AdvizeX

Solving Scalability and Disaster Problems with Cloud

JOE CLARKE

About Me



Director of Cloud Architecture

Focus Expertise

Public, Private and Hybrid Cloud Offerings, End User Computing









Location

Cleveland, Ohio

Qualifications

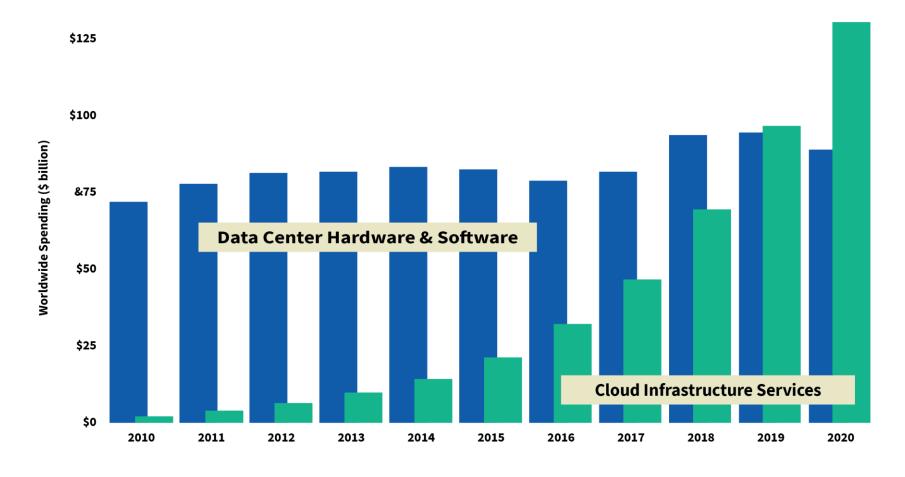
Joe brings over 12 years of architecture, planning, and implementation expertise in the hybrid cloud, virtualization space and end user computing spaces. Prior to solution architecture at Advizex, Joe worked in house at a large bank and hospital in Northeast Ohio.

Certifications

- Azure SA Expert
- AWS SA Associate
- VCDX6-DCV
- VCDX5-DTM
- MCSE, MCITP
- MCTS-SCCM

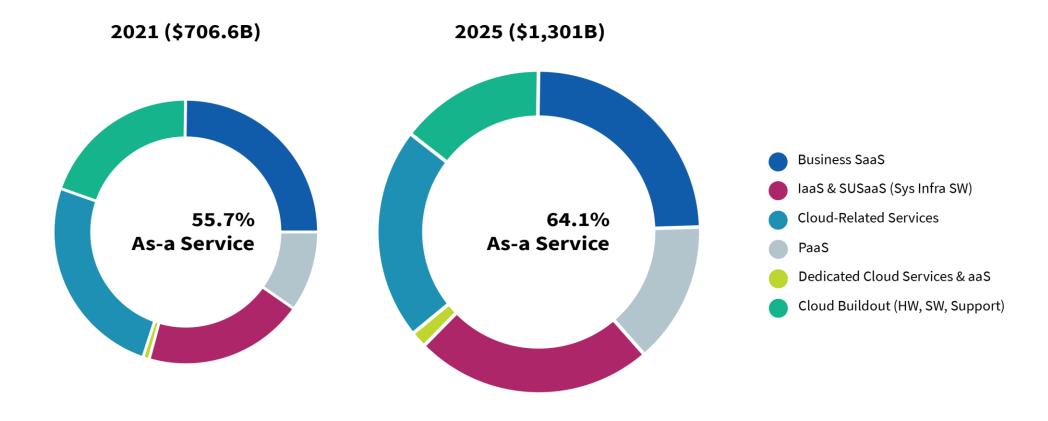
- Joe is one of 8 global (5 US) dual VCDX certified professionals with an EUC specialization
- Successfully planned, designed, and implemented multiple large-scale cloud migration, virtual desktop and server projects
- Joe has led desktop and server virtualization efforts for numerous organizations
- Deep infrastructure expertise (storage, compute, networking)

Enterprise Spending on Cloud and Data Centers



Source: Synergy Research Group

Worldwide Whole Cloud Outlook





Source: IDC Whole Cloud Forecast 2021-2025: The Path Ahead for Cloud in a Digital-first World, IDC #US47397521, Sept 2021

What Businesses Want: Hybrid Cloud

- Consume IT so it looks and feels like Public Cloud no longer want to do "hardware refreshes"
- "C" Suite Direction not in the data center business
- Secure IT environment
- Build as you grow vs. buy as you grow

