Every open-source application within the AppHub™ has been through virus, malware and security vulnerability checkers. An Enterprise can therefore be reassured that open source apps launched from the AppHub™ meet these basic security standards.

ClusterGX™ - Not Just For Big Data

The AppHub™ contains thousands of open source applications, many of which are not specifically designed for big data.

ClusterGX™ can run any Docker containerized application, be it big data centric or not. As such, it is the perfect tool to be used as a secure DevOps platform for micro-services and any other application which can run inside a Docker container.

Big Data Self-Service™

From cluster deployment through data ingestion and application launch, Galactic Exchange delivers a complete, integrated end-to-end big data platform. Data pipelines can be assembled with unprecedented speed, on-premise or in the cloud, to deliver the fastest possible ROI and with considerably reduced levels of engineering resource and cost. Galactic Exchange is delivering the next logical step in big data evolution, abstracting the underlying open source software complexity and allowing businesses to focus on what matters – their data.



Big Data Self-Service™ - Delivering Products, Not Product Components

- ✦ Simplifies data ingestion
- ✦ Automates data classification
- ✦ Integrates with Kafka
- ✦ Supports common data sources
- ✦ Embedded appstore in the cluster
- ✦ Simplifies app deployment
- ✦ Open source and commercial apps
- ✦ Thousands of curated open source apps



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