

Cloud computing

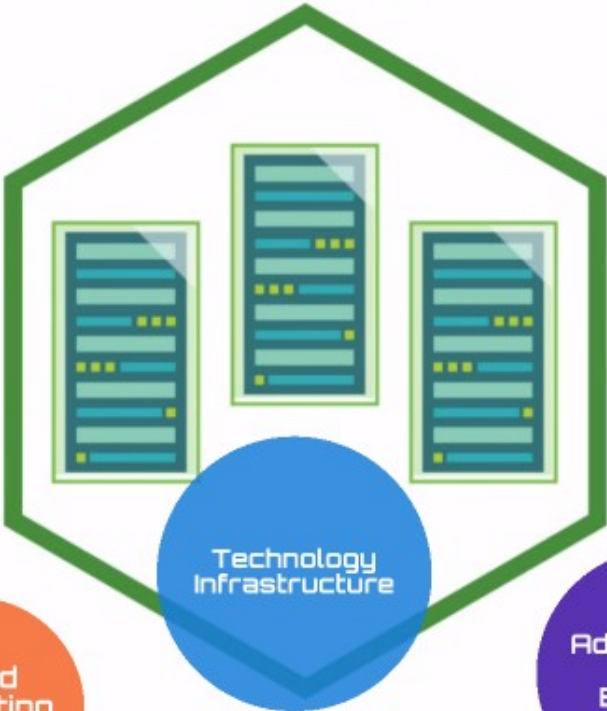


Group 3
GROUP MEMBER:
YU, KA IN (1155087085)
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Overview

Cloud computing and Amaz...

Cloud computing market



Advantages and Benefits

Disadvantage and Threats

Question Time

✓ Feasible

✓ Affordable

✓ Efficient

Cloud computing





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Overview

1. What is cloud computing and AWS?
2. Cloud Computing Market
3. Technology Infrastructure in AWS
4. Advantages and Benefits of AWS
5. Disadvantage and Threats

Cloud computing

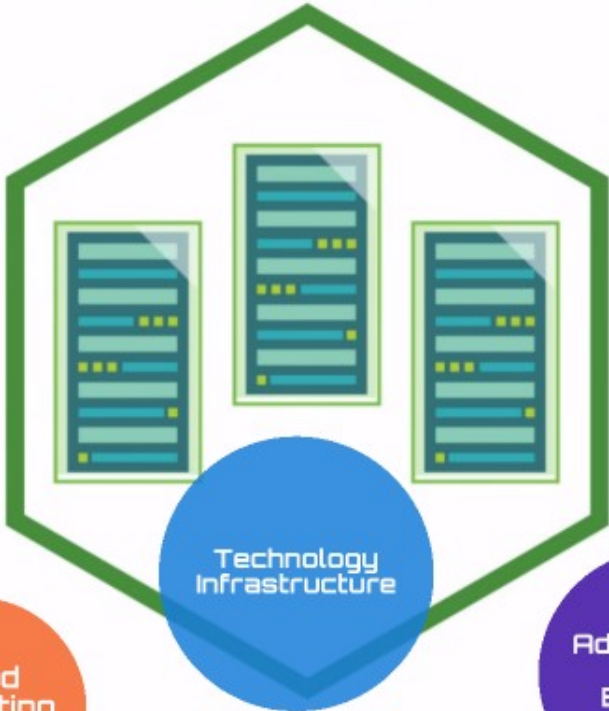


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Cloud computing and Amazon Web Services (AWS)



Cloud
computing

Amazon
Web
Services

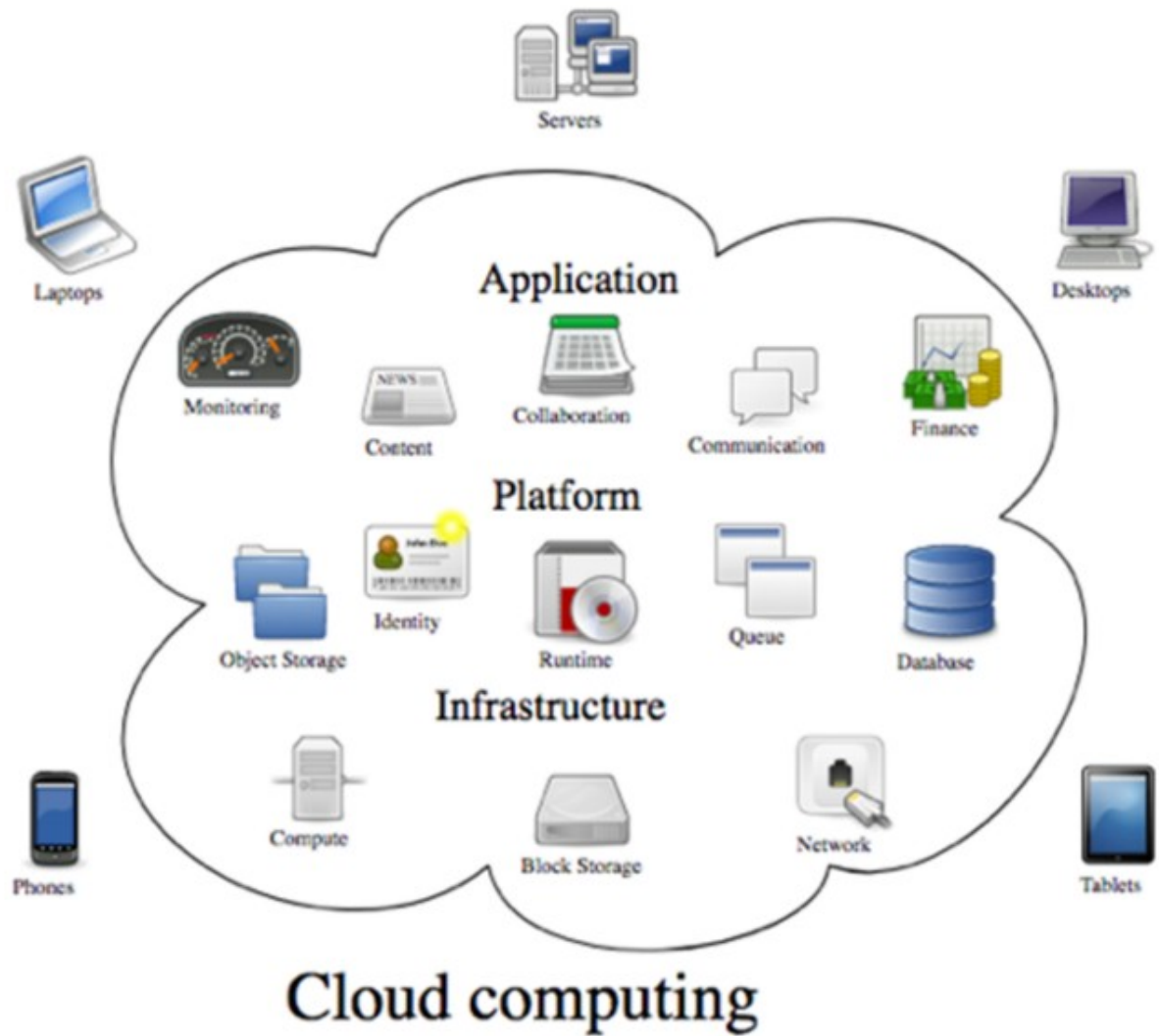
What
does
AWS
offer?



Cloud computing

A cloud refers to a distinct IT environment that is designed for the purpose of remotely provisioning scalable and measured IT resources.





