Embracing the Cloud

The New Normal

Open>Insights^{**}

November 2021

Agenda

1	History of Cloud Computing
2	Migration Failures & How To Avoid Them
3	Key Considerations & Types of Cloud
4	Case Studies
5	About Open Insights

Agenda

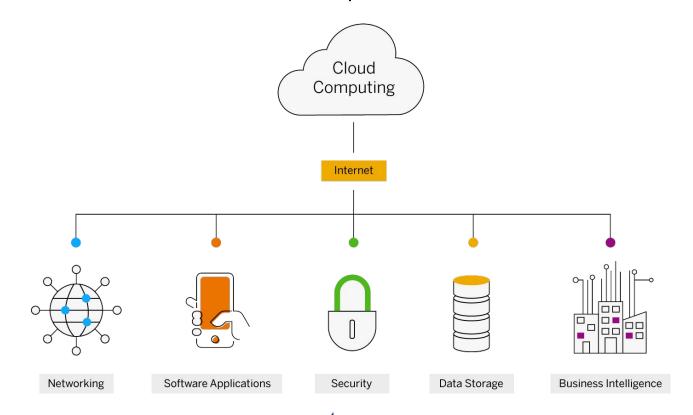
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On-demand availability of computer system resources especially **data storage and**

computing power, without the need of direct active management by a user

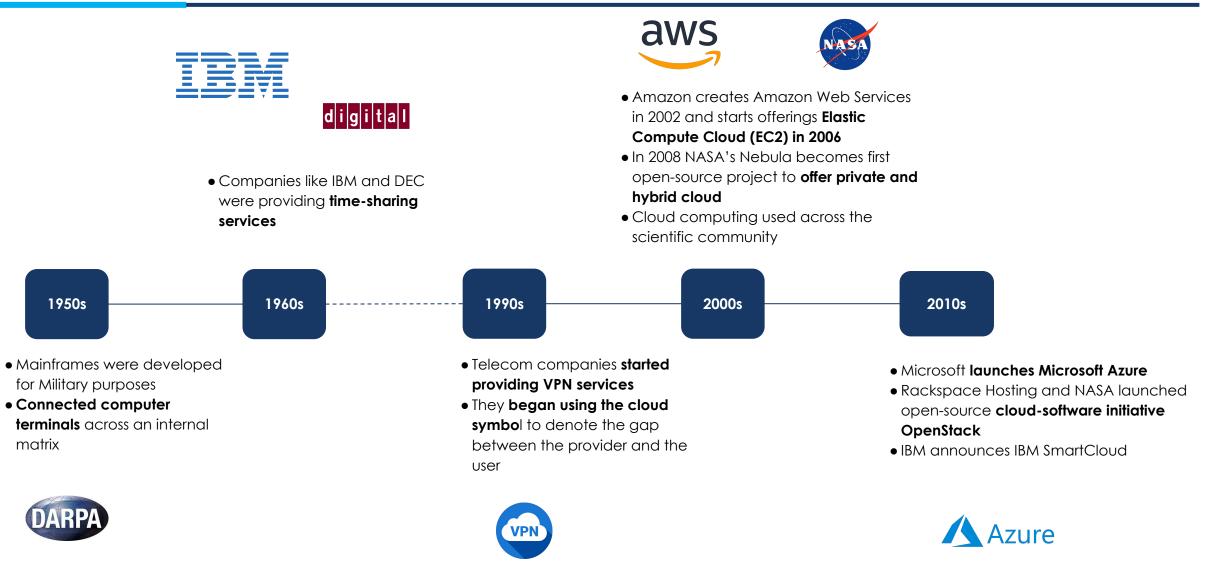
- Wikipedia





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History of Cloud Computing



Cloud Computing evolution over the last 2 decades

THEN Early 2000s	NOW
New technology, lack of awareness on how to control cost	Easy to use tools and settings to control and minimize cost
Manual coding required	Out of the box capabilities such as data governance, AI/ML etc.
Fear over cloud provider transparency	General awareness on usefulness of cloud computing
Limited availability	Extensive resource scalability and high availability
Heavy manual work for building solutions	Pre-built and ready to use solutions available
Integration with any unsupported tools to built from scratch	Robust cloud partner ecosystem enabling momentum and scale

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Statistics For Failed Data Migrations

85% of Big Data Projects fail

 73% of tech leaders expect their cloud migrations to take more than one year to complete, with 43% expecting the process to last more than two years.

