

# Jump-Start the Enterprise Journey to the Cloud



According to
Gartner, "the cloud
is a technology
discontinuity that,
within the next 10
years, is likely to
dramatically change
IT organizational
missions, structures,
roles, skills and
operations. To put
it another way, the
cloud will change
IT as nothing before
it has."

# **Executive Summary**

In the pre-1880 era onsite power generation was the norm for factories. When the central power stations were built, these factories outsourced their power generation. Cloud infrastructure presents a similar opportunity for organizations wishing to outsource their IT infrastructure. *Cloud is to IT, as central power stations were to industries.* 

#### Cloud Adoption is inevitable.

This is evident from recent examples of diverse companies – Netflix, Intuit, and Juniper – moving almost 100% of their IT infrastructure into the cloud.

The key reasons for cloud adoption, contrary to common understanding, have been better performance, improved service delivery, improved agility, and easier administration. **Saving money was merely a by-product!** 

Data is at the core of a modern organization's competitive advantage, and CIOS are expected to enable their global workforce with agility, performance, tools, and analytics.

According to a 2014 survey of CIOs conducted by Gartner, cost savings account for only 14% of the reasons for organizations' use of the public cloud.



Gartner recommends enterprises "invest in private cloud not only to deliver a rapid return on investment, but also to enable sourcing model and architectural evolution over time."

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A typical enterprise has 3 types of data – production data, legacy data, and test data. This data is growing at an alarming rate, with material impacts on business performance. Data growth management is one of the top problems faced by Enterprise IT teams.

However, **60**%-**80**% **of this enterprise data is either inactive, static, or within legacy applications**. This provides enterprises an excellent opportunity to start their journey to the cloud with three simple steps:



Step 1: Migrate Legacy Applications into the Cloud

Experts estimate that up to 40% of applications are candidates for retirement. Migrating these legacy applications to the cloud can improve IT efficiency and reduce cost.



As for the fear factor of data security, Gartner Research says, "to date, there have been very few security breaches in the public cloud — most breaches continue to involve on-premises data center environments. Most cloud providers invest significantly in security technology and personnel and realize that their business would be at risk without doing so."

According to Gartner, data growth is the No. 1 infrastructure challenge for data centers.

#### Step 2: Use Cloud Infrastructure for Sandboxing and Testing

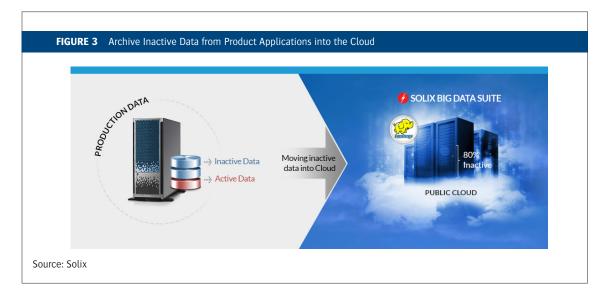
Leverage cloud infrastructure for sandboxing, application development, testing, and quality assurance. Application load peaks during testing and upgrades, then falls dramatically. Dynamic scaling capabilities of the cloud infrastructure provides an optimal way to manage peak loads without incurring huge capital expense for temporary infrastructure. Use data subsetting and data masking solutions to create secure subsets of production data that can be moved into the public/private cloud.



To support application testing and development, Gartner says, "adopt a bimodal IT sourcing strategy for cloud IaaS. Ensure that you meet the needs of developers and other technical end users who consume cloud IaaS, not just the needs of the infrastructure and operations organization."

# **Step 3: Archive Inactive Data from Production Applications before Moving them into the Cloud**

According to most analysts, about 80% of data within production applications is inactive. Archive this inactive data from production applications to improve their performance and user experience; move these 80% leaner applications into the cloud. Furthermore, use the cloud infrastructure to manage the archived data.



# Starting the Cloud Journey with the Solix Big Data Suite

The Solix Big Data Suite is a cloud-ready Enterprise Archiving platform built on Apache Hadoop. Solix is certified on Cloudera CDH and Hortonworks and provides an out-of-the-box solution to accelerate enterprise archiving in to the cloud.

