

TechTalk



GALAXY OFFICE AUTOMATION PVT. LTD.

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Shoutout to all the Mac Users!

We have arranged for 2 useful trainings on macOS.



macOS Training Workshops



macOS End Users Workshop

15th March 2021

Webex Session 1

Time: **10:00am till 12:00pm**
Duration: **2 Hours**

- Introduction to macOS • Mac Basics
- Organizing your stuff • Customize your Mac
- Built-in apps • Privacy and Security Features
- What makes a Mac a Mac
- Keyboard Shortcuts • Q&A

Webex Session 2

Time: **3pm till 5pm**
Duration: **2 Hours**

- Say Hello to All-Day Productivity • Preview
- Safari • Mail, Calendar and Contacts
- iMessages • Pages • Numbers • Keynote
- Overview - Creativity tools • Q&A

Audience: **Any user who is using Mac in the organization**
Mac: **Mandatory**

macOS Technical Workshop

17th March 2021

Session 1:
10:00am till 01:00pm

- What's new in macOS Big Sur
- Installation and Configuration
- User Migration • File System and storage
- System Resources • Keychain Access
- Security and Privacy

Session 2:
02:00pm till 05.00pm

- Hidden items & Shortcuts
- Apps - Install & Troubleshoot
- Use Apple Diagnostics to test your Mac
- Support - Macs with M1 Chip

Who should attend: Technical professionals who support Mac users.



MD SPEAKS

Anoop Pai Dhungat
Chairman & MD

Dear Readers,

This month will mark one year of lockdown and even now there are many restrictions in place - especially for the travel and entertainment sectors. The vaccination program in India has gotten off to a flying start and I am very hopeful that things will turn around really soon. It has been very heartening to see technology play a big role in registering for vaccinations and tracking the vaccinated for the second dose. Needless to say, we still have to exercise adequate caution till we reach herd immunity and there are no further threats.

We have learnt a lot in the last year. We now know that physical office space will never be a constraint to growth. We now know that remote workers need not be restricted to computer programmers and the back office staff. Over the past year, we have fine tuned all the processes so that they work smoothly and almost as efficiently with remote workers as they did with on-site workers. We have enabled a lot of our clients to put in place productivity tools to ensure that there is no slacking or loss of efficiency by moving workloads to remote workers. We can offer you a wide range of Work From Anywhere Tools which will help you leverage the advantages of remote working to not only save a lot on costs but also enable a better quality of life for your valuable employees. These tools cover remote desktops, remote workstations, GPU virtualization solutions, employee productivity solutions, desk booking solutions, endpoint backups as a service, endpoint devices, remote working kits and a lot more. Please reach out us to see how we can help you save costs while maintaining efficiencies.

Happy reading

15th March 2021 - For End User Training, Register Now: <https://bit.ly/3c4DbWU>

17th March 2021 - For Technical Training, Register Now: <https://bit.ly/3ezhX6F>



Future Is Now

Three Tire-Centric Vehicle Innovations

The future of mobility includes more than the worldwide movement toward electric vehicles, self-driving cars and alternative fuel. CES® 2021 exhibitor Bridgestone explores how innovative tire-centric solutions can add value for drivers and passengers and address pain points.

Learn more about three of Bridgestone's initiatives and how they are leading consumers to a sustainable, safe and accessible future of mobility.

Air-Free Concept Tires

Conventional tires are inflated with high-pressure air to support the weight of a vehicle and absorb shock. Flat tires or a change in tire pressure can lead to difficulties and safety concerns with driving.

Bridgestone's airless tires eliminate the need to worry about flat tires. The air-free concept technology uses a unique spoke structure along the inner sides of tires to support the weight of the vehicle.

The new concept not only requires less maintenance and prevents tire punctures, but it also provides more design flexibility and is more recyclable than conventional tires.

Run-Flat Tire Technology

Specifically designed to allow drivers to safely continue for up to 50 miles at 50 mph after a puncture or flat tire, Bridgestone's run-flat tires enable a safer driving

experience and eliminates the need for spare tires and wheels.

Reinforced sidewall supports along the run-flat tires help support the weight of a vehicle even with a flat tire. Using NanoPro-Tech engineering, the sidewalls are designed on a molecular level to resist heat buildup and maintain shape even under pressure.

PlusStop Barrier-Less Bus Stop Curb

The gap between bus-boarding entrances and a sidewalk curb can often create difficulties for young children, senior citizens, parents with strollers and those with mobility needs.

For drivers, the fear of damaging tire sidewalls through contact with a curb can result in them refraining from stopping buses too close to curbs.

