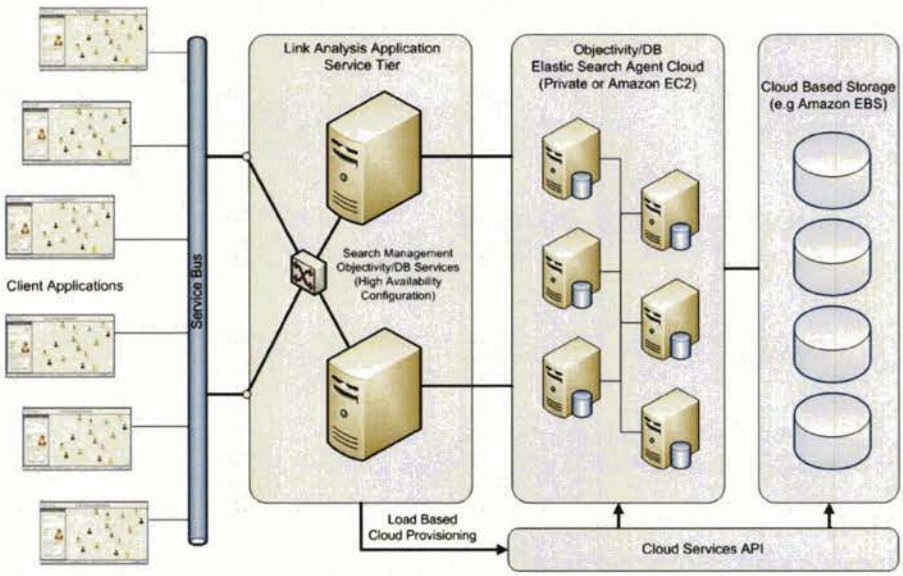
Exabyte Enable Your Palantir

The Palantir-Objectivity Integration

Objectivity, Inc. has partnered with Palantir Technologies to provide a Helper Application that provides groundbreaking scalability in link analysis systems built on Objectivity's distributed data and processing platform, Objectivity/DB.

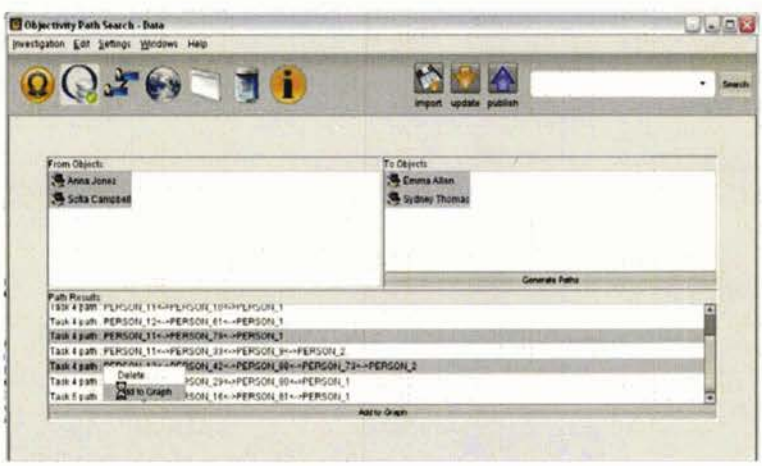


This diagram illustrates a sample cloud-based architecture for a link hunting application using Objectivity/DB and Palantir.

The companies are working to seamlessly integrate their products, empowering users to search for distant connections among hundreds of millions of paths calculated with sub-second response time, all from directly within the Palantir user interface. This integration further extends Palantir's capabilities to additional degrees of separation on increasingly massive data sets.

The companies recently worked together to demonstrate a link analysis application that can analyze millions of relationships within seconds on a standard laptop and can scale to hundreds of millions of relationships with minimal hardware.

By leveraging Palantir's extensibility and seamless interface with Objectivity/DB's flexible architecture, developers can build custom applications that can process massive amounts of data and scale as the need grows.



This screenshot shows how users will be able to leverage both Palantir and Objectivity/DB to find, track and analyze paths between millions of data points.

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Enabling Better Security and Intelligence

In today's security landscape, government agencies have more complex data to analyze from more sources than ever before. **Objectivity/DB** is already at work in applications that are central to government agencies involved in security and intelligence initiatives, including:

- Security analysis & cryptanalysis
- Social network analysis
- Knowledge and case management
- Mapping terrorist networks
- Geospatial data fusion
- COMINT, ELINT, HUMINT and SIGINT

Why you need Objectivity/DB

Data management challenges are more complicated than ever before, and today's software innovators are increasingly looking for industrial-strength products that allow them to build systems to manage massive volumes of complex data.

From the world's largest databases and real-time, distributed, multi-source data challenges to complex inter-related data fusion systems with demanding performance challenges, **Objectivity/DB** is becoming the standard for building data fusion applications in Government and Complex Manufacturing.

Systems based on **Objectivity/DB** meet and exceed high performance specifications that require systems to ingest, fuse, store, correlate and navigate immense volumes of data at extremely high ingest rates.

The Technology

Objectivity/DB is an object-oriented data platform that is compatible across multiple hardware platforms, operating systems, and languages. Current language support includes Java, C++, C#, Python, and Small-Talk. Write objects with Java and read with C++. Modify using C++ and read again using Python. Modify with Python and read again with Java.

No Database Server:
Objectivity/DB does not rely on a database server like many relational databases. Instead, it has a small application library linked into the application, a lock-server process and a page-server process. These are light-weight applications that manage locks and data pages for all of the Objectivity/DB applications accessing a federated database.

Object Relationships: **Objectivity/DB** relationships alleviate the need to perform joins to access-related data by allowing the creation of persisted "pointers" between objects that applications can then follow to retrieve related objects. This capability is considerably faster than using SQL joins.

Fully Distributed: **Objectivity/DB** supports many data models. Organizations can distribute applications and leave data on a centralized server, or distribute data across hundreds or thousands of computers and support centralized applications, or distribute the applications and the data. Developers can also use replication to move copies of data closer to their point-of-use.

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