Currently, Solix supports Amazon AWS and Microsoft Azure as public cloud providers, but the solution can be deployed on any other vendor's cloud infrastructure — Google, Rackspace, Dimension Data, etc.

The Solix Big Data Suite provides an extensive ILM framework to create a unified repository to capture all enterprise data and optimally organize it for analytics tools offered through the Solix App Store.

The suite is highly scalable, with an extensible connector framework to ingest all enterprise data. The integrated suite allows seamless archiving, retirement, and flexible extract transform load (ETL) capabilities to improve the speed of deployment, decrease the cost, and optimize infrastructure. Solix also supports on-premise and cloud-based deployment on a variety of Hadoop distributions.

The Solix Big Data Suite harnesses the capabilities of Hadoop to create a comprehensive and efficient platform that provides unified and cost-effective ILM and BI infrastructures for all data, requiring smaller teams with fewer IT skills, while allowing quicker rollouts and faster results.

The Solix Big Data Suite includes:

- Solix Enterprise Archiving to improve enterprise application performance and reduce infrastructure costs. Enterprise application data is first moved and then purged from its source location according to ILM policies to ensure governance, risk, and compliance objectives are met.
- The Solix Enterprise Data Lake reduces the complexity and processing burden of staging enterprise data warehouse (EDW) and analytics applications and provides highly efficient, low-cost bulk storage of enterprise data for later use when it is needed. The Solix Data Lake provides a copy of production data and stores it "as is" in bulk for later use.
- The Solix App Store offers preintegrated analytics tools for data within Enterprise Archiving and the Enterprise Data Lake.



Source: Solix

Recent Gartner research states that by 2017 enterprise archiving will represent 25% of the information governance efforts in enterprises. By 2016, 75% of enterprise archiving solutions will incorporate support for big data analytics.

Gartner analysts, Merv Adrian and Nick Heudecker, recommend CIOs "consider cloud deployment to minimize the cost of acquisition and operations (especially for test and development) and to support elastic scalability for unpredictable and infrequent use cases."

#### The Top Benefits of Using the Solix Big Data Suite for Archiving in the Cloud



#### 1. Application and Data Center Consolidation

The Solix Big Data Suite supports archiving of structured and unstructured data applications into a single scalable repository, consolidating all legacy applications and inactive data. Solix is built on an extensible platform that will continue to support current and future enterprise data sources.



#### 2. Support the Mobile Workforce

The Solix cloud platform seamlessly supports data access from any device, anywhere in the world, by any authorized user on any platform.



#### 3. Scale Up for Peak Performance

The Solix cloud platform provides dynamic scaling capabilities to support peak loads without any service deterioration. Additionally, archiving inactive data from production servers improves the performance of business applications.



#### 4. Data Security and Governance

Solix provides a comprehensive ILM Framework for Governance — Retention Management, eDiscovery, and Legal Hold.



#### 5. Analytics and Intelligence

Built on Apache Hadoop and Spark, Solix provides several integrations with BI and Analytics tools.



#### 6. Sandboxing and Testing

Solix provides a comprehensive suite of tools for sandboxing and testing, such as subsetting, data masking, and test data management.



#### 7. Lower the Total Cost of Ownership

With the cloud infrastructure organizations can eliminate data center overheads such as hardware, power, cooling, backups, disaster recovery, etc. This significantly decreases the Total Cost of Ownership (TCO)



#### 8. OPEX vs. CAPEX

With the cloud based model, enterprises can leverage subscription pricing — freeing up capital for other immediate business needs.