What is desired, versus often purchased









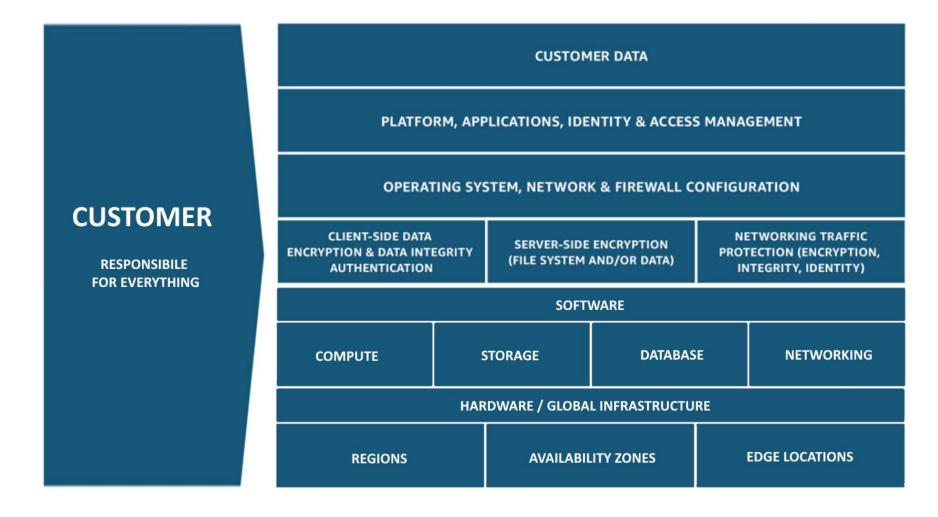


WHAT IS CLOUD?

Cloud computing is a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources that can be rapidly provisioned and released with minimal management effort or service provider interaction.

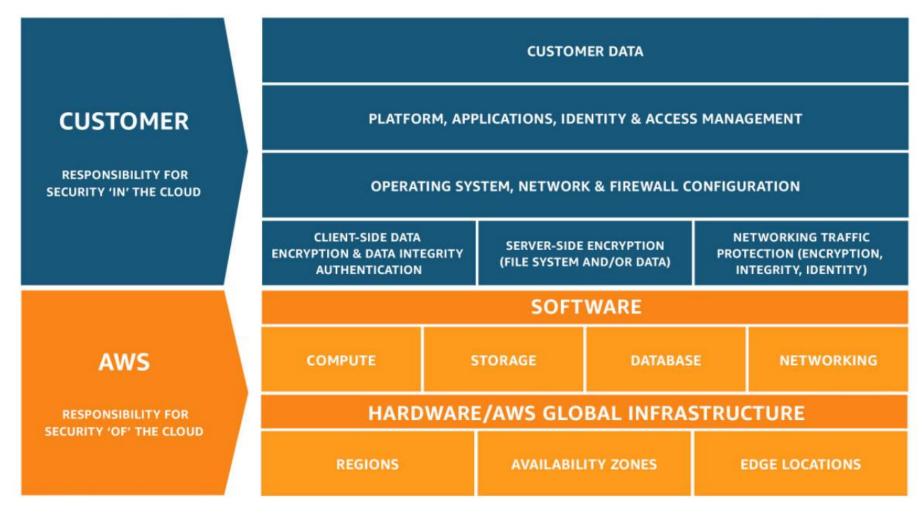


The Customer Only Responsibility Model





The AWS Shared Responsibility Model



essential adjective

es·sen·tial | \ i-ˈsen(t)-shəl 🜒 \

Definition of essential (Entry 1 of 2)

- 1 : of, relating to, or constituting <u>essence</u>: <u>INHERENT</u>
- 2 a : of the utmost importance : <u>BASIC</u>, <u>INDISPENSABLE</u>, <u>NECESSARY</u>
 // an essential requirement for admission to college

CHARACTERISTICS OF CLOUD



- Broad network access
- Resource Pooling
- Measured Service
- Rapid elasticity
- On-demand self service

Private Cloud

The cloud infrastructure is provisioned for exclusive use by a single organization comprising multiple consumers (e.g., business units).

