
We are excited to announce that Galaxy has been honoured with the prestigious award **“Innovator of the Year”** in APJ Region at DTW 2023, presented by Dell Technologies. This accolade recognizes our relentless efforts to drive innovation and bring cutting-edge solutions to our customers.

This award serves as a reminder that we will continue striving for excellence in everything we do and delivering exceptional value to the market. Here's to many more years of innovation and growth together!



MD SPEAKS

Anoop Pai Dhungat
Chairman & Managing Director

Dear Readers,

I am pleased to inform all of you that last month we have augmented our seating capacity by adding another office in the same building as our head office. Thanks to all of you, we have grown to a level where our existing offices were just not enough to seat all our talent and so needed the extra space. It is our commitment that we will take all that it needs to keep all our stakeholders delighted with our services all the time.

A lot of you have asked me about Application Modernisation and whether it would help and if so how. Application modernization is the practice of updating older software for newer computing approaches, including newer languages, frameworks and infrastructure platforms. Most times this is mandated because some hardware or software component of the platform has gone out of support. However, any business critical application should be evaluated at least once every couple of years, to explore how the state of the art approaches and technologies could make that application better and whether the costs of modernisation would be justified by the benefits. With the proliferation of the cloud and SaaS offerings, this has become even more relevant, because legacy approaches had not considered this. Applications developed for on-premise computing are not equipped to easily integrate with other application or scale vertical or horizontally depending on usage. Yet, I see many organisation using the same applications on the cloud by doing a lift and shift migration. The main reason for this is the “if it ain't broke, don't fix it” attitude. While things may work, they don't realise the opportunities they miss out.

Application modernization doesn't have to be a daunting journey. We, at Galaxy, are here to help you overcome the challenges.

Our team of experts specializes in low-code, cloud-native development, DevOps automation and database optimization, allowing you to accelerate digital transformation with confidence. Do reach out to our experts for any help or assistance.

Happy Reading

Anoop Dhungat



Developing sustainable fuel from 'thin air'

Two UK researchers, who are alumni of the Indian Institute of Technology (IIT), have developed a new method to transform carbon dioxide (CO₂) captured from industrial processes -- or even directly from the air -- to clean, sustainable fuels, using just the energy from the sun.

The researchers currently working at the Department of Chemistry in the University of Cambridge, UK, developed a solar-powered reactor that converts captured CO₂ and plastic waste into sustainable fuels and other valuable chemical products.

In tests, CO₂ was converted into syngas -- a key building block for sustainable liquid fuels --, and plastic bottles were converted into glycolic acid, which is widely used in the cosmetics industry.

Although improvements are needed before this technology can be used at an industrial scale, the study, reported in the journal *Joule*, represents another important step toward the production of clean fuels to power the economy, without the need for environmentally destructive oil and gas extraction.

"This solar-powered system takes two harmful waste products -- plastic and carbon emissions -- and converts them into something truly useful," said Dr. Sayan Kar, an alumnus of IIT Kanpur.

"The fact that we can effectively take CO₂ from air and make something useful from it is special. It's satisfying to see that we can actually do it using only sunlight," Kar said.

The researchers adapted their solar-driven technology so that it works with flue gas or directly from the air, converting CO₂ and plastics into fuel and chemicals using only the power of the sun.

"The plastic component is an important trick to this system," said Dr. Motiar Rahaman, an alumnus of IIT Madras. "Capturing and using CO₂ from the air makes the chemistry more difficult. But, if we add plastic waste to the system, the plastic donates electrons to the CO₂. The plastic breaks down to glycolic acid, which is widely used in the cosmetics industry, and the CO₂ is converted into syngas, which is a simple fuel," he added.

The scientists are currently working on a bench-top demonstrator device with improved efficiency and practicality to highlight the benefits of coupling direct air capture with CO₂ utilisation as a path to a zero-carbon future.



What Is Hyperconverged Infrastructure?

