



Vol. 2, No. 1, January 2010

## Flagship Solutions Group eNewsletter

### Migrating To the Cloud

As more companies move their information technology services and applications off-site, 2010 is poised to be the year of the cloud.

Market-research firm IDC notes that cloud computing, which lets enterprises quickly ramp up computing power and only pay for what's used, delivers valuable benefits with very low startup costs.

It's these economic benefits that will make cloud computing a viable alternative to traditional models, according to IDC, which forecasts higher use of cloud computing "despite, and because of, the economic conditions."

This fresh look at data center design is being prompted by the surge in Internet data, from social networking to smartphone applications to sensors monitoring food shipments and electrical use. By 2011, IDC estimates, there will be one trillion Internet-connected devices, up from 500 million in 2006.

This all means that now is a good time to learn how IT services can be delivered through the cloud and how cloud computing can save your company money.

To learn more about how Flagship can help you migrate to the cloud, contact Flagship Solutions Group at **(561) 208-FYI1 (3941)** or visit [www.flagshipsg.com](http://www.flagshipsg.com).

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### Upcoming Events:



Join Flagship Solutions Group and Terremark for lunch on Thursday, January 28, 2010, from 11:45 AM to 2:00 PM. The subject is "How to migrate from a traditional data center to the cloud."

Cloud computing is a proven technology that leverages the Internet and Virtualization to provide the computing power you need to run your business. We'll discuss:

- How do you move from your traditional data center to the "Cloud"?
- What should you move first? Last?
- What about "Hybrid" solutions?

Our team of experts offers solutions and best practices that let you take advantage of the speed, flexibility, scalability and cost effectiveness of cloud services without investing in new infrastructure, new systems, or training new personnel.

Join us on January 28 for lunch, presentations, discussions and an optional tour of the Terremark facility. There is no cost to attend, but advance registration (at least 24 hours for a tour) is required. Register at [www.terremarkregistration.com/migrate](http://www.terremarkregistration.com/migrate).

**Location: Terremark NAP of the Americas**  
**50 NE 9<sup>th</sup> Street**  
**Miami, Florida 33132**

## Migrating To the Cloud Webinar:

If you cannot attend the event at Terremark on January 28<sup>th</sup>, be sure to attend our **Webinar on February 10, 2010 from 2:00 pm – 3:00 pm EST.**

There is no cost to attend, but seating is limited and advance registration is required. Register at: <http://www.eventbrite.com/event/550235770>

## Top 10 Worst Data Losses or Breaches

The beginning of the New Year seems like a good time to look back at what may have been the worst incidents ever in terms of data losses. As per SafeMedia Corp:

Rank	# of Records or People	Entity	Date of Incident or Report	Type of Incident
1	130,000,000	Heartland Payment Systems	1/20/2009	Hack, Malware
2	94,000,000	TJX, Inc.	1/17/2007	Hack, Malware
3	90,000,000 <sup>1</sup>	TRW/Sears Roebuck	6/22/1984	Hack
4	70,000,000 <sup>2</sup>	National Archives and Records Administration	10/01/2009	Incorrect Disposal
5	40,000,000	CardSystems Solutions	6/17/2005	Hack
6	30,000,000 <sup>3</sup>	Deutsche Telekom	11/1/2008	Exposure
7	26,500,000	U.S. Department of Veterans Affairs	5/22/2006	Stolen Laptop
8	25,000,000	HM Revenue and Customs / TNT	10/18/2007	Lost Tapes
9	18,000,000 <sup>4</sup>	Auction.co.kr	2/17/2008	Hack
9	18,000,000 <sup>5</sup>	National Personnel Records Center	7/12/1973	Fire
10	17,000,000	Countrywide Financial	8/1/2008	Insider
10	17,000,000	T-Mobile	10/6/2008	Lost or Stolen Disk

## Notes:

<sup>1</sup> TRW's database held credit information on 90,000,000 and was being accessed for over a year before the company became aware of the problem. The number of records actually accessed is unknown.

<sup>2</sup> NARA does not consider this a breach (.doc)

<sup>3</sup> The number of records actually accessed is unknown.

<sup>4</sup> Auction.co.kr said their number is 10.8 million and not 18 million as reported by other sources.

