

## INTEGRATING TECHNOLOGY, DRIVING GROWTH

## TechTalk



Issue No. 80 , February 2019



## FOCUS EVENT

## “vSAN & vCloud Management for Data Center Modernization” – 17th Jan 2019 | Mumbai

GALAXY & VMware conducted a knowledge event on 17th January, at Grand Hyatt Mumbai, demonstrating VMware's approach to a modern Data Center.

The approach is based on a software-defined hyper-converged architecture across compute, storage, network and security, with common management across all.

The speakers presented how this architecture enables an enterprise-ready, high-performance infrastructure. It's more flexible, because it's hardware-independent; more agile because it's highly programmable; and more cost effective because it's scalable and based on commodity hardware. The Galaxy team presented its capabilities to build & manage Hybrid Cloud infrastructure based on VMware solutions for its clients.

The event was well received by Information Technology leaders from 26+ companies across multiple industry verticals.

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vSAN &amp; vCloud Management

CSO EXCHANGE

## M.D Speaks



“Dear Readers,

Last year, we finally saw significant adoption of AI (artificial intelligence) based solutions. The main reason for this has been the ease and convenience that was brought into its implementation and use. Though AI based chatbots & advertisements were the most popular, other solutions like diagnostics or healthcare providers and AI assisted cyber security products and robotic process automation have seen their share increase. In case, a Gartner survey that was conducted to help Chief Information Officers (CIOs) and other IT leaders to set management agendas for 2019 showed that organizations across all industries use AI in a variety of applications. This would mean even more widespread penetration of AI solutions in the current year creating a lot of demand for skilled resources to design and implement these solutions.

At Galaxy, we have invested in building expertise on AI based robotic process automation solutions. This we believe will be an integral part of speeding up the digital transformation for any enterprise. Please reach out to us to understand how these solutions can help you.

Happy reading

Anoop Pai Dhungat  
Chairman & Managing Director

# THE FUTURE IS NOW

## SERVERLESS COMPUTING



Serverless computing is a type of cloud computing where the customer does not have to provision servers for the back-end code to run on, but accesses services as they are needed. Instead, the cloud provider starts and stops a container platform as a service as requests come in and the provider bills accordingly.

Serverless computing is an approach to cloud computing where the customer simply makes requests of a container platform as a service (PaaS) and the provider starts and stops the PaaS as needed. The customer is freed from the need to rent, buy and configure servers beforehand. Serverless offerings include AWS Lambda and OpenWhisk.

The term is somewhat of a misnomer, as servers still run behind the scenes, but from the customer's point of view, they simply make requests, similar to going through an API. The concept is a logical outgrowth of the philosophy that cloud customers should pay for only what they need. Serverless computing appeals to customers who do not want to spend time or money provisioning servers. The disadvantage of the approach is that customers may experience latency, resource limits or performance problems.

## WHAT IS RAY TRACING?



Recently a demo from Epic, the makers of the Unreal game engine, raised eyebrows for its photo-realistic lighting effects. The technique is a big step forward for ray tracing. But what does that mean?

### What Ray Tracing Does

Put simply, ray tracing is a method that a graphics engine uses to calculate how virtual light sources affect the items within their environment. The program literally traces the rays of light, using calculations developed by physicists who study the way real light behaves.

Graphics engines like Unreal or Unity use ray tracing to render realistic lighting effects—shadows, reflections, and occlusions—without needing to render them as their own individual objects. Though it's fairly intensive from a processing standpoint, using it to render only what the camera (i.e. the player) needs to see at any given moment means it can be more efficient than other, older methods of simulating realistic light in virtual environments. The specific lighting effects are rendered on a single two-dimensional plane at the viewer's perspective, not constantly all throughout the environment.

This is all achieved with some stupendously complex math, both in terms of actually determining the way the virtual light behaves and how much of these effects are visible to the viewer or player at any given time. Developers can use less complex versions of the same techniques to account for less powerful hardware or more fast-paced, smooth gameplay.