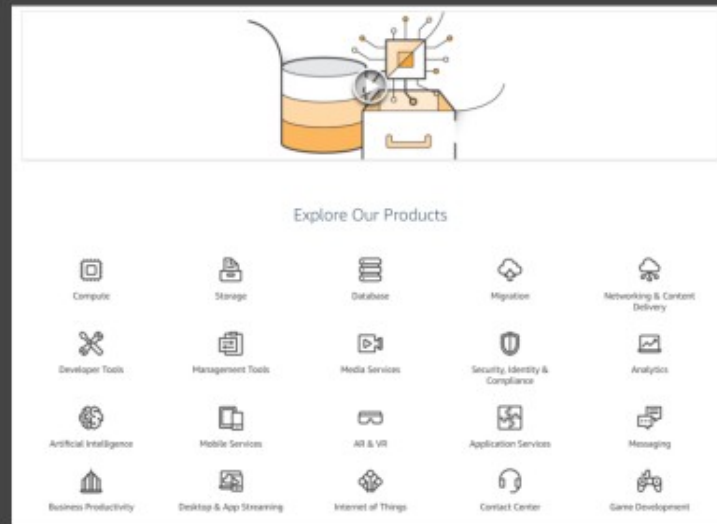


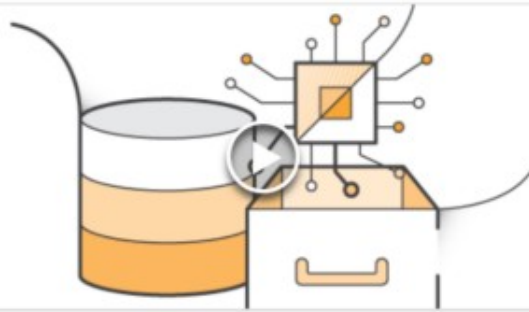
Amazon Web Services

Amazon Web Services (AWS) is a cloud services platform, offering compute power, database storage, content delivery and other functionality to help businesses scale and grow.

The AWS Cloud provides a broad set of infrastructure services delivered as a utility: on-demand, available in seconds, with pay-as-you-go pricing.

What does AWS offer?