 62% of companies said their cloud migration project was harder than expected, and 55% went over budget.

- Velostrata/Dimensional Research



Failed Data Migrations Case Studies



A massive migration initiative to move from mishmash of legacy apps to modern suite of applications on public cloud became a disaster

More than **\$1.5 Billion** in losses

CHASE 🗘

Chase Bank's initial attempt at implementing Big Data ended up in a big failure



Microsoft's initial attempt to create a Hadoop alternative (codename Dryad) failed miserably. They enhanced it later as CosmosDB on Azure



- Failed project
- Fixing technical issues
- Waiving overdraft and other fees
- Providing increased interests rates to compensate customers

More than **\$100 Million** in write-offs with initial BigData Effort

More than **\$500 Million** in write-offs in 2010

Reasons For Cloud Migration Failures

Leadership Misalignment

C-Suite fails to effectively communicate crucial strategies and priorities, leading to project failures and money wastage

Lack of Skills

30% of big data project failures are due to lack of experience build data platforms

Ambitious Intentions Lacking Execution

Companies often counterproductively overreach to become data driven in too short a time

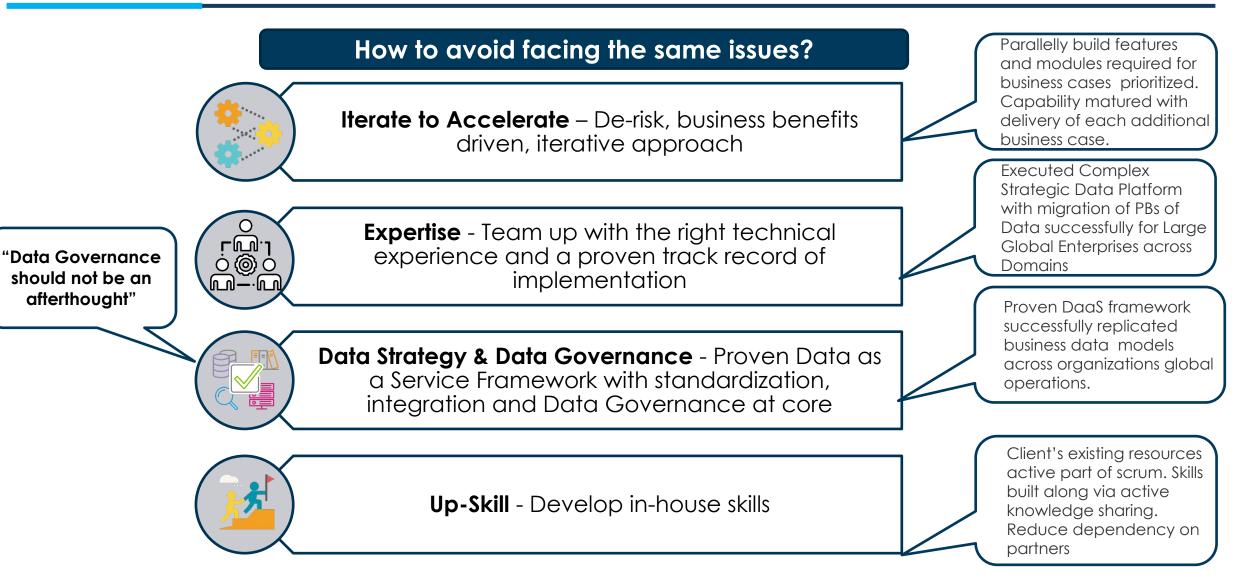
Hopeful Outlook

Missing foundational capabilities and immature operating model leading to redundant efforts and costs

Free for All

Companies do not understand importance of Data Governance

What To Avoid While Migrating?