Hyperconverged infrastructure (HCI) combines compute, virtualization, storage, and networking in a single cluster. Starting with as few as three nodes, users can easily scale out to match computing and storage resource needs. Hyperconvergence brings cloudlike simplicity on-premises and within a single, easily managed platform.

What challenges will hyperconvergence solve?

Digital transformation is key to business success, and with it the need to support big data, artificial intelligence (AI), and the hybrid cloud while also meeting the fast-growing demands of traditional workloads.

Current IT infrastructure weighs data centers down with sluggish arrays of hard-to-manage components, preventing them from keeping up with the quick-turnaround demands of business and the cloud.

By centralizing resources and management, HCI lowers costs, reduces complexity, and alleviates staff burdens while raising performance.

Converged versus hyperconverged: What's the difference?

Converged and hyperconverged systems both aim to simplify data center management. Converged infrastructure has the same components, but they're discrete, separable, and cumbersome to manage compared with HCI. Hyperconverged infrastructure fully integrates all components and is software defined.

In essence, HCI is designed to work as one system with software-managed storage, as opposed to converged solutions and their separate components.

What is the hyperconvergence advantage?

HCI delivers deeper abstraction and higher automation and scalability than converged infrastructure. HCI simplifies administration by providing a single point of management.

HCI fully integrates with your entire data center, eliminating the need for separate servers and network

storage and delivering on-demand infrastructure for data-centric workloads.

How can I benefit from hyperconverged infrastructure?

IT is continually tasked to do more with fewer resources. In addition to taking care of existing IT infrastructure, it must drive new initiatives such as AI, machine learning (ML), and big data.

For large and small organizations, hyperconvergence's centralized management, scalable architecture, and cloudlike simplicity deliver multiple benefits.

Benefits of hyperconverged infrastructure

► Lower costs

Integrating components into one platform reduces storage footprint, power use, maintenance costs, and TCO. Hyperconverged systems eliminate the need to overprovision to accommodate growth and help enable data centers to scale in small, easily managed steps.

► Simplicity and agility

Hyperconverged systems can deploy in a fraction of the time of traditional IT infrastructure. And there's no need for IT specialists for each resource area. Plus, automation makes management simple, giving staff and administrators more time to focus on strategic initiatives.

► Performance

Hyperconvergence helps organizations deploy any workload and enjoy high levels of performance. Many organizations use hyperconverged solutions for the most intensive workloads, including enterprise apps and SQL Server.

► Flexible scaling

Hyperconverged infrastructure scales easily. Additional resources can be added by simply connecting a new node to the cluster. Plus, with some hyperconverged systems you can scale compute and storage separately. New resources are automatically identified and integrated into the cluster.

► Multicloud support

Hyperconvergence dramatically simplifies hybrid cloud environments and reduces the time and cost of transitioning to a hybrid cloud. It also makes it easy to move data and applications back and forth between on-premises servers and the public cloud.

► Security and data protection

On-premises IT infrastructure is more secure than other options. Security is baked into hyperconverged systems, with features including self-encrypting drives and tools that provide high levels of visibility. Backup and disaster recovery are also built in.

What should I look for in a hyperconverged solution?

To tackle your toughest challenges, you need a solution that delivers:

Support and performance for any application

The right HCI solution must support a wide set of application deployment models. To run your mission-critical apps, it needs to be fast and consistent, which demands low latency and low IOPS variability.

Integration with any cloud

As multicloud environments become more common, your solution must provide the flexibility to support multiple hypervisors and deploy applications in whichever cloud environment is most appropriate for them.

Scalability

The right solution will support your IT needs today and adapt as those needs evolve, providing the simplicity and flexibility to handle any workload and use case.



Hyperconverged Infrastructure

<https://tinyurl.com/bde8kx4t>

Experience Commvault's Groundbreaking Data Protection and Security Capabilities

Commvault is a global leader in cloud data protection. Its industry-leading platform redefines the next generation of data protection as the only solution with comprehensive data protection, proactive data defense, advanced ransomware protection, and a single view across all your data.

This lets you secure, defend, and recover your data, applications, and production workloads – on-premises, in the cloud, over SaaS, or spread across hybrid and multi-cloud environments.