Explore Our Products



Compute



Storage



Database



Migration



Networking & Content
Delivery



Developer Tools



Management Tools



Media Services



Security, Identity &
Compliance



Analytics



Artificial Intelligence



Mobile Services



AR & VR



Application Services



Messaging



Business Productivity



Desktop & App Streaming



Internet of Things



Contact Center



Game Development

Cloud computing

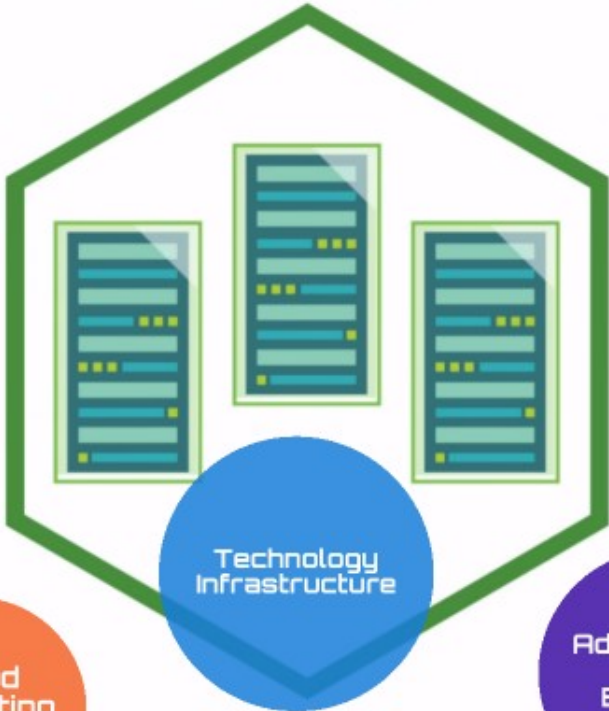


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Advantages and Benefits

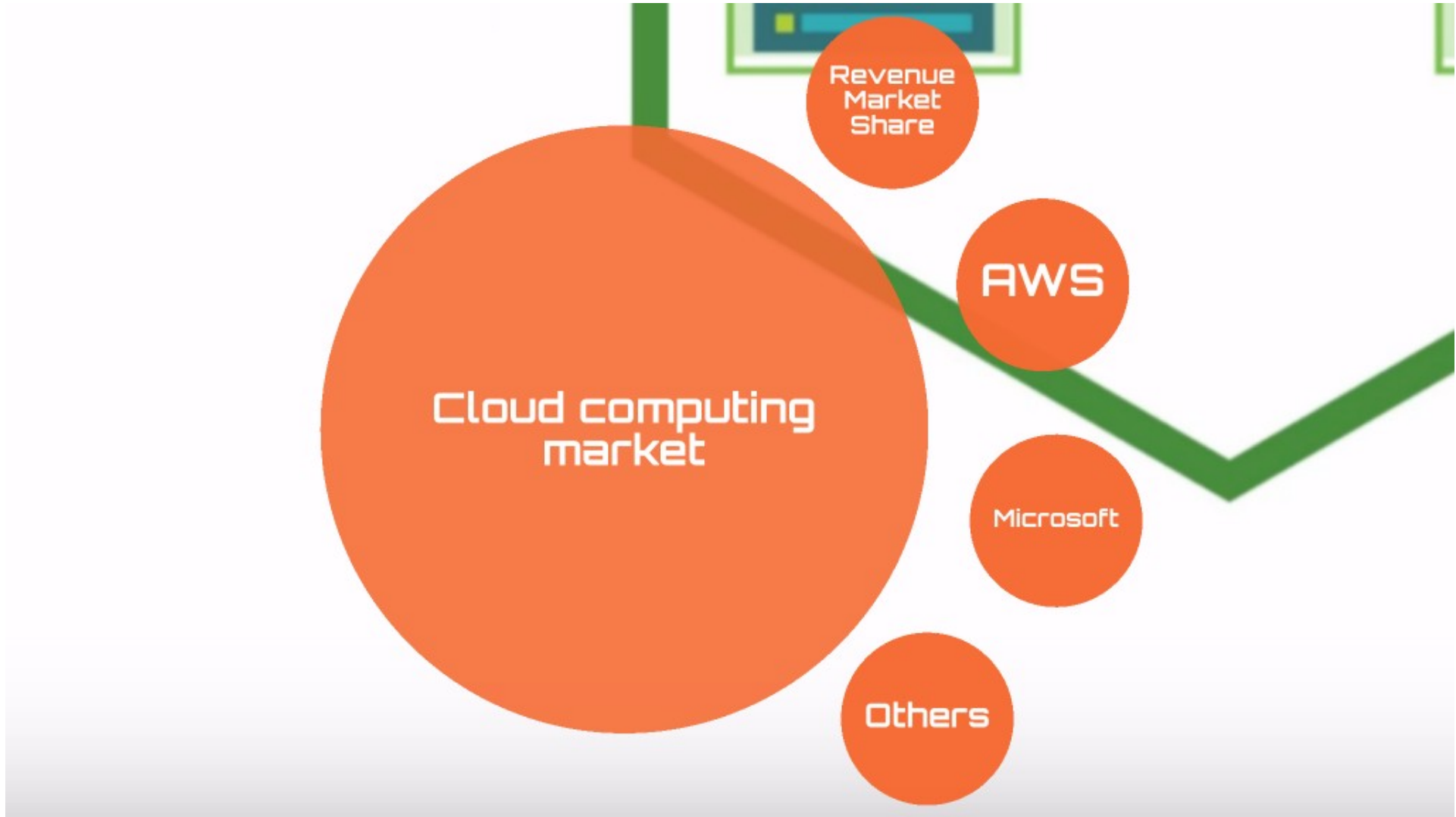
Disadvantage and Threats

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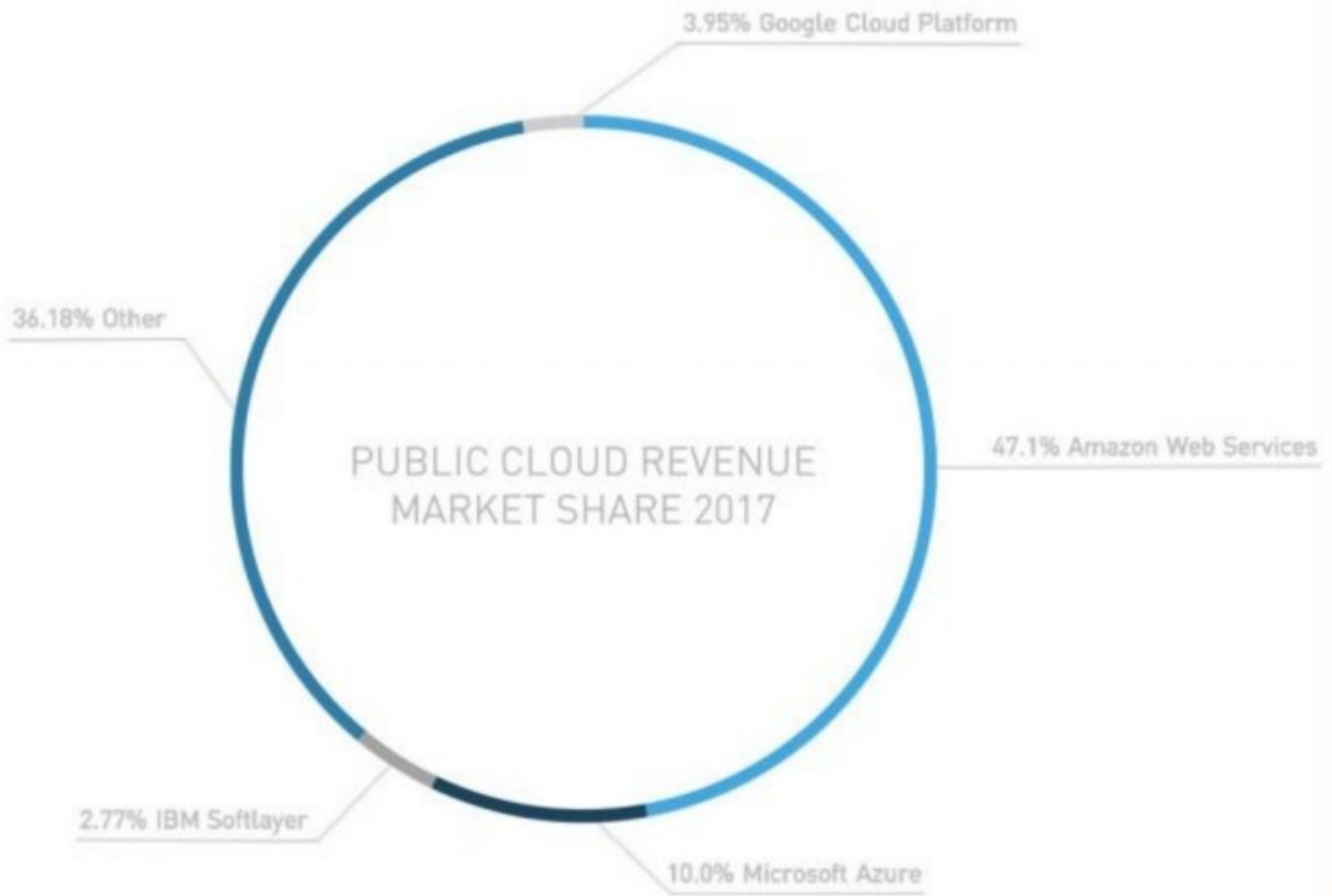
✓ Efficient



Revenue Market Share

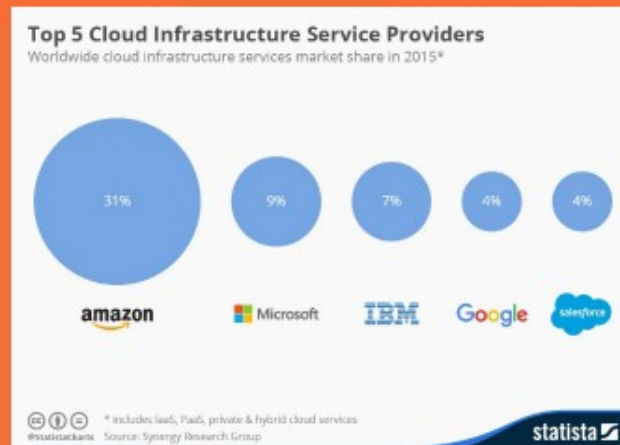


Source: <https://www.skyhighnetworks.com/cloud-security-blog/microsoft-azure-closes-iaas-adoption-gap-with-amazon-aws>



AWS

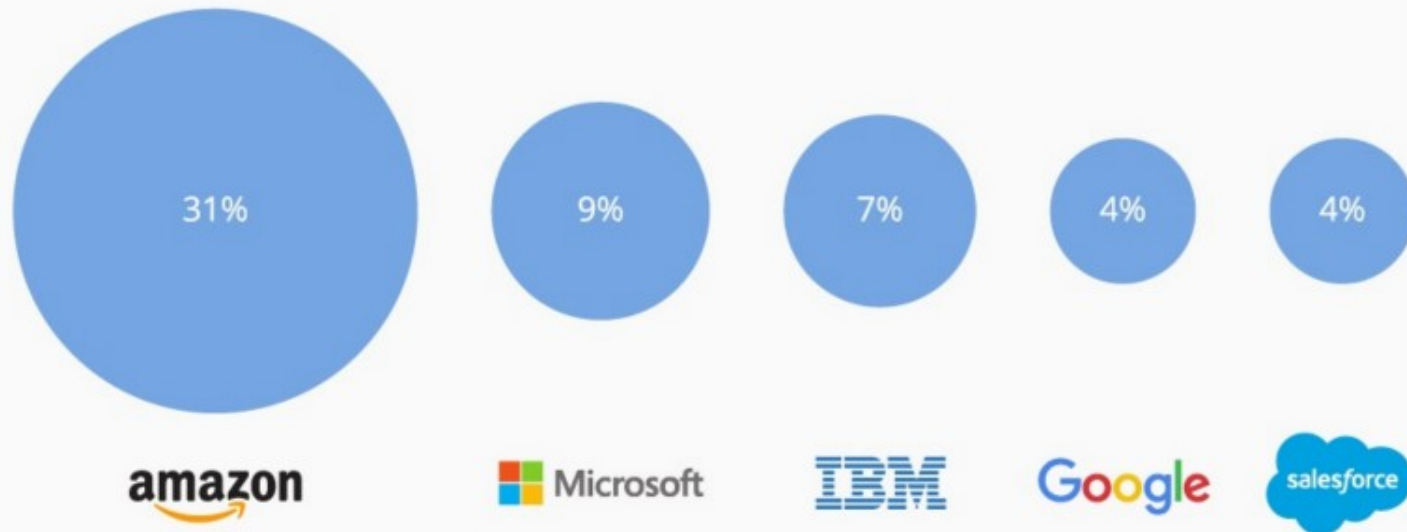
AWS benefits from its first-mover advantage, broadest cloud services portfolio and strong awareness among developers.



Source: <https://www.statista.com/chart/4546/cloud-infrastructure-market-share-2015/>

Top 5 Cloud Infrastructure Service Providers

Worldwide cloud infrastructure services market share in 2015*



@StatistaCharts

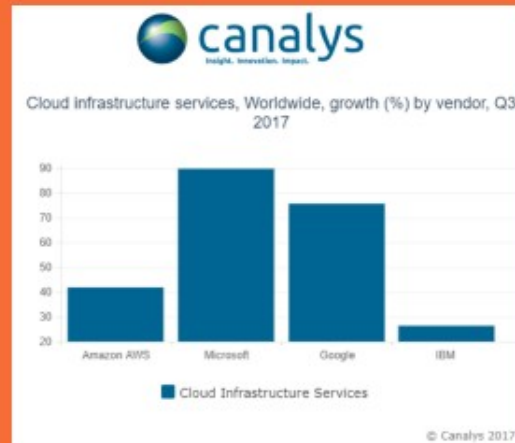
* includes IaaS, PaaS, private & hybrid cloud services