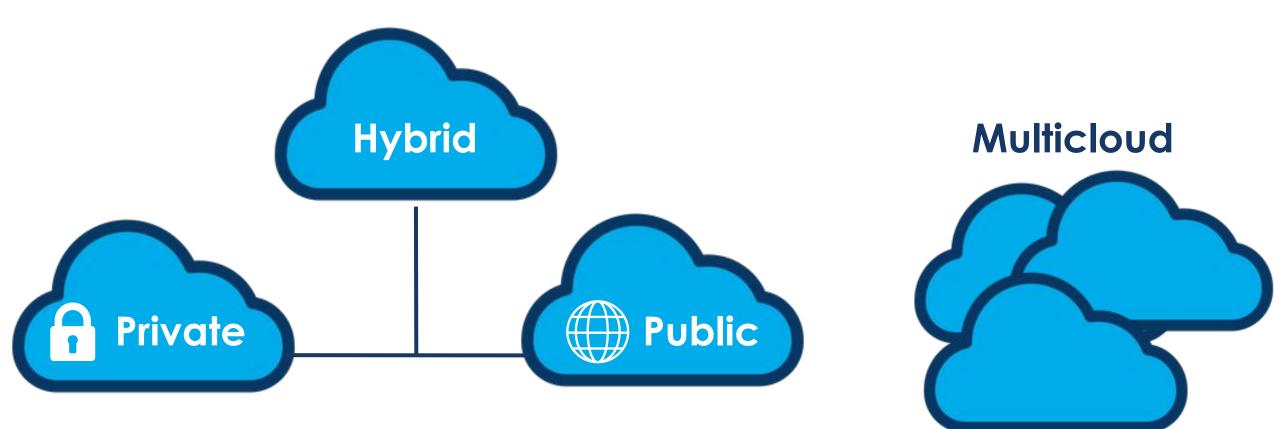




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Infrastructure Stack	 Understand compatibility with different cloud providers Analyse cost of migrating tools 	Service Availability	 Understand different customer services Find out location of cloud provider
Workload Analysis	 Understand memory and storage needs Compute requirements 	Security and Compliance	 Determine methods for securing data while at rest and in motion Understand regulations on hosting data on cloud
Data Protection Requirements	• Determine what data will be on the cloud	Support and Ecosystem	 Understand system interoperability Consider support provided by the service provider
	Team Skill Set resc	cide on training existing purces or scouting the m new talent	

Types of Cloud Computing

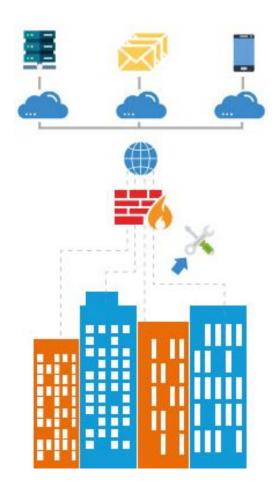




Created by IT Infrastructure not owned by the end user

Typically run off-premise at provider locations

Partitioned and redistributed between multiple tenants





Cloud environments solely dedicated to an end user or user group

Could be run on-premise with a service provider or off-premise

Systems provide services to the sole end user or user group

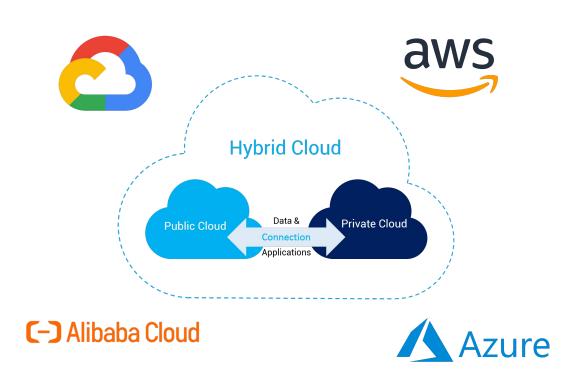




Cloud environments that are based on the combination of at least 1 private and 1 public cloud

Could be run on-premise within the organisation, on-premise or off-premise with a service provider

All the systems are managed as a single environment



Cloud environments that are based on the combination of more than 1 cloud vendor (including private)

Enables enterprises to choose the optimal cloud resource as per the needs of applications and workloads

All the systems are managed as disparate systems and need additional software to orchestrate between the multiple clouds

C-) Alibaba Cloud

CRM (best price)

CRM (best price)

Finail (best price)

Storage (best price)

