

Everything That Is Cloud Migration

Best Cloud practices you should consider
during any migration project

Cloud Migration Services market is
expected to grow from

USD 3.2 billion

in 2017 to

USD 9.5 billion

by 2022

You need cloud now more than ever!

What is Cloud Migration?

Cloud migration is as simple as it gets - it is any process that helps you move digital assets like data, resources, applications, or even workloads onto Cloud Infrastructure. It refers to the moving tool and data from traditional infrastructures or on-premise data centers to the Cloud. By using Cloud-based solutions and migration processes, it is now easier for companies to automate at a faster time-to-market, and efficient capacity planning.

We are at the beginning of a digital revolution, and the data volumes are exploding at an alarming rate i.e., more data has been created in the past few years than in the entire history of the human race.

Here's everything you need to know about the best practices that can make your Cloud Migration a success.

Why do you need Cloud Migration?



Quicker apps and services deployment



Speeds up application development process



Capex/Opex expenditures



Data Security and Governance best Practices



Enhanced data security



Increased need for flexibility and scalability



Regular maintaining and upgrading of IT Infrastructure



Rightsizing current workloads to fit application specifications and allowing for future changes



To improve application delivery performance and accessibility



Augmenting new workloads in the cloud while maintaining current on-prem environment

What are the challenges in cloud migration?



Planning a cloud migration strategy

Building a cloud migration strategy will not only guide your entire cloud adoption deliverables but it will help negate unnecessary security and governance risks from the onset.



Breaking down your cloud migration into stages

Moving everything into the cloud all at once can not only hamper your process but can erase, corrupt, or expose data vulnerabilities. Alternatively choosing which workloads to migrate over to the cloud will depend on your experience around the platform and how that workload interacts with your business.



Cost of cloud migration

Moving to the cloud is an expensive affair if you don't have a financial plan in place. However, planning your costs ahead in time or having a managed service provider handle the cloud solutions will help you reduce migration costs.

What are the challenges in cloud migration?



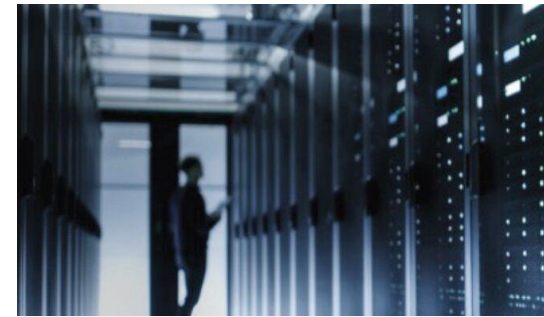
Cloud security questions

Cloud security and governance is the number #1 priority for businesses who are looking to move to the cloud. Cloud Solution Providers have not only addressed these concerns with previous clients but they're also invested in protecting the sensitive data within these new technology platforms.