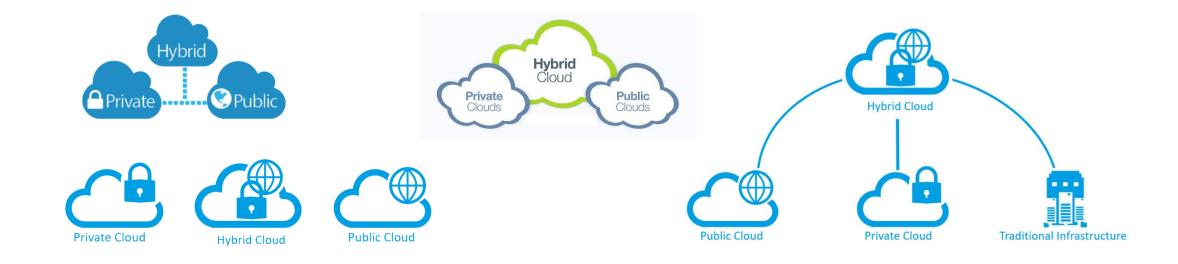
Public Cloud

The cloud infrastructure is provisioned for open use by the general public. It may be owned, managed, and operated by a business, academic, or government organization, or some combination of them. It exists on the premises of the cloud provider.

Hybrid Cloud

The cloud infrastructure is a composition of two or more distinct cloud infrastructures (private, community, or public) that remain unique entities, but are bound together by standardized or proprietary technology that enables data and application portability (e.g., cloud bursting for load balancing between clouds).

HYBRID CLOUD





Unified Operating Model

Private Clouds



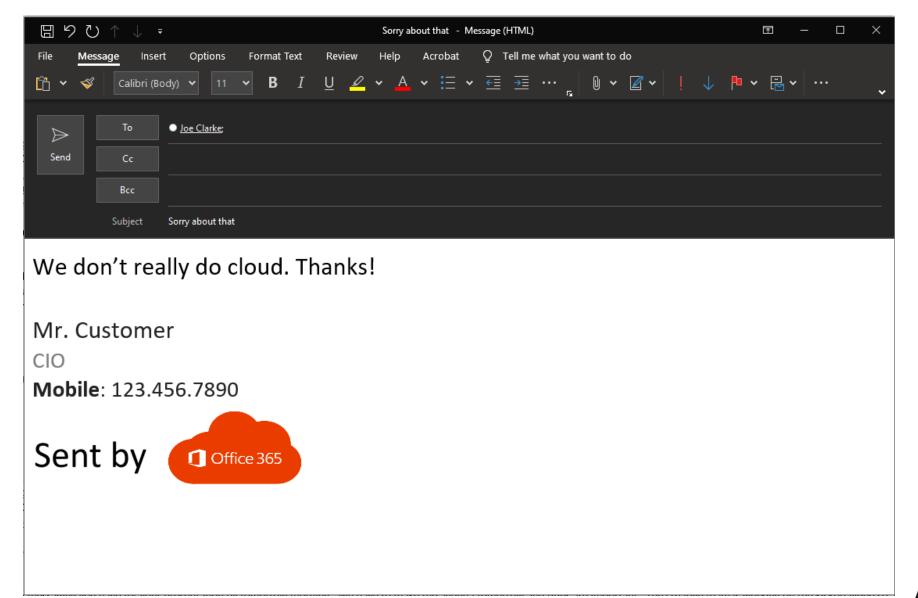
Public Clouds

Seems obvious, but...

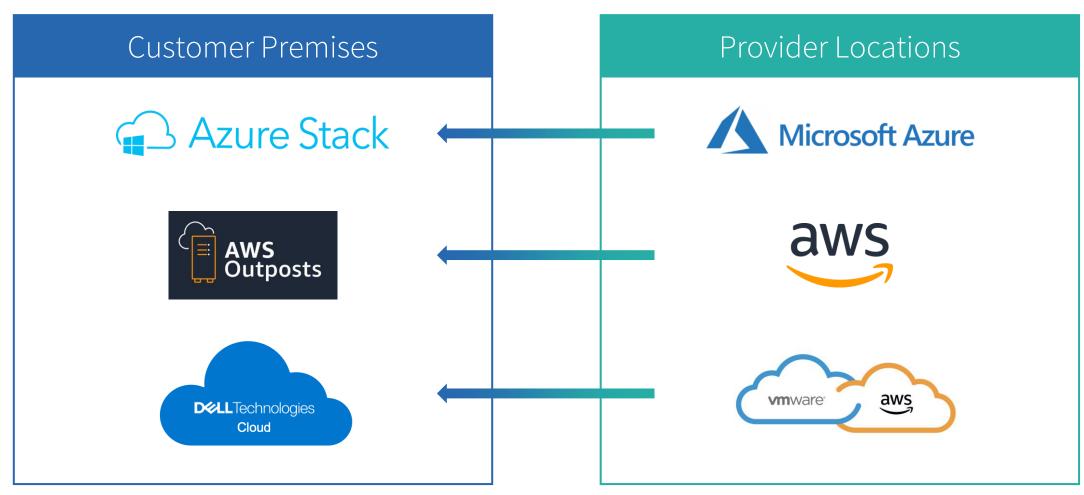


Scaling out... without scaling back in... is growth.