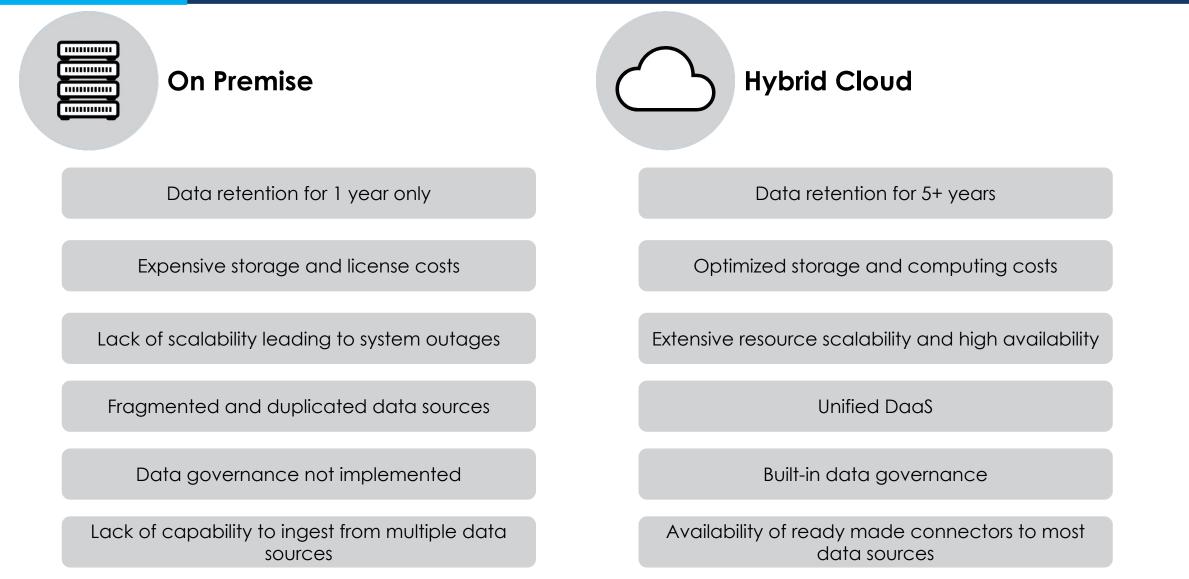
Storage (best price)

Condectional

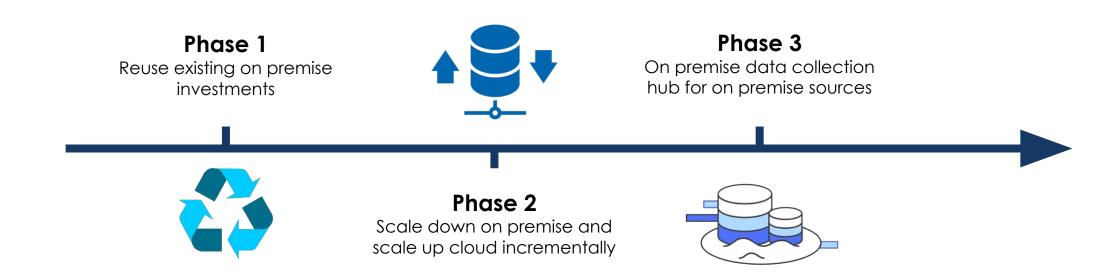
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Cloud Migration for Multinational SEA Telco



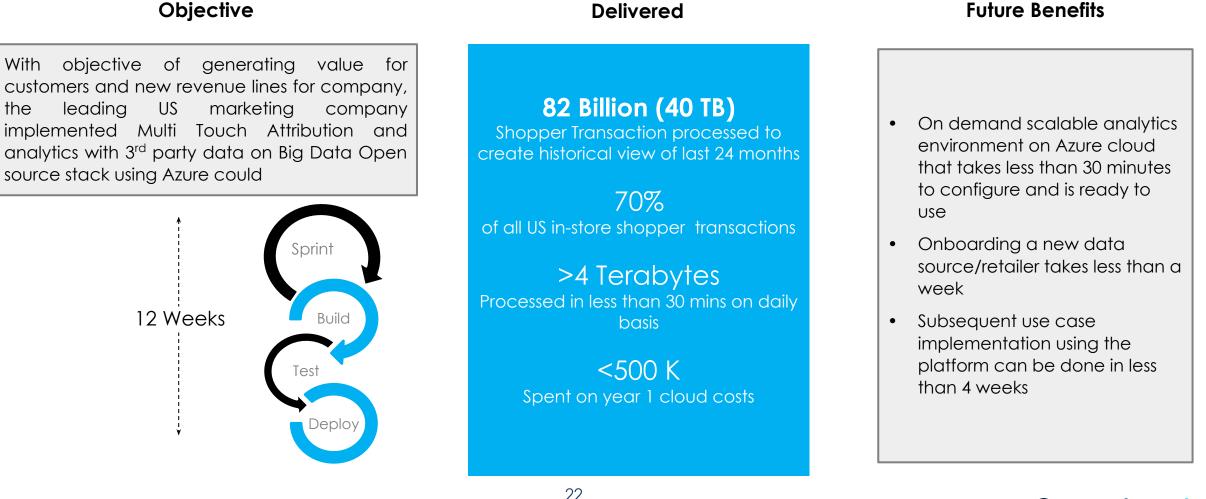
Cloud Migration Approach



- Ability to scale quickly on the cloud is definitely a benefit, however it comes with a price and associated risk
- As migration to cloud continues there will be a reduction in the maintenance staff, reducing cost over time
- Ability to rollout additional features and capabilities faster due to readily available tools and solutions
- Going in a phased, incremental approach, will give you the opportunity to
 - Assess your scale needs
 - Test your risk appetite
 - **Reconfirm** the cost spend