Preventing cloud vendor lock-in

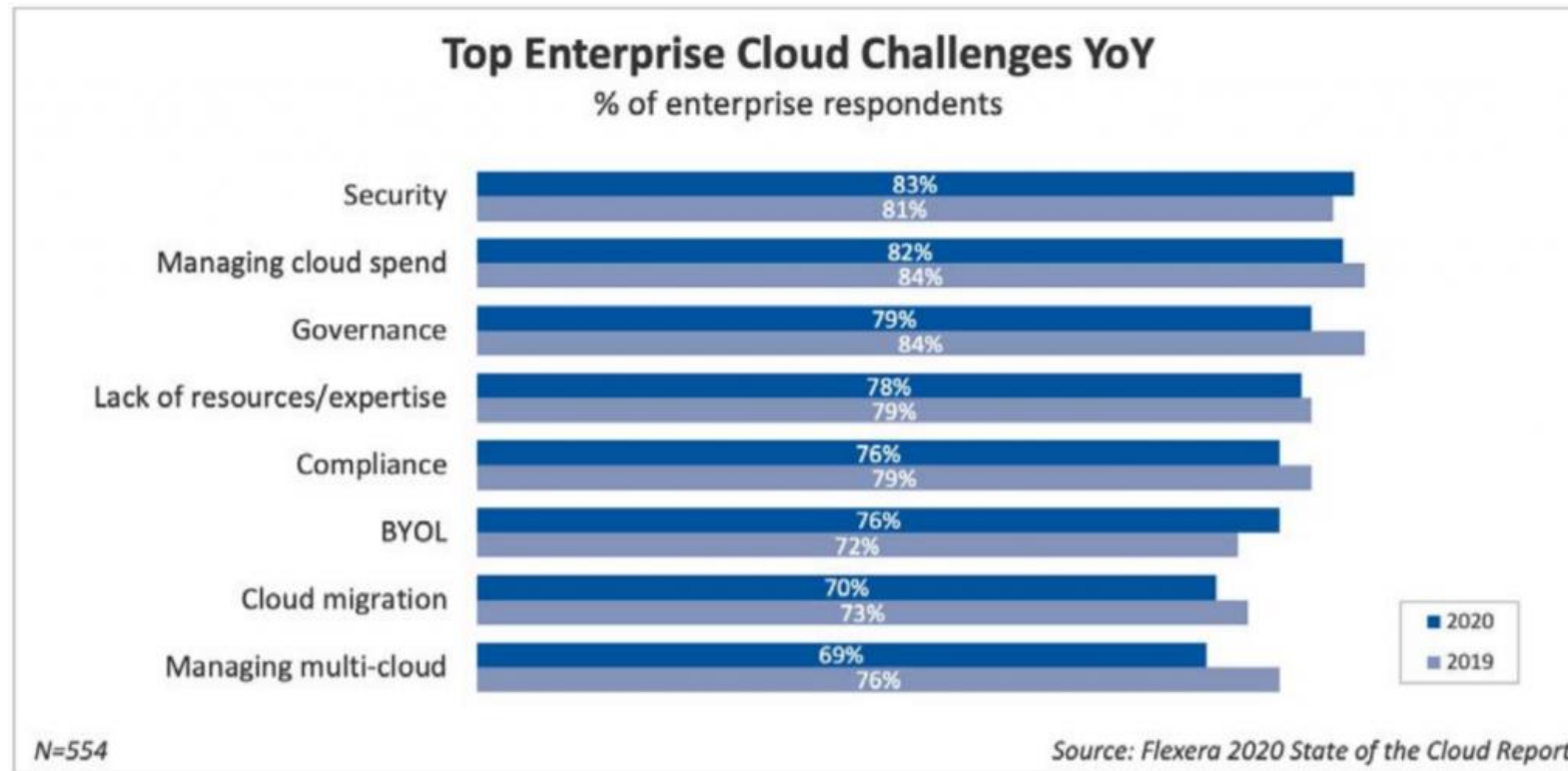
Flexera's new State of the Cloud report has revealed that almost all enterprises have embraced multi-cloud with 93 percent of companies now using multiple cloud service providers. Opening up to multiple cloud providers allows flexibility with services and enables your company to compete with the enterprise.



Failing to develop a plan for disaster recovery

It's critical to know about expected risks. Ensure your vendor has a definite arrangement for disaster recovery. For instance, the disaster recovery upholds/support from AWS incorporates a wide range of architectures.

What are the challenges in cloud migration?



Here are 5 best Cloud Migrations practices
to keep in mind while planning
your Cloud strategy