Reference : [www.howtogeek.com/346949/what-is-ray-tracing/](http://www.howtogeek.com/346949/what-is-ray-tracing/)

# TECHNOLOGY FOCUS

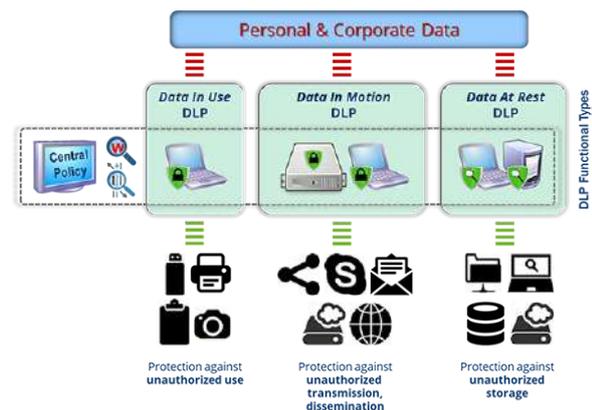
## DATA LOSS PREVENTION

**D**ata loss prevention (DLP) is a strategy for making sure that end users do not send sensitive or critical information outside the corporate network. The term is also used to describe software product that helps a network administrator control what data end users can transfer.

DLP software products use business rules to classify and protect confidential and critical information so that unauthorized end users cannot accidentally or maliciously share data whose disclosure could put the organization at risk. For example, if an employee tried to forward a business email outside the corporate domain or upload a corporate file to a consumer cloud storage service like Dropbox, the employee would be denied permission.

DLP products may also be referred to as data leak prevention, information loss prevention or extrusion prevention products.

DLP technology provides IT and security staff with a 360-degree view of the location, flow and usage of data across the enterprise. It checks network actions against your organization's security policies and allows you to protect and control sensitive data, including customer information, personally identifiable information (PII), financial data and intellectual property. With a thorough understanding of this data, your organization can set appropriate policies to protect it and make risk-prioritized decisions about what assets need to be protected and at what cost.



## Data Loss Prevention - Continued from page 2...

Not all data loss is the result of external, malicious attacks. The inadvertent disclosure or mishandling of confidential data by internal employees is a significant factor. According to Verizon's 2018 Data Breach Investigations Report, 28 percent of attacks involved insiders. The insider threat can be particularly difficult to guard against—it's hard to spot, if someone is using their legitimate access to data for nefarious purposes. DLP can detect files that contain confidential information and prevent them from leaving via the network. It can block sensitive data transfers to Universal Serial Bus (USB) drives and other removable media and offers the ability to apply policies that safeguard data on a case-by-case basis.

DLP technology offers 360-degree monitoring that includes email (both corporate accounts and webmail), instant messages, keystrokes typed, documents accessed, and applications used. It also allows you to capture and archive evidence of incidents for forensic analysis. With DLP, you can limit and filter Web surfing, and control which applications employees can access. It is an invaluable tool in the effort to stop dangerous or time-wasting activities and helps to detect problems before they can damage your business.

DLP technology monitors all endpoint activity, on the corporate network or off. It can block emails or attachments containing confidential data, enforce policies on the transfer of data to removable media devices such as USB thumb drives, and even prevent activities such as printing, copying and pasting. DLP offers complete data visibility and control, ensuring that employees, third-party vendors, contractors and partners are prevented from leaking your data—intentionally or inadvertently.

## SPECIAL FOCUS

### CISCO SERVES UP FLEXIBLE DATA CENTRE OPTIONS

Cisco is significantly spreading its data-centre technology to help customers grow and control hybrid, multi-cloud or hyper-converged edge environments.

In a series of announcements at its Cisco Live! customer gathering in Barcelona, the tech giant sought to expand its data centre-influence by extending its Application Centric Infrastructure (ACI) to the cloud, extending its hyper-converged HyperFlex offering to the edge and bolstering the management capabilities of its CloudCenter offering.

### ACI Anywhere

ACI is Cisco's software-defined networking (SDN) data centre package, but it also delivers the company's Intent-Based Networking technology, which brings customers the ability to automatically implement network and policy changes on the fly and ensure data delivery.

Cisco has now extended ACI with ACI Anywhere to the cloud – specifically Amazon Web Services and Microsoft Azure environments.

### HyperFlex for Branch

Also extending its data-centre control planes is a new release of Cisco's Hyperflex package which is the company's converged infrastructure that offers computing, networking and storage resources in a single data-centre system.

Cisco has added HyperFlex for Branch or Hyperflex 4.0, which will let customers extend the system to branch offices or the edge of a customer network.

### Cisco CloudCenter upgrade

Also announced this week was an upgrade to Cisco's CloudCenter multi-cloud management suite. Cisco said the new CloudCenter Suite includes full application lifecycle management and greater workflow automation.