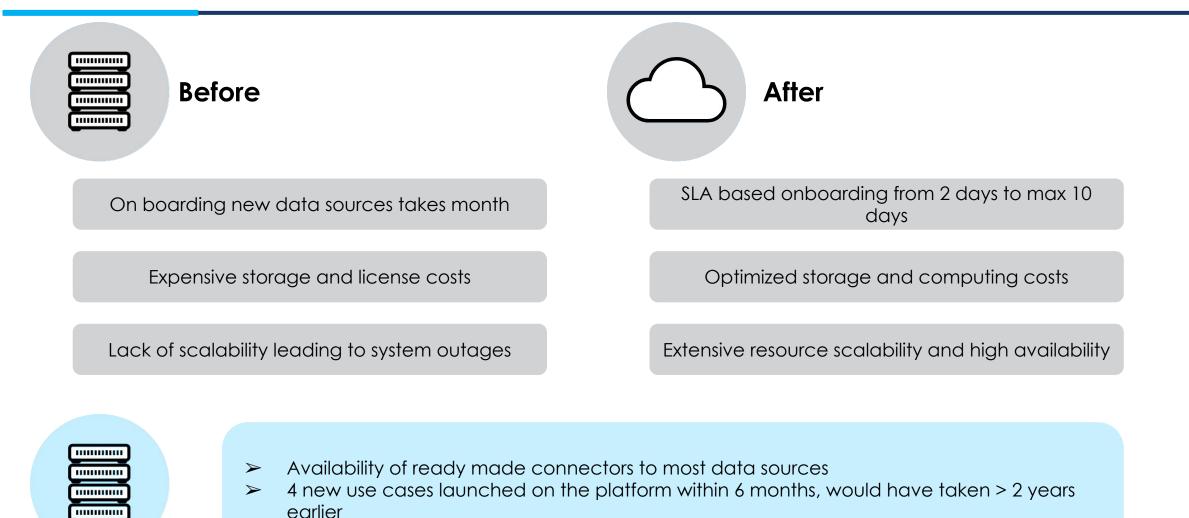
Data Migration and Platform Implementation

Strategic Data Platform on Azure in 12 weeks at 1/3 of leading competitor's cost that delivered 2 high value use cases at launch



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Embracing Cloud at US Retail Marketing Company



 \succ Predictable costs. Saving of upto \$2.5 m annually

Outcome



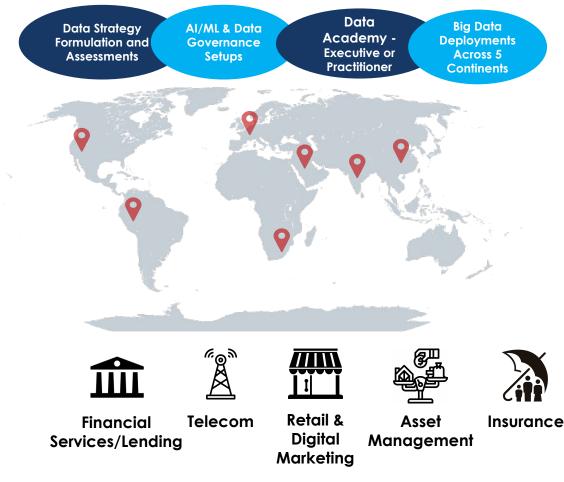
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About Open Insights

We help our clients **de-risk** the data modernization journey, and understand, optimize, monetize customer **INTERACTIONS** by enabling them to:

- Drive Revenue & Cost Reduction through Data & Insights
- 'Plug and Play' BigData platform
- Business-driven ANALYTICS & AI SOLUTIONS
- By developing a Data Strategy that enables a
 Data-as-a-Service powering Advanced Analytics
- Ensuring that Data is managed as an Enterprise Asset rather than a liability



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