Source: Synergy Research Group

statista

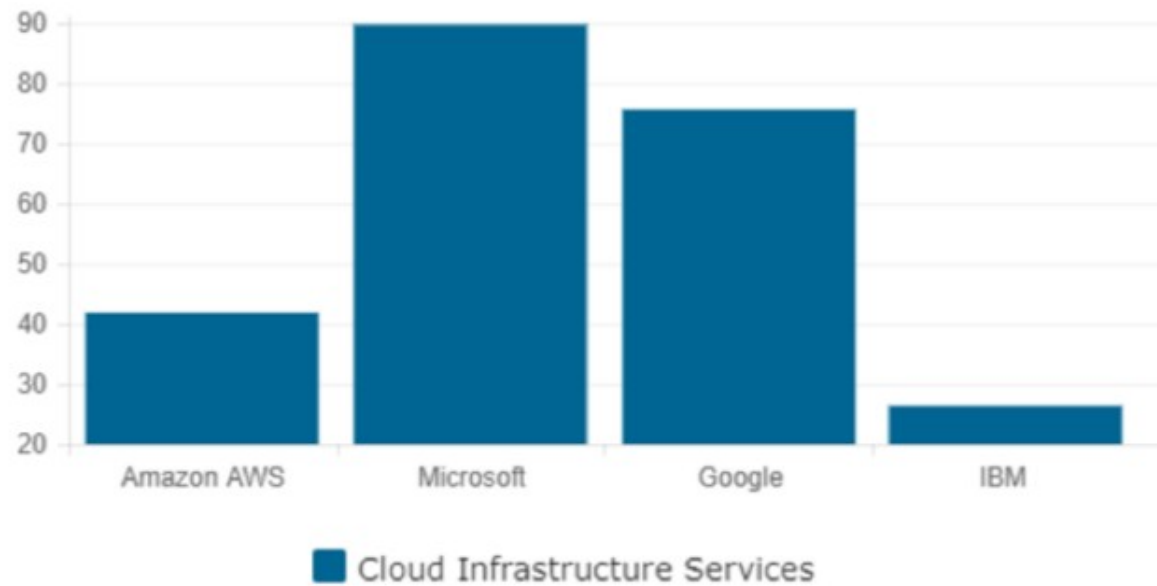
Microsoft

Microsoft's substantial growth, driven by its huge enterprise installed base, compatibility with its Office portfolio and enhanced hybrid cloud solutions, means it will remain AWS' closest competitor



Source: <https://www.statista.com/chart/4546/cloud-infrastructure-market-share-2015/>

Cloud infrastructure services, Worldwide, growth (%) by vendor, Q3 2017



© Canalys 2017



Others

Other companies had some work to do to catch up with the amount of pure functionality that AWS offers its customers – and which they are adding to on a regular basis.

Cloud computing

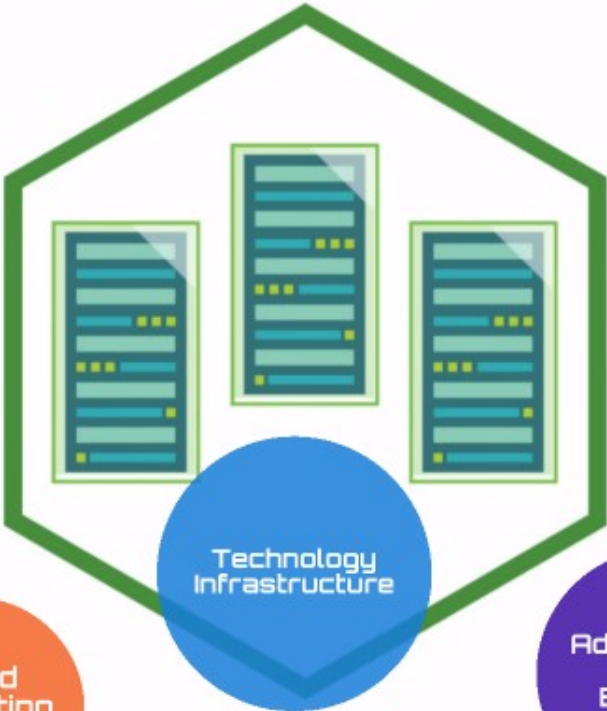


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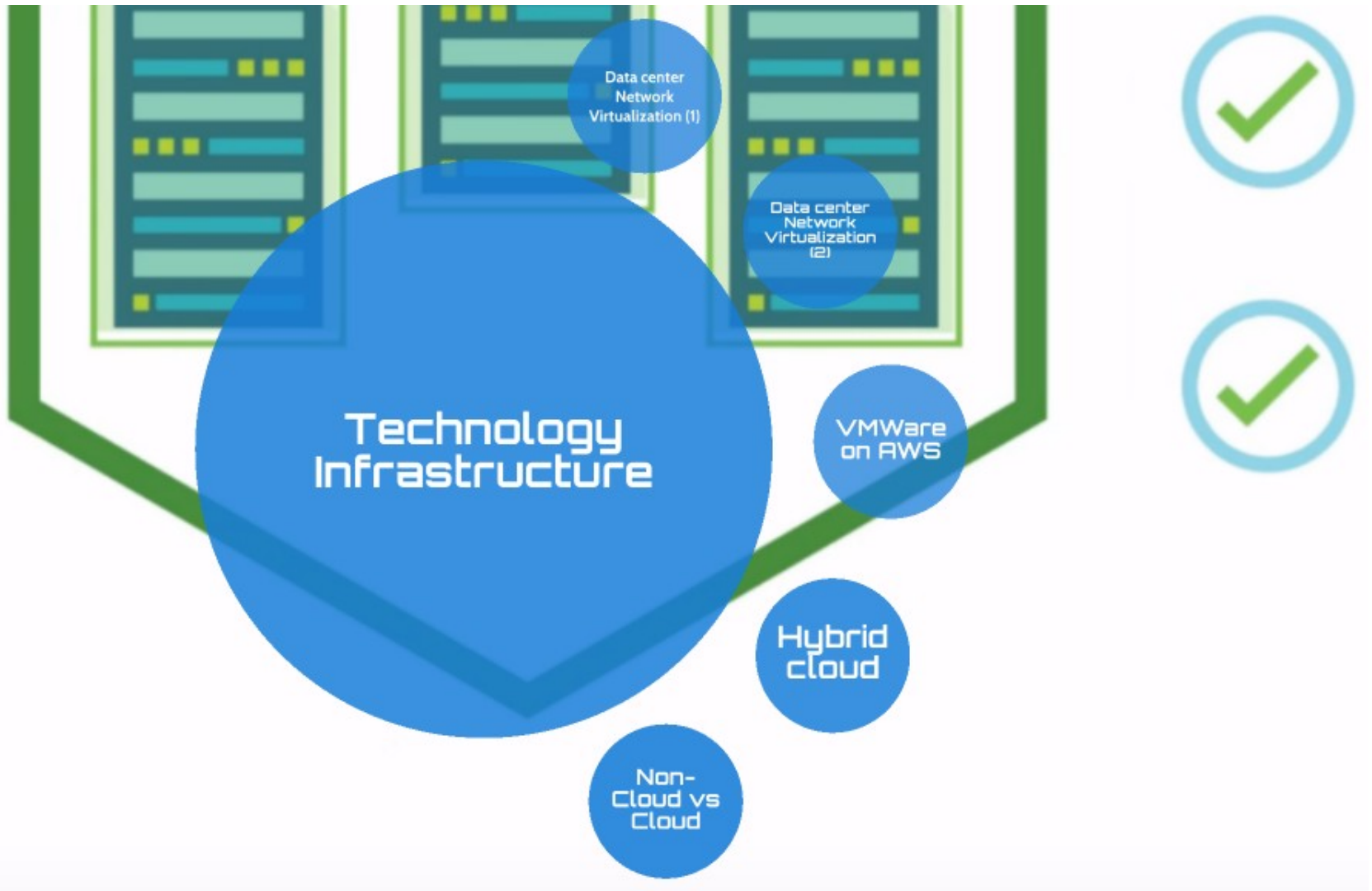
Disadvantage and Threats