<sup>5</sup> This incident, involving the loss of paper records in a fire, affected many veterans who were unable to establish their right to receive benefits. Fifteen years later, duplicates of some of the records were located elsewhere and some veterans were first able to get benefits. I'm including it on my list because NPRC was warned about fire concerns during the building's design and planning stages, but did not implement sufficient precautions to protect the data.

**Flagship's P2P Navigator is the way to keep your organization and network healthy and secure, and will protect you against data breaches from botnets and P2P file sharing.** For more information about this revolutionary technology, contact Flagship Solutions Group at **(561) 208-FYI1 (3941)** or visit [www.flagshipsg.com](http://www.flagshipsg.com).

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## Citrix Unveils Cloud Computing Strategy and Product Line



Citrix announced its new Citrix Cloud Center™ (C3) product family. The Citrix C3 solution integrates "cloud proven" virtualization and networking products that power many of today's largest Internet and web service providers.

This unique combination lets next-generation cloud providers take advantage of the most widely-adopted virtual infrastructure platform for hosted cloud services, as well as the most proven infrastructure to deliver those services reliably and securely to both cloud consumers and enterprise datacenters.

The Citrix C3 solution is designed to give cloud providers a complete set of service delivery infrastructure building blocks for hosting, managing and delivering cloud-based computing services. Citrix C3 includes a reference architecture that combines the individual capabilities of several Citrix product lines to offer a powerful, dynamic, secure and highly available service-based infrastructure ideally suited to large-scale, on-demand delivery of both IT infrastructure and application services.

The Citrix Cloud Center (C3) product family is available today and includes Citrix XenServer Cloud Edition, Citrix NetScaler, Citrix WANScaler and the Citrix Workflow Studio Tech Preview.

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## IBM Takes To The Clouds



IBM has introduced some initial products and services and a roadmap for its stable of corporate and government customers to comfortably embrace cloud computing. IBM

Smart Business cloud solutions are workload optimized and provide a choice of delivery options:

### **IBM Smart Business Services**

IBM offers standardized services on the IBM cloud or private cloud services, built behind your firewall. They are designed to improve quality and reduce costs in a more efficient test environment. You can have "Anytime, anywhere" access to applications and resources behind your firewall or on the IBM Cloud.

### **IBM Smart Business Systems**

Workload-optimized, integrated systems deliver higher service levels at reduced cost. Jumpstart or grow your private cloud environment with CloudBurst™, IBM's comprehensive cloud delivery platform that includes IBM hardware, software, and services. Plus, ready-to-use analytics solutions quickly deliver business insights.

### **Cloud Consulting Services**

Working with IBM, we can help you develop a cloud IT strategy, realize cost savings and benefits of cloud adoption.

For more information about any of these IBM Cloud Computing solutions, contact Flagship Solutions Group at **(561) 208-FY11 (3941)** or visit [www.flagshipsg.com](http://www.flagshipsg.com).

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## **Early Experiments in Cloud Computing**

By Galen Gruman / Infoworld

Nasdaq and The New York Times are early adapters of cloud computing. Both have tapped into Amazon.com's Internet-provisioned [computing and storage services](#) -- Elastic Compute Cloud (EC2) and Simple Storage Service (S3) -- to augment their own IT resources.

Nasdaq has a great deal of stock and fund data, and it wanted to make extra revenue selling historic data for those stocks and funds. But for this offering, the company didn't want to worry about optimizing its databases and servers to handle the new load.

Nasdaq took its market data and created flat files for every entity, each holding enough data for a 10-minute replay of the stock's or fund's price changes, on a second-by-second basis. Their app pulls in the flat files stored at Amazon.com and then creates the replay animations from them. The result is they don't need a database constantly staging data on the server side.

The New York Times also used S3 for a data-intensive project: converting 11 million articles published from the newspaper's founding in 1851 through 1989, to make them available through its web site search engine. The Times scanned in the stories, cut up into columns to fit in the scanners (as TIFF files), then uploaded those to S3 — taking 4TB of space — over several WAN head connections from the Times' datacenter.

Then, using Amazon.com's EC2 computing platform, the Times ran a PDF conversion app that converted that 4TB of TIFF data into 1.5TB of PDF files. Using 100 Linux computers, the job took about 24 hours.

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