

eBook

10 Ways cloud migration is impacting enterprise networks



10 Ways cloud migration is impacting enterprise networks:

Introduction

Cloud migration has revolutionized the way enterprises operate.

It's also revolutionized expectations and approaches to network infrastructure. As businesses move more and more of their operations to the cloud, their networks must adapt to various factors, like:

1. Increased performance needs.
2. Security challenges.
3. New management and visibility requirements.

Enjoy this eBook and explore the ten key ways cloud migration is impacting enterprise networks, how your organization can navigate these changes, and how you can optimize your network strategies.

10 Ways cloud migration is impacting enterprise networks:



#1. Enhanced network flexibility and scalability

With cloud migration, enterprises can easily adjust their resources to meet fluctuating demands.

Traditional on-premises infrastructures often require substantial investment in hardware and software, making it challenging to scale resources up or down based on demand. But cloud is a scalable solution that allows businesses to quickly provision additional computing power and storage.

To support this, your network needs to be dynamic, flexible, easy to scale, and provide visibility and control over your resources no matter where they are. So that you are able to innovate at pace and maximize your ROI.



10 Ways cloud migration is impacting enterprise networks:



#2. Cost optimizations

By moving to the cloud, businesses can reduce their reliance on costly on-premises infrastructure and benefit from a pay-as-you-go model. As you only pay for the resources you use, there are significant cost savings, particularly for organizations with variable workloads.

However, cloud itself cannot guarantee cost-efficiencies as you also need to streamline your network and move away from costly private links to an Internet-first model.



#3. Increased security considerations

Enterprises must ensure that their data is protected as it moves to and from the cloud. This means:

- Robust encryption protocols.
- Secure access controls.
- Comprehensive monitoring systems to detect potential threats.
- A structured threat response process.

Moreover, as businesses adopt multi-cloud strategies, managing security across different cloud environments can become complex along with the need to maintain compliance with industry regulations. Enterprises need to implement consistent security policies with Zero Trust Network Access principles to safeguard their data.

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#4. Greater dependency on Internet connectivity

Cloud-based applications and services require continuous, high-quality Internet connections to function effectively. Any disruption in connectivity can impact business operations, leading to downtime and productivity losses.

To mitigate this risk, enterprises need to invest in robust Internet infrastructure, including redundant connections and failover mechanisms.

Additionally, leveraging technologies like **SD-WAN** can help optimize Internet performance and ensure reliable connectivity to cloud resources.



#5. Evolving network architecture

Enterprises are shifting from centralized data centers to more distributed network models. This shift is necessary to support the dynamic nature of cloud environments, where applications and data are often spread across multiple locations.

Adopting cloud-native architectures, such as microservices and containerization, further influences network design.

These architectures require advanced networking capabilities to ensure smooth communication between different components and services.



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#6. Increased traffic and bandwidth from remote communication tools

Cloud-based applications enable employees to collaborate in real-time, regardless of location. Tools like Microsoft Teams, Slack, and Google Workspace offer integrated communication, file sharing, and project management capabilities.

However, these applications create increased demand on enterprise network and security. To mitigate this, organizations need scalable solutions that do not impact user experience.

Secure Access Service Edge (SASE) solutions allow you to create a flexible network that is easy to scale based on your business requirements.

Additionally, SASE enhances user experience by bringing security closer to the user, optimizing connections for low latency and high bandwidth.

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#7. Increased network complexity from multi-cloud strategies

Multi-cloud strategies offer companies access to the best features and services from different cloud solutions. This approach can enhance flexibility, optimize costs, and improve redundancy.

However, managing multiple cloud environments introduces complexity, particularly in terms of network connectivity and integration.

Enterprises need robust network routing and management solutions to ensure seamless connectivity between different cloud platforms. Implementing a unified network management strategy can help streamline operations and improve overall efficiency.



#8. Greater resilience and business continuity

More and more organizations have the need for real-time data information flow between sites, which means you need robust site-to-site and site-to-cloud connectivity.

You also need to ensure consistent access to cloud-based workloads and applications, and this requires a resilient network.

To overcome this two-fold problem, many enterprises are investing in multiple failover options like **Fixed Wireless Access** or satellite, often with an intelligent solution on top such as **SD-WAN** with automatic failover to keep your site running and route critical traffic on the best available path, no matter what happens.

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#9. Network design and visibility complexities for edge computing

Edge computing involves processing data closer to its source, such as IoT devices or local servers, rather than relying solely on centralized cloud data centers.

For enterprises, integrating edge computing with cloud environments requires careful planning and network design. Ensuring seamless connectivity, security and efficient data routing between edge devices and cloud resources is essential for maximizing the benefits of this hybrid approach.

However, you also need to ensure you have visibility over your whole network as with edge computing and the IoT, you have more entry points into your network. That means considerably more points of vulnerability you need to monitor.



#10. Enhanced data analytics and insights

Cloud platforms offer powerful analytics tools that can process vast amounts of data quickly and efficiently. These tools provide valuable insights into business operations, customer behavior, and market trends.

This requires robust data management and network infrastructure to ensure seamless data flow and accessibility.



10 Ways cloud migration is impacting enterprise networks:

Embed your cloud needs into your connectivity strategy

Cloud migration significantly impacts enterprise networks, offering numerous benefits and presenting new challenges.

By understanding these impacts, enterprises can develop effective strategies to optimize their network performance, enhance security, and support business growth. Embracing cloud technologies with the right mix of network solutions suited to their specific environments, users and applications will be the key to success.

SD-WAN and SASE are key parts of this global connectivity strategy, providing a high-performing network infrastructure in the locations where cloud application performance needs to be guaranteed.

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Harness the power of a connected, flexible network with **Managed SD-WAN** and SASE. We give you control over how and where you get connected with the ability to easily deploy and scale sites through our managed services.

Network visibility is built in for all our customers through our **expereoOne** platform. You get a complete, intuitive view of your combined network underlay and overlay services, including SD-WAN and SASE, all in one place.

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