The package also helps customers optimise cloud-workload costs more easily.

Reference : "<https://www.arnnet.com.au/article/656851/cisco-serves-up-flexible-data-center-options/>"



## TECH NEWS

### ORACLE IS PREPARING TO LAUNCH ITS FIRST DATA CENTER IN INDIA

Oracle will be taking on major Cloud players like Amazon Web Services (AWS), Google Cloud Platform (GCP) and Microsoft Azure who already have a significant presence in the country.

Buoyed by the high demand in the Banking, Financial Services and Insurance (BFSI), telecom and manufacturing sectors in India, Cloud major Oracle is set to launch its first-ever data center in India later this year, a top global executive told IANS on Monday.



The data center, in all probability to come up in Mumbai, will help Oracle take on major Cloud players like Amazon Web Services (AWS), Google Cloud Platform (GCP) and Microsoft Azure who already have a significant presence in the country.

**Tech News - Continued from page 3...**

"We see huge prospects for India which is currently the sixth biggest country in the world for us in terms of revenue standpoint. That is why we are building up a data center for the Cloud here. I am sure that is just the first of the many data centers coming as our business grows," Andrew Mendelsohn, Executive Vice President, Oracle Database, told IANS during an interaction.

To begin with, the data center will take care of Platform-as-a-Service (PaaS) and Infrastructure-as-a-Service (IaaS) workloads, while testing for Software-as-a-Service (SaaS) on the Oracle Cloud Infrastructure (OCI) is still going on, along with other modalities before it is opened for the market.

"We have many customers and partners who want to run their business applications on our Gen 2 Cloud. Oracle will open additional regions in a number of countries, including India, to support our customers and fast-growing cloud business in the country," Kumar added.

Oracle, that has been a leader in the space of database technology for years, is now offering the world's first "Autonomous Database" -- a "self-driving" software that uses Machine Learning (ML) to enable unprecedented availability, high performance and security at a much lower cost.

According to Kumar, Indian customers -- both existing and new ones -- are fast embracing and upgrading to "Autonomous Database". "These early adopters represent a mix of large enterprises, mid-size firms and born-in-the-Cloud start-ups, hailing from diverse industries -- from banking to footwear, spices to digital commerce and consulting to IT services," Kumar informed.

Reference: "<https://www.news18.com/news/tech/oracle-is-preparing-to-launch-its-first-data-center-in-india-2009763.html>"

# CSO EXCHANGE

**CSO EXCHANGE – Knowledge event focusing on ‘Data Protection with GDPR compliance’ hosted by IDG in association with DELL-EMC and Galaxy – 24th Jan 2019 | Mumbai**



It was a full house at the Annual CISO event hosted by IDG (International Data Group) in partnership with Dell EMC & Galaxy Office Automation Pvt. Ltd.

Yogesh Gupta from IDG initiated discussions on GDPR compliance in India, followed up with insights in the keynote session by Jignesh Oza from KPMG India

Ripu Daman Singh Bajwa from DELL-EMC & Pratap Vichare from Galaxy presented the challenges & solutions for implementing GDPR compliant Data Protection for Indian multinational companies.

Attended by 45+ CISOs & Heads of Information Security, the evening ended with a Gala Dinner, Cocktails & Networking.

# ABOUT GALAXY

Galaxy Office Automation Pvt. Ltd. helps customers grow their businesses by integrating best-in-class IT solutions, products and services. Our objective is to understand customers' businesses, analyse their issues and address them through our subject matter experts. We have over three decades of experience in integrating technology solutions across industries, the ability to transact across various geographies and over 250 professionals certified in different technologies. This puts us in the best position to design and implement IT infrastructure solutions that deliver cost-effective, agile, and scalable solutions to meet customers' business and technology needs.

- ▶ PAN-India presence with 9 offices across 8 cities in India and 1 in Singapore
- ▶ 250+ Highly skilled professionals
- ▶ ISO 9001: 2015, 27001: 2013 & 9001: 2013 certified
- ▶ 279 Crores i.e. \$40 million revenues in FY 2017-18
- ▶ Consistently profitable since inception
- ▶ Wide range of solutions and professional services across areas such as Data Center, Enterprise Mobility, Networking, Cyber Security, Internet of Things, End Points, Robotic Process Automation & Support Services
- ▶ Proven track record across enterprises as well as mid-market customers in verticals such as BFSI, Manufacturing, Automobile, Healthcare and IT/ITeS