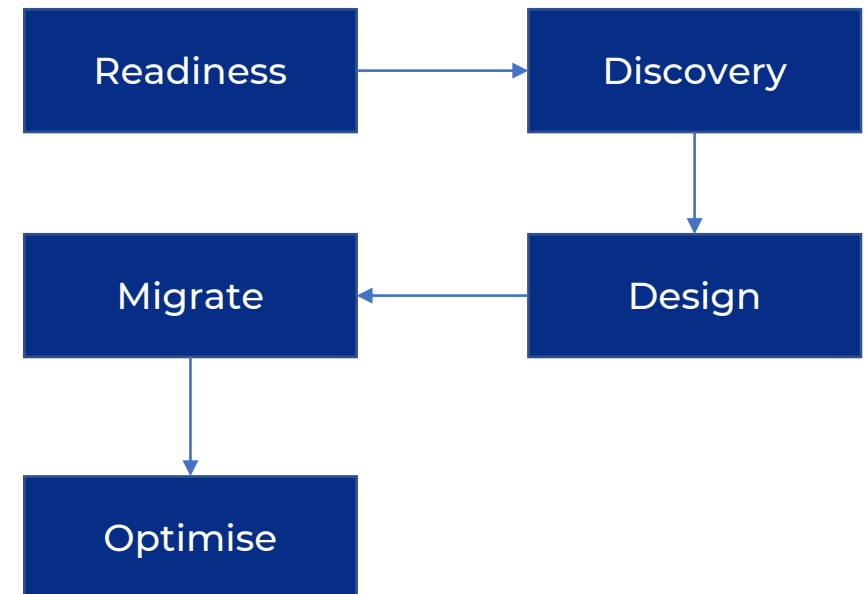




1. Understand the Business Plan

Understanding business plans and requirements are always the first step of the migration process. Here, we base the plan of action based off on the three thumb rules - business goals, existing application architecture, and company requirements. To gain executive buy-in, it is essential to ensure that the top-down quantifiable goals are identified and outlining how certain operations will take shape.

What a Migration Strategy and Execution Process looks like





2. Train your team and accountable leaders

It is the responsibility of not only the sales staff, but also all other departments in the office, including large and small scale units, to sustain customer dedication. Product knowledge enables businesses to correctly and transparently present tools, services and its benefits. Customers often react positively when the person on the other end of the line is fully informed about the company's products and services.

This is when uniform training should be put into place to train the entire team, where we must make sure that the business goals and the company's objects are in tandem.

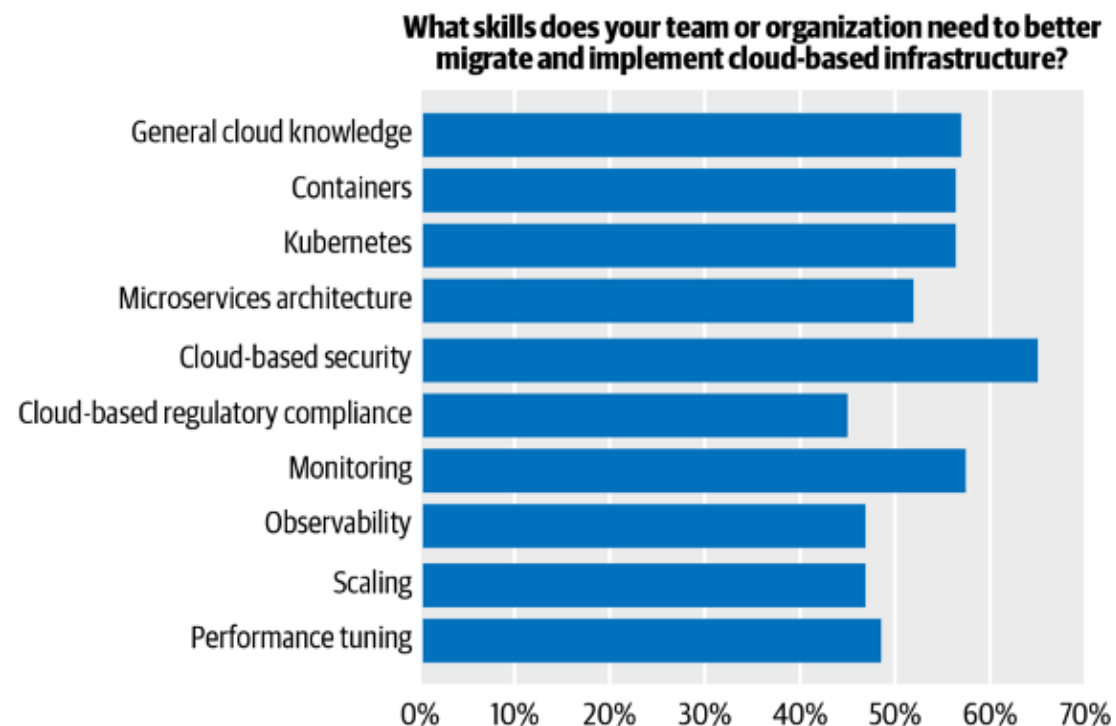


Figure 12. Skills respondents' organizations need for better migration and implementation of cloud-based infrastructure