The result is early warning of attacks, active defense to reduce the impact of intrusion, and rapid, accurate recovery of your data. Simply put, Commvault is data, protected. For over 25 years, more than 100,000 organizations have relied on Commvault to keep their data secure and ready to drive business growth.

In a landscape increasingly threatened by ransomware attacks, it is imperative for IT and security professionals to shield and secure their backup infrastructure from malicious attacks.

For starters, Commvault's cutting edge Threat Scan offering provides proactive threat detection aimed at

ensuring the cleanliness, safety, and recoverability of backup data. Not only is it designed to thwart reinfections during recovery, but also to isolate threats for analysis and empowers users to promptly retrieve trusted copies of their data.

Next, Commvault has also strengthened its integration with Microsoft Sentinel and Palo Alto XSOAR to accelerate incident response times and refine its orchestration through seamless automation and holistic insights. These integrations are critical as IT and security responsibilities continue to blur.

Commvault is also offering SaaS customers a unique, unified vantage point. Commvault Cloud Command, a single, user-friendly interface, empowers users with real-time insights, cohesive dashboards, and actionable insights to quickly and effectively respond to threats.

Lastly, the company enhanced its integration with Dell PowerProtect DD, which enables joint customers to use Dell's native compression, deduplication, and replication processes to streamline data management operations and optimize their overall efficiency.

Galaxy as an IT Solutions Provider strives to maintain and help the end customers to enhance their security compliance with Commvault.

To talk to our experts, email us at

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Datametica launches enhanced Pelican with advanced features and tiered pricing

The new Pelican is an enterprise-ready tool with enhanced capabilities and AI automation approaches that advance data validation functions, all with simple deployment options at a low cost.

As data management and cloud migration take center stage in the digital transformation journey of businesses, CIOs are constantly seeking cutting-edge solutions to enhance data validation processes.

Datametica's recent announcement about the launch of an upgraded version of their data validation technology, Pelican, holds relevance for CIOs.

Pelican has been simplifying data validation processes for years. With game-changing capabilities, AI automation, and a user-friendly deployment model, the new Pelican is poised to revolutionize data validation, making it an indispensable tool for organizations striving to optimize their data management strategies.

The new Pelican has two modes of data validation: Litmus and Full mode. The enhanced Full mode of Pelican brings out all the mismatched cells in your data pipeline in a single iteration.

Some of the new features that further automate the data validation process are AI-powered automated data validation & reconciliation, lineage powered triaging, built-in encryption and security features, validation suite, built-in reporting suite, CI/CD pipeline integration, role-based access management, enterprise-ready tool, parallel data validation, zero coding requirement, validation without data movement.

<https://tinyurl.com/yyjxt3fc>

Google may make it easier to switch from iPhone to Android

While there are more than a billion activated iPhones in the world, there are users who may want to switch to the world of Android for a variety of reasons. Moving from one major platform to another is rather tricky as one has to keep in mind how to transfer all the data without losing anything.

Users often don't switch because of all the hassle it might bring. Google, however, is now working on making it easier for iPhone users who want to switch to Android.

According to a report by 9to5Google, Google has a new app — still in the works — that is simply called "Switch to Android". The app, however, is still 'unlisted' on the Apple App Store. The report explains that the app has been soft-launched, which means it is not accessible to everyone yet and is an 'unlisted' app.

According to 9to5Google, its APK Insight team could "successfully install Switch to Android on an iPhone, and run it." The app, as per the report, will tell you what all it will copy — photos, videos, contacts — from the iPhone to an Android phone. The next step will be to scan a QR code that will appear on your Android phone, which will create a hotspot to connect to the iPhone.

The data will then start getting copied and once it's done users will be reminded to disable iMessage. The last step, according to the report, is to transfer all the iCloud data into Google Drive.

All this does sound quite simple and easy to do. The report, however, says that while things look ready on iPS, "Android's setup and restore process is not yet prepared for the Switch to Android app's availability."

<https://tinyurl.com/bdnknz76>

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