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✓ Feasible

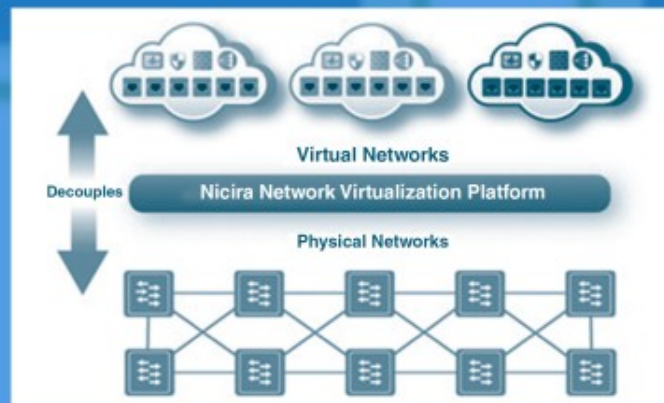
✓ Affordable

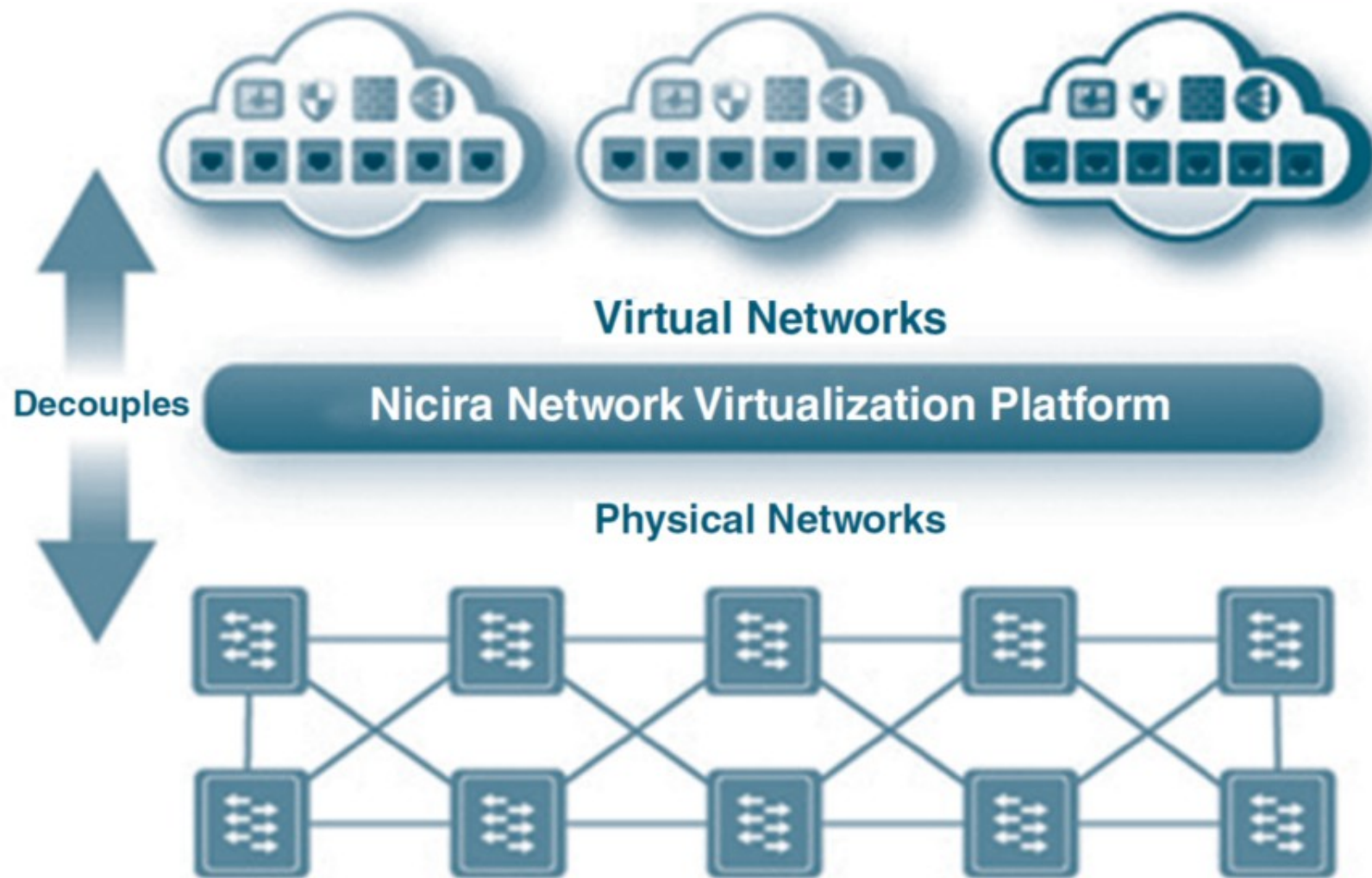
✓ Efficient



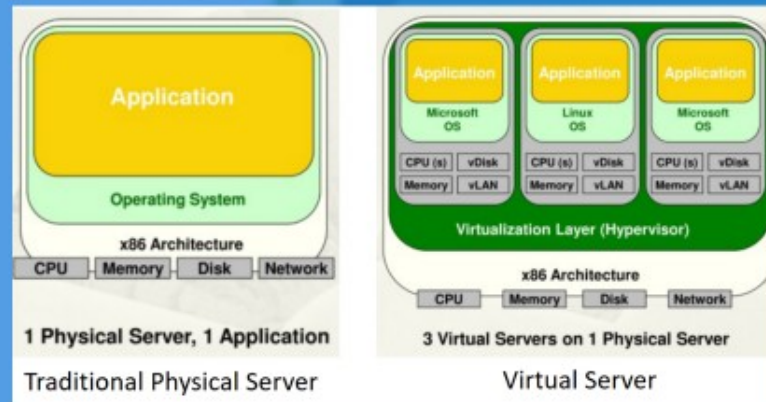
Data center Network Virtualization (1)

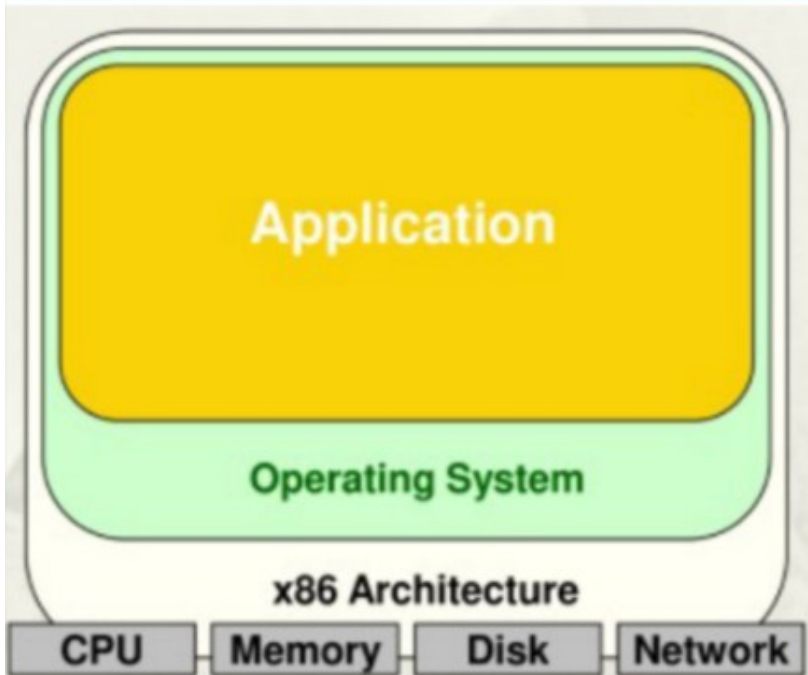
De-couple Virtual Networks
and Physical Networks