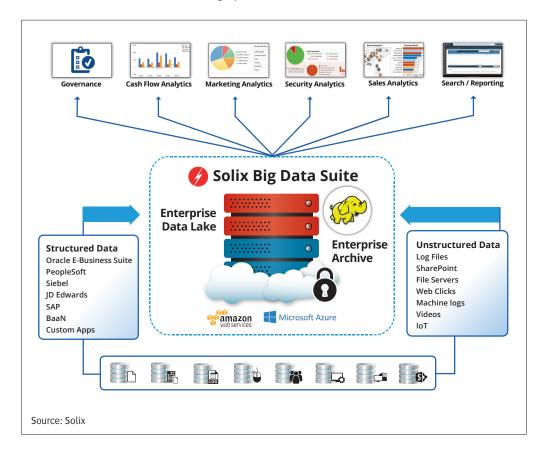
# Conclusion

Cloud services are already playing a major role in IT. If your company is not using them today, it will be tomorrow.

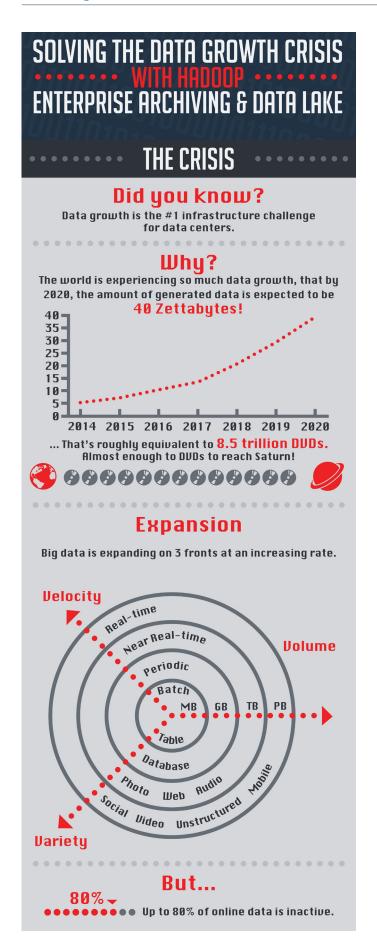
- Cloud adoption is inevitable
- 60%-80% of inactive enterprise data provides a low-risk, high-value asset to migrate to the Cloud
- Solix Big Data Suite is the perfect platform to kick start the enterprise journey in the cloud

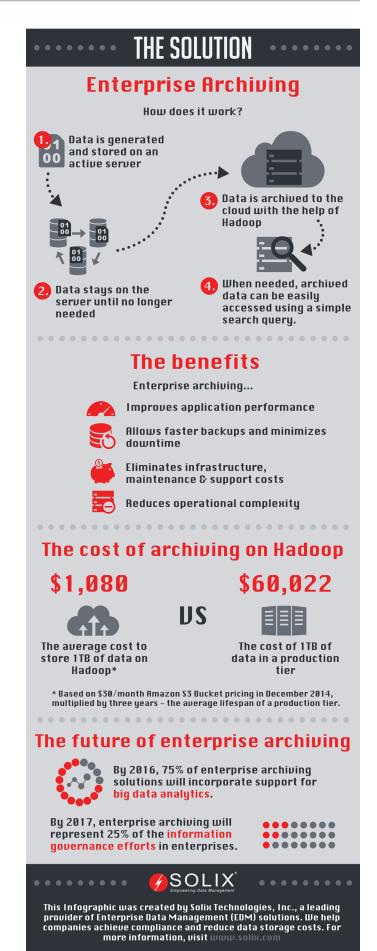


Our advice to the CIO is to explore enterprise archiving as the first step in this journey to the cloud. This first step gives IT organizations experience working with a cloud service provider, making the cloud service a natural extension of existing operations.



# Solving the Data Growth Crisis with Apache Hadoop





### **About Us**

Solix Technologies, Inc., the leading provider of Enterprise Data Management (EDM) solutions, is transforming information management with the first enterprise archiving and data lake application suite for big data: The Solix Big Data Suite. Solix is helping organizations learn more from their data with enterprise analytics and achieve Information Lifecycle Management (ILM) goals. The Solix Enterprise Data Management Suite (Solix EDMS) and Solix Enterprise Standard Edition (SE) enable organizations to improve application performance, meet compliance objectives and reduce the cost of data management across the enterprise. Solix Technologies, Inc. is headquartered in Santa Clara, California and operates worldwide through an established network of value added resellers (VARs) and systems integrators.



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