Looking to address this issue, Bridgestone partnered with other organizations to develop and introduce PlusStop, a barrier-less curb solution. Sloped road shoulders, grooved projections, rounded curb bases and more in the full curb system help eliminate tire-to-curb contact while informing drivers of when they have successfully approached the curb without a gap.

Bridgestone's tire development data insights have helped the company and its partners develop the system, which has been installed at bus stops throughout Japan, including for locations meant for Olympic and Paralympic athletes.





Technology Focus

The Future is Cloud: 3 Reasons Driving Enterprise Migration to Cloud

As the world evolves to deal with the changes fraught by the COVID-19 pandemic, the existing business operating models –from supply chains to distribution –are being redesigned to attain new levels of resilience, agility, productivity, and secure end-user reach.

Underpinning this transition is cloud technology that has become the key enabler in reshaping the business ecosystem. This is even more so in the recent years as it has evolved rapidly, becoming more reliable, scalable, and flexible over the past few years.

While cloud-based solutions were already in play, pandemic-induced acceleration in adoption has brought over the fence sitters and the slow adopters. In fact, Forrester Research expects the global cloud computing market size to grow from USD 371.4 billion in 2020 to USD 832.1 billion by 2025, with the global public cloud infrastructure market estimated to grow by 35% to USD 120 billion in 2021.

Migrating critical services from on-premises and collocated hardware to cloud enables organizations to manage their IT infrastructure remotely without having to deal with the challenges of security, hardware procurement, and software updates. These issues are common when enterprises operate from their own data centers.

Let's take a look at the three vital reasons that are driving the migration to cloud:

I. Reduction in costs: By moving to the cloud, organizations can reduce operational costs while improving their IT processes. This includes rationalization across costs linked to logistics, facilities, procurements, as well as other issues cropping up due to unprecedented crisis situations, such as the ongoing pandemic. Moreover, one pays for what one uses on the cloud, thus doing away with the need to maintain costly datacenters, with the critical information hosted in the cloud space.

II. Logistics and procurement issues are easily dealt with: Maintaining on-premises datacenters requires constant maintenance of the latest software and the hardware it resides on, including compatibility and upgrade requirements. Forward planning for operating and maintaining on-premises data centers, including procurement of various physical computing components are done away with on the cloud.

III. Industries' IT apps and software turning

Software-as-a-Service (SaaS) oriented: Today, the type of IT apps and software being used by many of the industries are turning service-oriented. As a result, companies are investing in that part of the software they want –factored by the ease of use on the cloud – instead of buying a complete application software. For instance, invoicing, sales, and GST creation are some of the apps that can be easily operated in the cloud environment. Case in point, MS Office software can be easily operated from anywhere, anytime by simply logging in with one's username and password without worrying about which server the software resides in or when to upgrade the user owned application.

Towards seamless cloud migration

While businesses are keen to move to the cloud, most of them have their data sets in their own data centers and a majority of their existing IT apps and software are legacy-oriented. These, often outdated apps, are not built or structured to work in the cloud.

To address this concern, many cloud service providers are formulating frameworks or plans, offering their customers various options to ensure a smooth transition to cloud. These could vary from enterprises not transforming their software and becoming cloud native before the transition to shifting in bits and pieces.

Here is a simple cloud migration framework that can aid customers in formulating their cloud migration plans in a systematic manner.

I. Lift and shift: Here, an organization can transition its entire legacy software from its data center into the cloud. This reduces the various concerns of the IT team to a large extent, including choosing which software or app to be transformed and how before the cloud migration and whether the updated software will integrate in cloud effectively or not.

II. Optimizing cloud: Once an organization's entire legacy software has moved to cloud, it is essential to make cloud usage optimal and cost effective. Most of the legacy apps take a lot of computing resources and



therefore need to be replaced to a version that is cloud-oriented, thus enabling reduction in cloud consumption. Cloud service providers offer services to update or transform these apps in bits and pieces, helping the businesses to not just maintain costs, but also have the flexibility of scaling up or down, based on their requirements.

III. Effectively operating in cloud: One of the most fundamental elements of effectively working in cloud space is FinOps, that is, managing the financing elements of cloud consumption. This entails ensuring that the customer is using optimum level of cloud at any given point of time. For instance, during the holiday season, such as Diwali or Christmas, the company can scale up the cloud usage by augmenting requisite resources from cloud and then releasing them when the peak is over. This is applicable even on a daily, weekly basis. There are apps such as Amdocs' Cloud FinOps –a real-time dashboard that provides information regarding the peaks and lows of cloud consumption, allowing finances to be controlled accordingly.