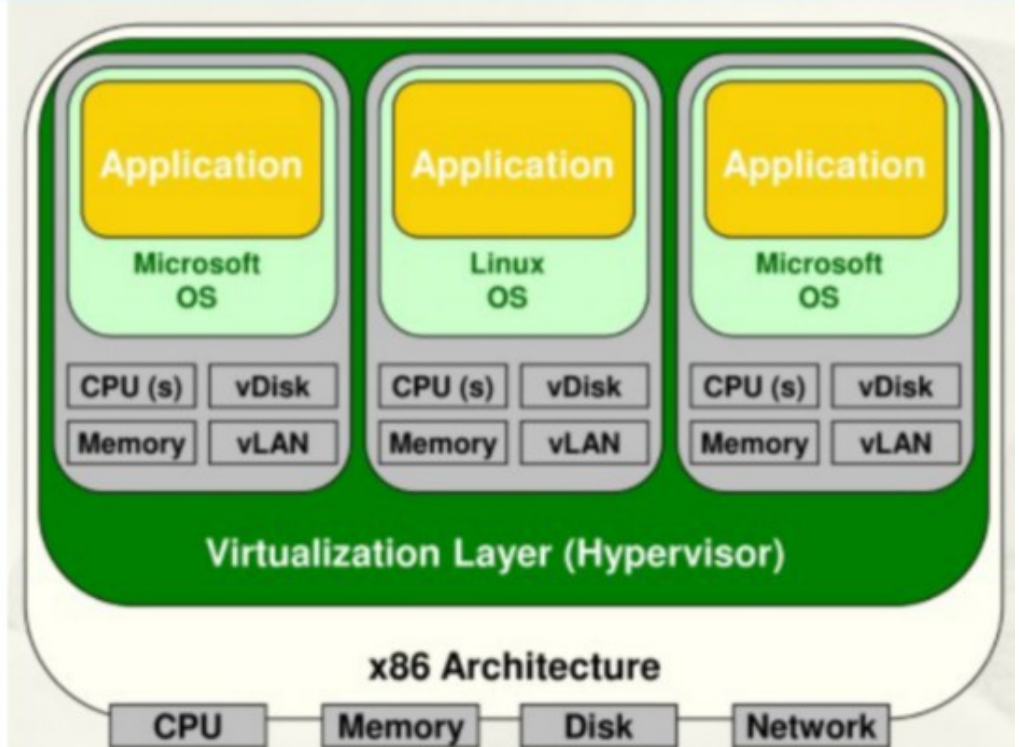
Data center Network Virtualization (2)





1 Physical Server, 1 Application

Traditional Physical Server



3 Virtual Servers on 1 Physical Server

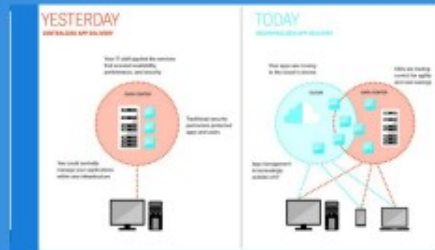
Virtual Server

VMWare on AWS

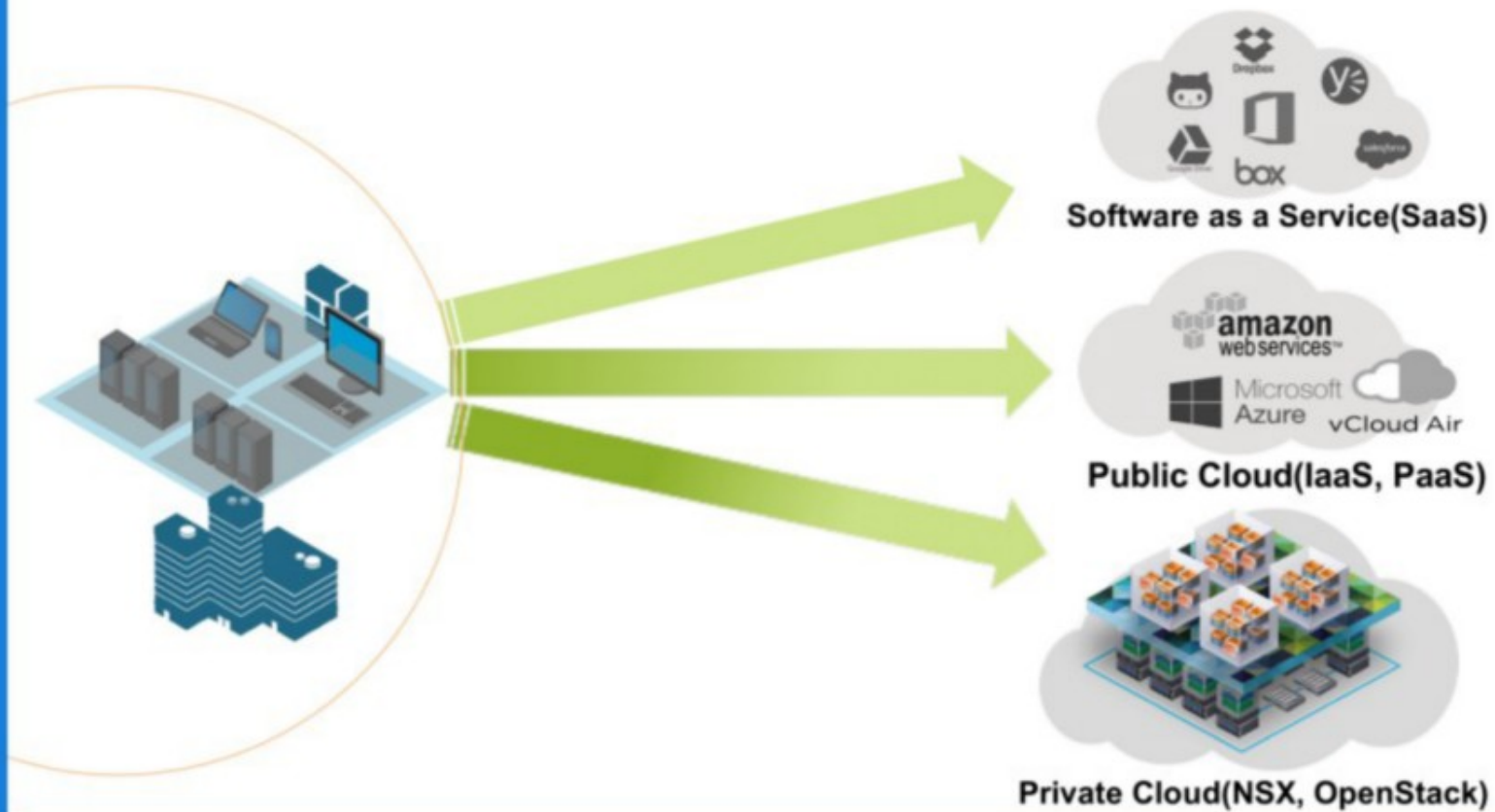




Hybrid cloud



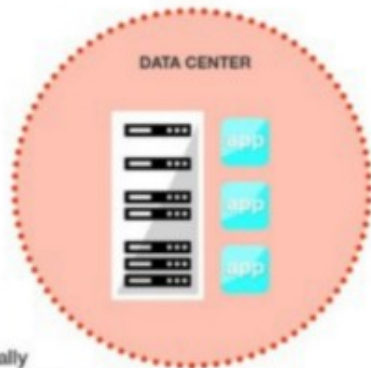
EXPANDED DATA AND APPLICATION LOCATIONS



YESTERDAY

CENTRALIZED APP DELIVERY

Your IT staff applied the services that ensured availability, performance, and security



Traditional security perimeters protected apps and users

You could centrally manage your applications within one infrastructure



TODAY

DECENTRALIZED APP DELIVERY

Your apps are moving to the cloud in droves

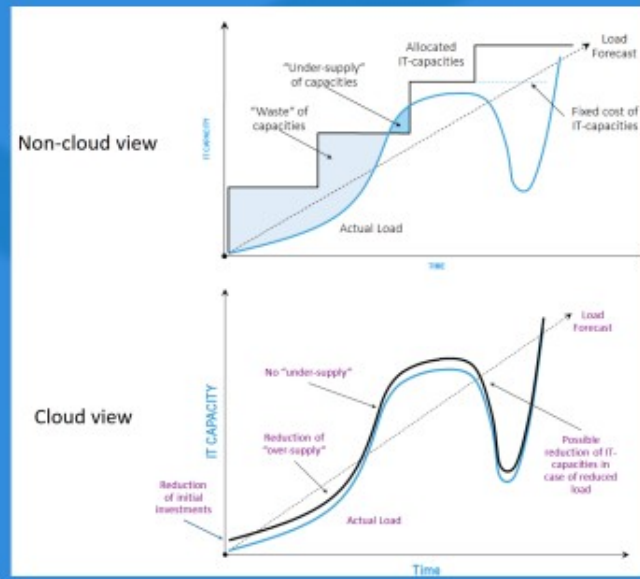
CIOs are trading control for agility and cost savings