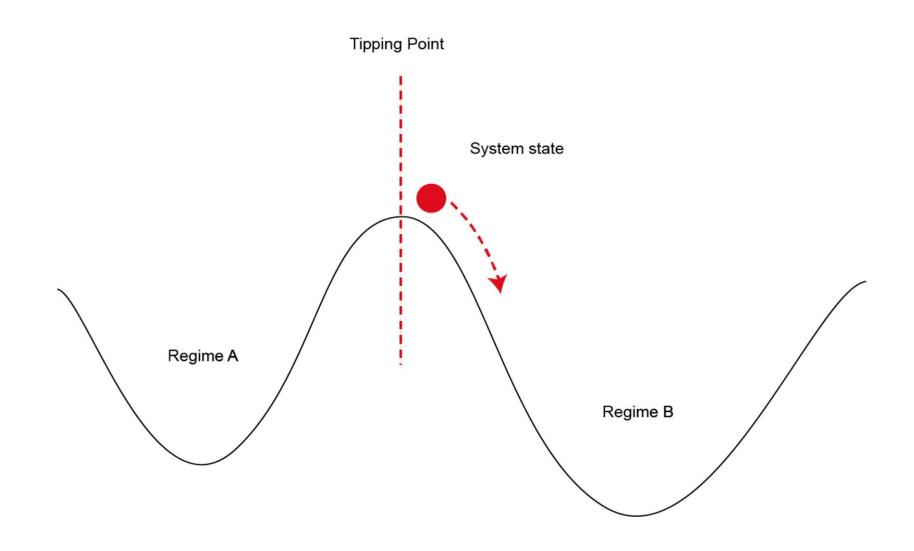




Public Cloud OEMs are also moving in the direction of hybrid so they can exist in onpremises datacenters when the use case is right.



What are the tipping points for leveraging hybrid cloud?



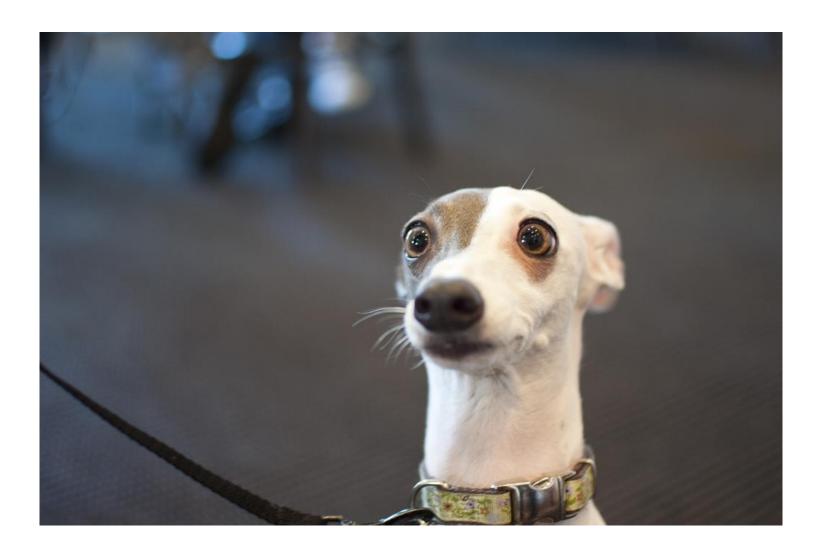
What are the tipping points for leveraging hybrid cloud?

- Executive mandate
- Hardware lead time becomes untenable for the business.
- A need to quickly service a region without an existing datacenter footprint
- Continued flexibility to expand to new regions quickly
- Desired services are not currently available in the private cloud catalog and can't be added quickly
- Scale and Descale
- Availability requirement makes leveraging cloud a better option
- The SaaS offering makes more sense
- The applications demand it
- Lack of expertise to build a private cloud

So how is Advizex helping solve problems with cloud today?

- Matching the "grid power" vs "generator" IT use cases to the right problem
- Solving the hardware lead time problem with hyper-scalers at the ready
- Enabling true hybrid cloud capability through CMP offerings and our services teams
- Building custom compute light, storage dense DR offerings
- Optimizing configurations by helping move to well architected
- Managed services to ensure cloud providers are fulfilling their duties
- Modernization of collaboration tools to work from anywhere securely
- Building applications in cloud native formats to be portable
- Untangling the complexity of the cloud bill and helping optimize costs

The first time an out-of-control cloud bill shows up





Unified Operating Model

Private Clouds



Public Clouds











Closing Comments

- Exciting Change is omnipresent
- Challenging Evolve vs. Transform
- Story Problems These excite us