3. Understanding the different workloads

Starting from end-to-end to outside-in, understanding the digital business services is essential from the customer's perspective. and this is possible if we are continuously monitoring our strategies and performance across all levels.

We need to ask the relevant questions such as what level of automation is embedded in the company and what are the measure to be taken to maintain its efficiency and efficacy.



Nearly 80% of companies plan to have 10 percent or more of their workloads in the public cloud or double their public-cloud use within three years.

Source: McKinsey & Company



4. Focus on being agile and reduce costs

Companies and organizations must adopt both agile approaches as well as continuous learning and development in the migration process. The agile process applies not just to companies but to the managed service providers and their partners as well. Businesses should let their members provide inputs easily on what is working out for the company and what is not working out such that if there is a hiccup arising then the important changes are given priority.

Cloud can reduce costs across functions.

Share of cost reduction by function, %



Source: McKinsey & Company



5. Compliance and Security

With new cases about high-end data breaches, there is a strong necessity for enterprises to focus not just on the data but also on the migration of data onto the cloud. Companies must ensure that the cloud is safe for transfer and stays consistent with relevant regulations. So companies must make sure they are abiding with the compliance regulations and protocols as required of them.

Top Enterprise Obstacles in Security & Compliance

- 1 Data privacy and security challenges
- 2 Controlling cloud costs
- 3 Securing/protecting cloud resources
- 4 Lack of cloud security expertise
- 5 Managing cloud resources

Source: International Data Group

What is the smartest way to actually move your GB, TB, or PB of data?

How do you gracefully move from your current location to your new cloud, with minimal disruption, cost and time? It's a basic underlying problem: how much data can move how far how fast? For a best case scenario use this formula:

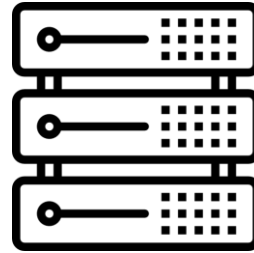
$$\text{Number of days} = \frac{\text{Total Bytes}}{(\text{Megabits per second} * 125 * 1000 * \text{Network Utilization} * 60 \text{ seconds} * 60 \text{ minutes} * 24 \text{ hours})}$$



What are some tools used for Cloud Migration?



AWS Database
Migration Service (DMS)



AWS Server Migration
Service (SMS)



AWS Application
Migration Service (MGN)

Why should you consider working with us

1

Lowering overheads with Amazon EKS

3

Developing a customized NOC framework covering 52 processes

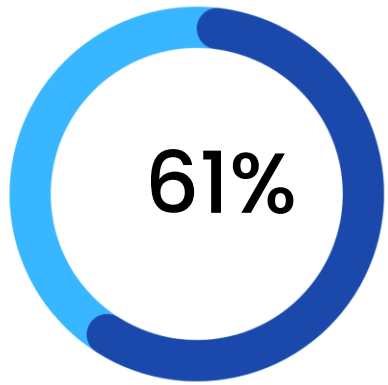
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Twin migrations from server to cloud to dockers

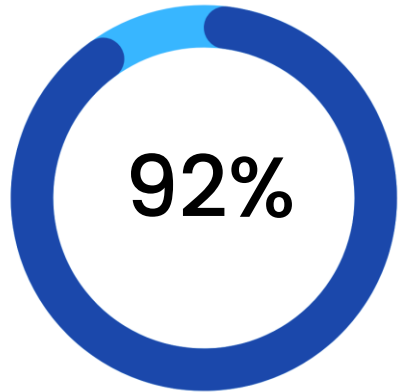
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Cloud Migration Strategy development and implementation