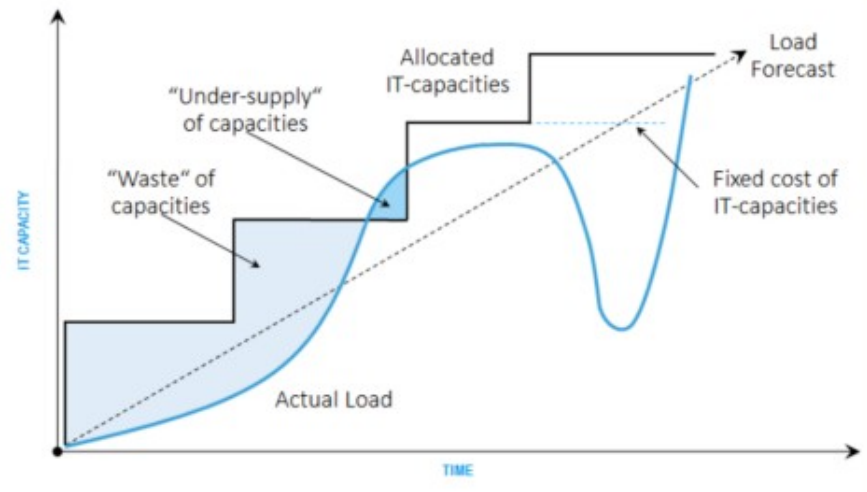
App management is increasingly outside of IT



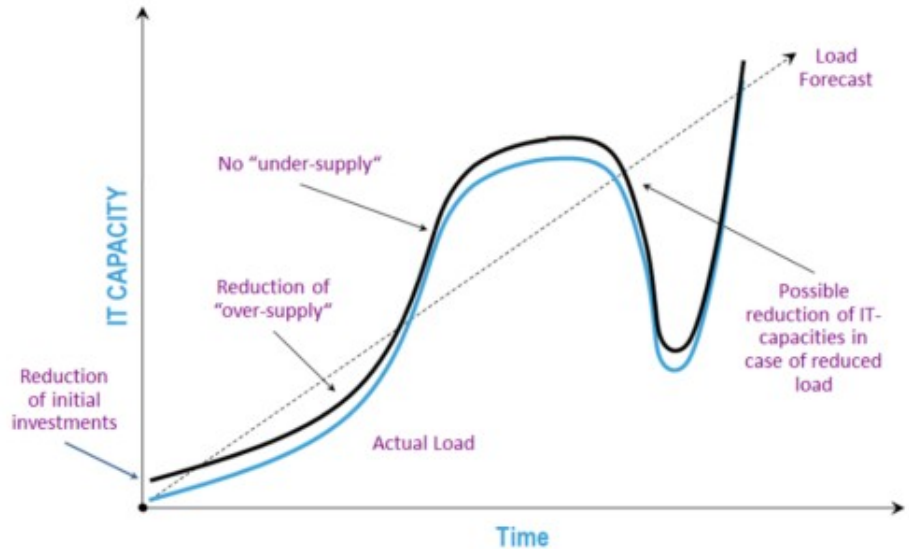
Non-Cloud vs Cloud



Non-cloud view



Cloud view



Cloud computing

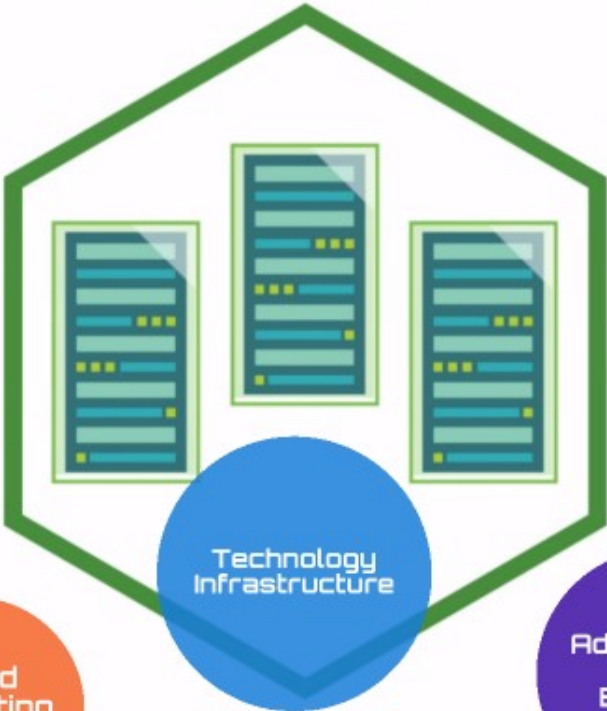


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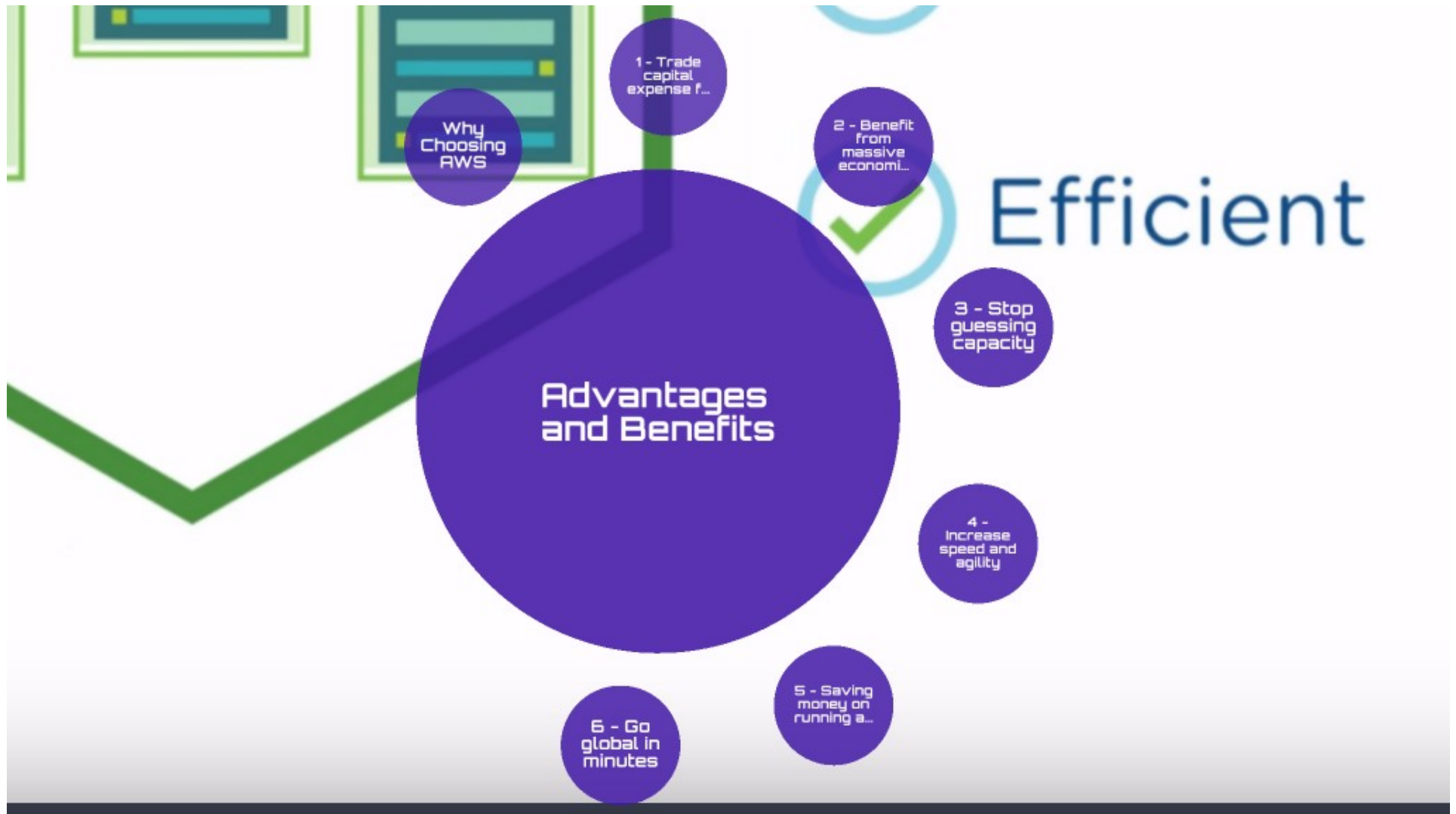
Disadvantage and Threats

Question Time

✓ Feasible

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Why Choosing AWS







1 - Trade capital expense for variable expense

Instead of having to invest heavily in data centers and servers before you know how you're going to use them, you can only pay for how much you consume.