IV. Upskilling/reskilling talent for cloud: With the fast adoption to cloud, upskilling and reskilling the organizational workforce to become cloud specialists is an imperative. Organizations need to lay down well-planned strategies that offer a clear path to enhance and develop their employees' skillsets, whether it is to build cloud native applications, test them in cloud environment, operate them, or maintain them. The

Amdocs survey revealed that 69% of Indian enterprises are training employees on cloud-based data and analytics skills and 77% of India-based IT leaders have confirmed that their organizations have plans to constantly re-skill employees on cloud services.

While these four strategies reflect an overall cloud migration action plan that can be adopted by most of the organizations, the CTOs and other decision-makers need to evaluate their first step in this direction, based on their internal workings and the business' IT requirements.

There is no "one software fits all" cloud journey for organizations looking to migrate. However, the numerous benefits of cloud migration can create a strong foundation for the organization's agility and resiliency in the long run. With the outcome of a successful cloud migration being enhanced data security, optimized scalability, reduced costs, smarter integrations, and easier access to business-critical functionality, it can be safely said that the cloud is indeed the future.

<https://bit.ly/3e4tOt3>

Don't let multi-cloud complexity delay your cloud journey! Galaxy can help your organization extend a consistent solution set across private and public clouds. Our strong OEM partnerships help you create a lasting multi-cloud strategy that unifies environments and reduces risk across your clouds.



Special Focus

VMware NSX

VMware NSX Data Center is a complete Layer 2–7 network virtualization and security platform that enables the virtual cloud network, a software-defined approach to networking that extends across data centers, clouds and application frameworks. With NSX Data Center, networking and security are brought closer to the application wherever it's running, from virtual machines (VMs) to containers to bare metal. Like the operational model of VMs, networks can be provisioned and managed independent of underlying hardware. NSX Data Center reproduces the entire network model in software, enabling any network topology—from simple to complex multitier networks—to be created and provisioned in seconds. Users can create multiple virtual networks with diverse requirements, leveraging a combination of the services offered via NSX or from a broad ecosystem of third-party integrations—ranging from next-generation.

firewalls to performance management solutions—to build inherently more agile and secure environments. These services can then be extended to a variety of endpoints within and across clouds.

Competing demands lead to compromises:

Speed and agility, robust security and high availability of applications are all critically important priorities for IT organizations to drive toward. Organizations depend so heavily on a solid application infrastructure that, increasingly, IT is the foundation enabling organizations to innovate and succeed in their digital transformation journeys. However, the rapid pace of change and shifting expectations in IT cause constantly changing priorities that often compromise effective delivery. IT is painfully aware of the frequent tension caused by accommodating multiple stakeholders to meet these demands, often being forced to give preference to one IT priority over another. For example, speed of application deployment is often a casualty of securing

that application due to the rigid complexities associated with security. Similar compromises are often made for availability applications across environments, effectively placing IT at odds with the broader organization and vice versa.

Unlocking the full potential of infrastructure:

Most organizations have already virtualized compute components in their data centers. In addition, many organizations have also made the decision to virtualize storage, with more than 70 percent of them having already adopted or planning to adopt software-defined storage.

A fundamentally new approach to data center networking is needed—one that no longer demands compromises between speed and security, or between security and agility. The rules of the data center that have held organizations back from unleashing their full potential need to be rewritten to enable IT to perform without compromises. As thousands of organizations have now realized, network virtualization is that new approach.

Intrinsic security:

NSX Data Center leverages unique visibility into application composition - from network communications to process-level behavior on individual workloads - granted by its built-in position in the hypervisor and other native control points on top of which applications are built. This visibility drives the automated creation of network security policies based on the intended security posture for the application. This decreases the amount of time IT/information security and application development teams spend in security review cycles.

Automation:

As the scope pace of organizations continues to grow and accelerate, automating virtualized networking and security ensures that services and applications are created and deployed at the speed of business. By removing manual, error-prone network provisioning tasks through automation, the speed of application deployment substantially increases.

Multi-cloud networking:

NSX Data Center and NSX Cloud provide a unified networking and security model across sites, eliminating manual network configuration and achieving high operational efficiency through network automation. Network and security policies remain with the individual workload through its lifetime, simplifying policy and management in hybrid and multi-cloud environments. NSX Federation enables centralized policy management

across locations (on-premises and cloud), offering operational simplicity and consistent enforcement across clouds.

Networking and security for modern apps:

VMware NSX Data Center integrates with new app platforms to offer networking and security functionality (such as load balancing, firewalling, switching and routing), done completely in software, and consumable in an infrastructure-as-code, API-driven fashion.