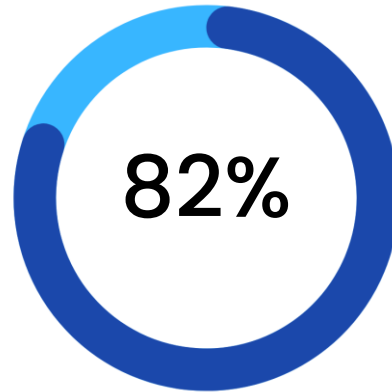
What are the Cloud Migration trends to look out for?



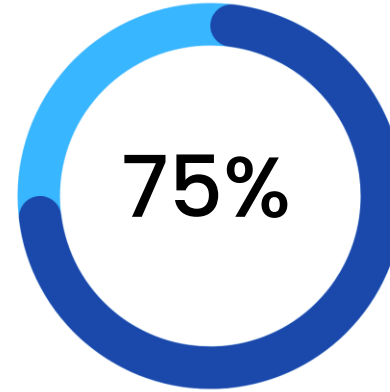
61% of organizations plan to optimize existing use of cloud in 2021



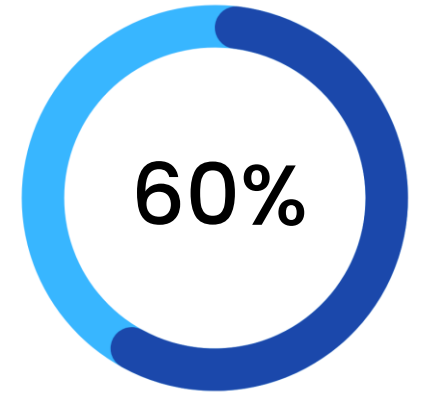
92% of enterprises have a multi-cloud strategy



82% have a hybrid cloud strategy



By 2021, 75% of midsize and large organizations will have adopted multi-cloud or a hybrid strategy



60% of organizations will be using an external cloud provider's managed services offering by 2022

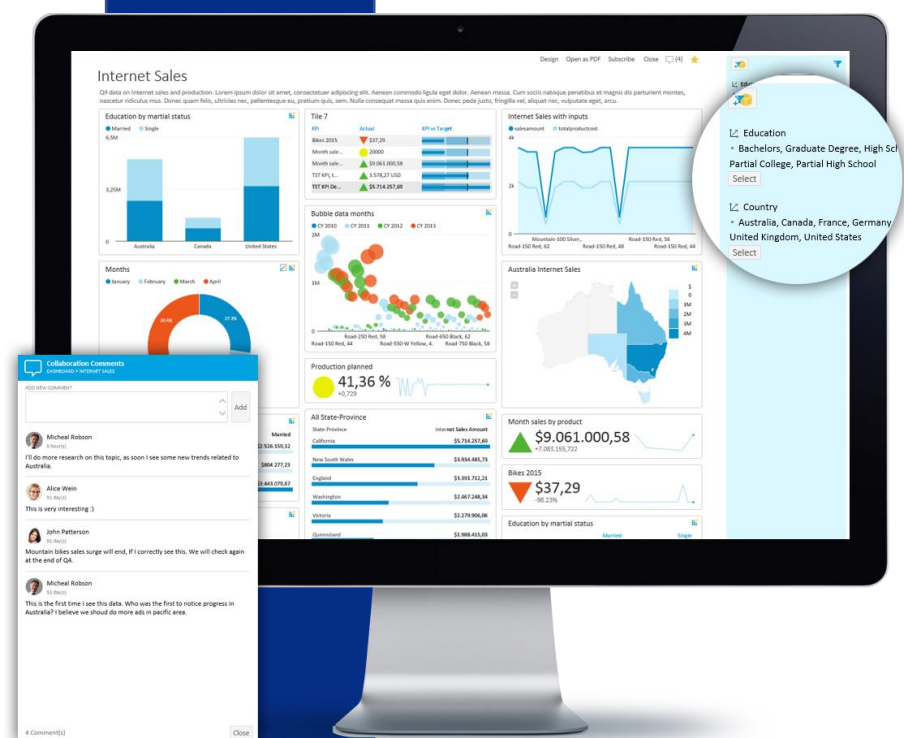
D.A.R.E.