2 - Benefit from massive economies of scale

Achieve a lower variable cost than you can get on your own.

Eff

3 - Stop guessing capacity

Eliminate guessing on your infrastructure capacity needs. With cloud computing, you can access as much or as little as you need, and scale up and down as required with only a few minutes notice.



4 - Increase speed and agility

New IT resources are only ever a click away, which means you reduce the time it takes to make those resources available to your developers from weeks to just minutes.



5 - Saving money on running and maintaining data centers

Focus on projects that differentiate your business, not the infrastructure.

6 - Go global in minutes

Easily deploy your application in multiple regions around the world with just a few clicks. Lower latency and better experience for your customers simply and at minimal cost.

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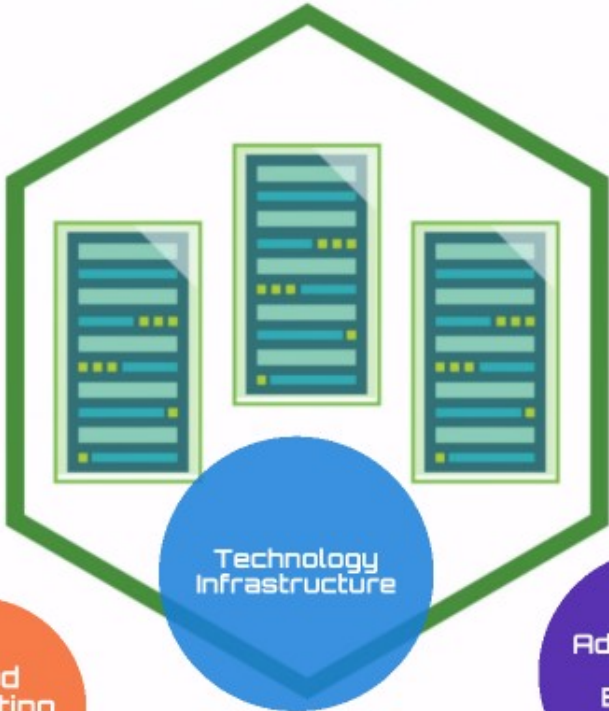


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Efficient

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Cloud
Computing
Risk

Unauthorized
access to
customer
and busine...

Risks
related to
lack of
control

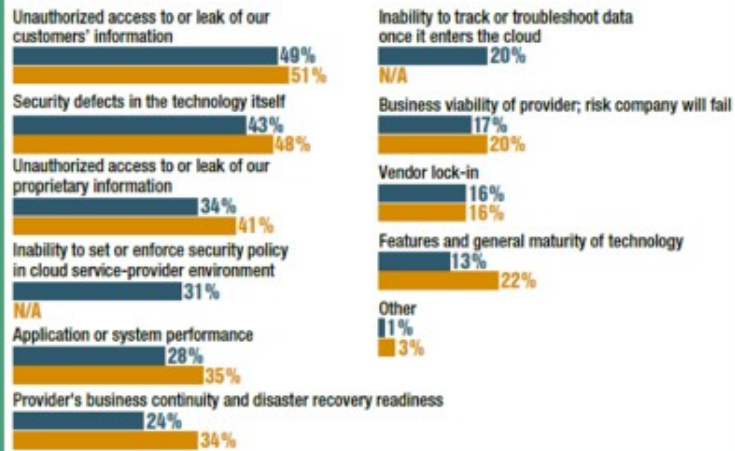
cient

Cloud Computing Risk

Cloud Computing Risks

When thinking about risks related to using cloud services, what are your top concerns?

■ 2015 ■ 2014



Cloud Computing Risks

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Unauthorized access to or leak of our customers' information



Security defects in the technology itself



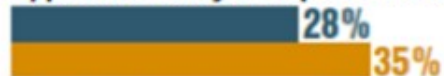
Unauthorized access to or leak of our proprietary information



Inability to set or enforce security policy in cloud service-provider environment



Application or system performance



Provider's business continuity and disaster recovery readiness



Inability to track or troubleshoot data once it enters the cloud



Business viability of provider; risk company will fail



Vendor lock-in



Features and general maturity of technology



Other





Unauthorized access to customer and business data

When a cloud service vendor supplies a critical service for your business and stores critical data – such as customer payment data and your mailing lists – you place the life of your business in the vendor's hands.



Risks related to lack of control

When you use a cloud service provider, the vendor is in control. You have no guarantee that the features you use today will be provided for the same price tomorrow. The vendor can double its price, and if your clients are depending on that service, then you might be forced to pay.

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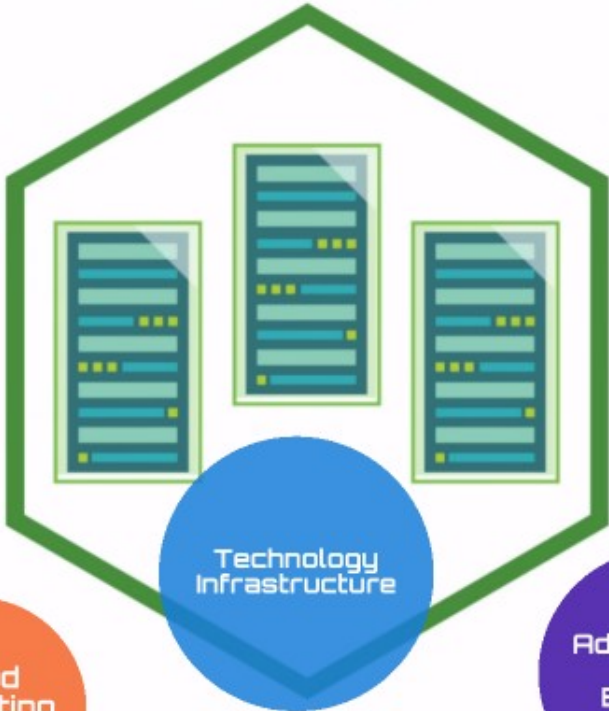


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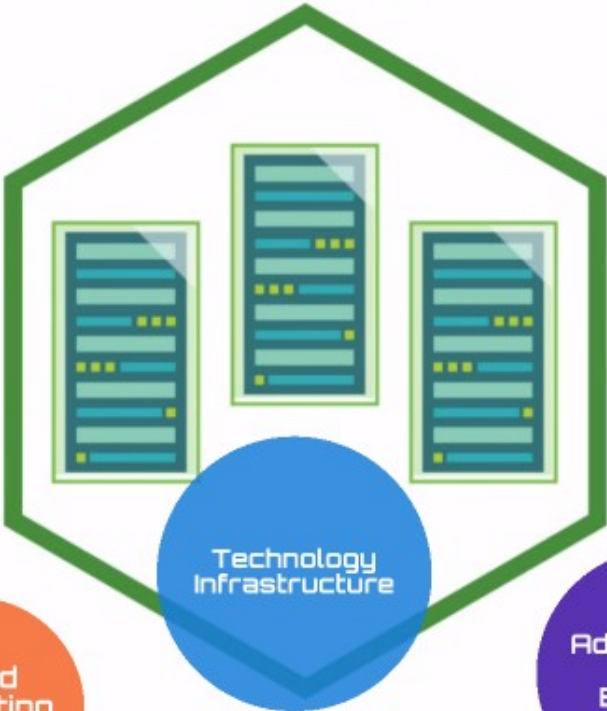


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