Key Features

- Distributed stateful firewalling – Enables stateful firewalling up to Layer 7, embedded in the hypervisor kernel, distributed across the entire environment with integration directly into cloud-native, native public clouds and bare-metal hosts.
- Context-aware micro-segmentation – Dynamically creates security groups and policies, and automatically updates them based on many attributes and Layer 7 application information to enable adaptive micro-segmentation policy.
- Cloud management – Natively integrates with vRealize Suite, OpenStack and more, and fully supports Terraform Provider, Ansible modules and PowerShell integration.
- Third-party integration – Enhances security and advanced networking services through an ecosystem of leading third-party vendors.
- Cloud-native support – Supports enterprise-grade advanced networking and security across container platforms, VMs and bare-metal hosts with container network visibility.
- NSX Intelligence – Reduces time to discover, analyze and enforce application segmentation policies without any new tools or agents to deploy; simplifies security operations with intrinsic security built into the infrastructure.
- NSX Distributed IDS/IPS – An advanced threat detection engine purpose-built to detect lateral threat movement on east-west traffic using built-in distributed analysis and curated signature distribution.

Don't let your organization be vulnerable!
Galaxy offers various cybersecurity solutions to keep your company safe, to talk to our experts email us at marketing@goapl.com



VMware offers SD-WAN integration with Microsoft Azure Virtual WAN Hub

VMware on Wednesday announced the integration of VMware SD-WAN into the Azure Virtual WAN Hub, automatically connecting SD-WAN branches to the Microsoft Azure backbone.

With the combination, "you get the advantage of the performance of the last mile from our SD-WAN, and you get the performance of Microsoft's backbone," VMware SVP Sanjay Uppal said to ZDNet.

The integration is the latest piece of VMware's strong partnership with Microsoft, and it comes at a time when dispersed workforces are making WAN access more valuable.

When the Covid-19 pandemic took hold last year, VMware saw some significant, unexpected changes happening in its SD-WAN business, Uppal said.

"We deploy our edges in a number of enterprise locations, and each of those edges acts like a sensor, so it actually senses what's happening on the network," he explained.

Networks came under significant pressure, he said, especially those connected to homes. Issues like bandwidth, latency, packet loss and jitter started growing.

The shift to remote work increased demand for some of VMware's lowest-end SD-WAN devices, as well as higher-end devices used by professionals like

radiologists. Meanwhile, supply chain issues "have required us to be very flexible in terms of where our components and everything comes from," Uppal said.

While demand grew for Work from Home solutions and from certain verticals like logistics, "certain verticals dropped off the face of the Earth," Uppal said -- that included hospitality and the airline industry.

For customers that need Work from Home solutions, VMware recently demonstrated the benefits of SD-WAN for Microsoft 365 users experiencing networking challenges like. With VMware SD-WAN, users experiencing problems like latency or packet loss can get a 5X to 10X improvement with Microsoft 365, Uppal said.

Last year, VMware began working with Microsoft to offer solutions for Azure Edge Zones and Azure Private Edge Zones. Edge Zones deliver Azure services and enable customers to seamlessly deploy and run Virtual Network Functions including VMware SD-WAN across Azure regions and Azure Edge Zones. VMware is the only Azure Edge Zones "public preview" SD-WAN partner.

VMware also works with Microsoft to deliver SD-WAN to customers in the healthcare and retail sectors.



<https://zd.net/2PASO0R>

Nasscom, Microsoft launch 'AI Gamechangers' programme

In a bid to boost the adoption of artificial intelligence (AI) technology in India, The National Association of Software and Service Companies (Nasscom) along with Microsoft on Tuesday announced a new AI Gamechangers programme.

Nasscom and Microsoft will work closely to develop and promote the AI programme to accelerate the adoption of AI across key sectors.

It will recognise innovators for their successful AI implementation at Nasscom's virtual 'Xperience AI Summit', one of the largest AI event in India, in July.

While the country continues to leap forward to become

the global innovation hub, we expect AI to unlock \$500 billion of value to India's GDP by 2025," said Debjani Ghosh, President, Nasscom.

The programme aims to serve as a platform for startups, enterprises, academia, governments, and NGOs to showcase their AI-based products and solutions.

"Data and AI are driving transformation at scale across industries and offer a tremendous opportunity to transform public infrastructure and solve some of the most critical issues facing the country today," said Anant Maheshwari, President, Microsoft India.

The nomination window will be open from March 4-April 16, followed by screening and final presentations.

<https://bit.ly/30bWA2R>

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