Take a look at our work on Cloud Migration for a Non-Profit Organization

How AWS was used to move a Non-Profit Organization's server to the Cloud

D.A.R.E. (Drug Abuse Resistance Education), founded in 1983, is a police officer-led classroom lesson where children from kindergarten through 12th grade are taught peer pressure resistance, and how to live a drug-free and violence-free life.

Teqfocus helped successfully migrate their servers to the cloud using Amazon Web Services (AWS). As an effect of this migration, they are saving on IT costs, improved productivity and business agility, as well as operational resilience. Keeping up the fast-growing demand for server migration, Teqfocus in partnership with AWS has enabled successful Cloud Migration for organizations like D.A.R.E.



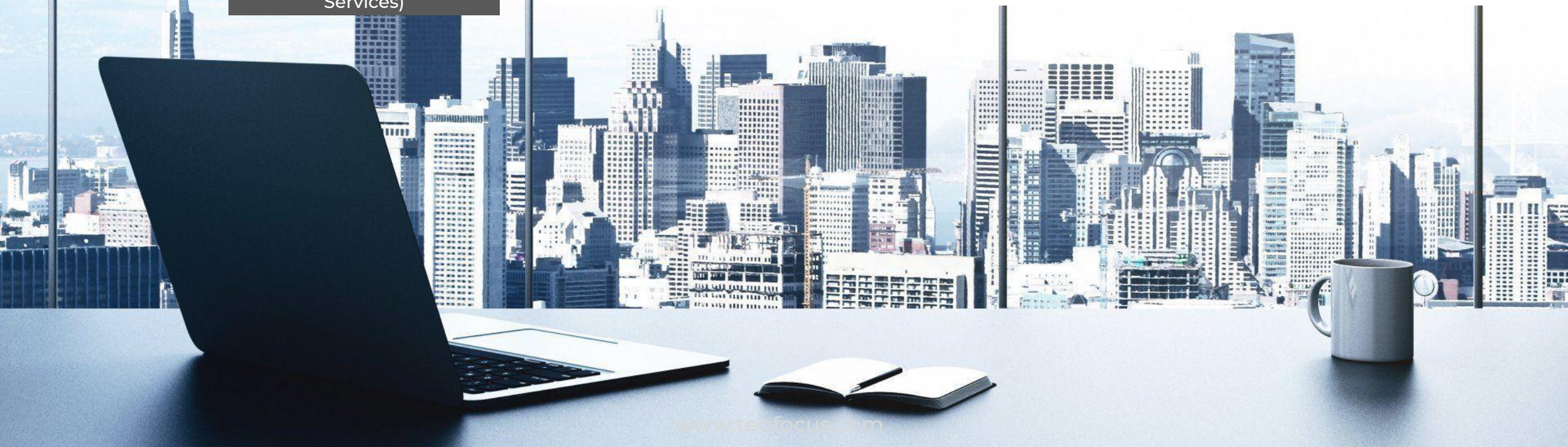


Daniel Heckerorth

Account Executive
(Cloud Infrastructure
Services)

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As a Cloud Solution Specialist for over the last 7 years of my career, the biggest mistake I have seen Enterprise, Public sector, and Commercial businesses make are not having a clearly defined cloud strategy. In turn, the fundamentals of cloud migration best practices are still at the core of every successful migration.”





Teqfocus brings together the best of its AWS Select Partner network to help your business gain a competitive edge and deliver high-impact digital innovations, bringing you one step closer to complete digitization.

We take a consultative approach to deliver end-to-end digital experience and redefine technology by bridging the gap between business solutions and technology implementation.



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