
AWS
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HYB308

The best AWS solutions and services for your hybrid cloud and edge use cases

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Cloud continuum

REGIONS



METRO AREAS & TELCO NETWORKS



ON PREMISES



REMOTE & LIMITED CONNECTIVITY LOCATIONS



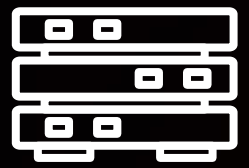
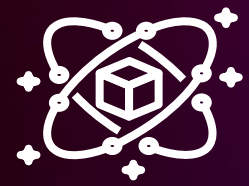
SMART DEVICES



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Recap of the hybrid edge services

On-premises, metro centers, and the CSP edge

	AWS Outposts	AWS Local Zones	AWS Wavelength
			
Overview	Fully managed AWS infrastructure delivered to virtually any customer datacenter or location	Places compute, storage, database, and select AWS services closer to where your end users are located	Embedded in CSP networks to extend AWS infrastructure, services, APIs, and tools
Use cases	Migration, local critical applications, and data residency	Migration, low latency, local data processing, and data residency	Low latency, high QoE, and local data processing
Service model	Expandable capacity in user's data center, collocated, and on-premises locations	Scalable capacity in AWS-managed and operated facility	Scalable capacity in CSP data center managed and supported by AWS

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Use case











Distributed/latency-based

Improved performance for end users

- Gaming
- Social media
- Telecommunications
- Mobile



Location-based

Data residency

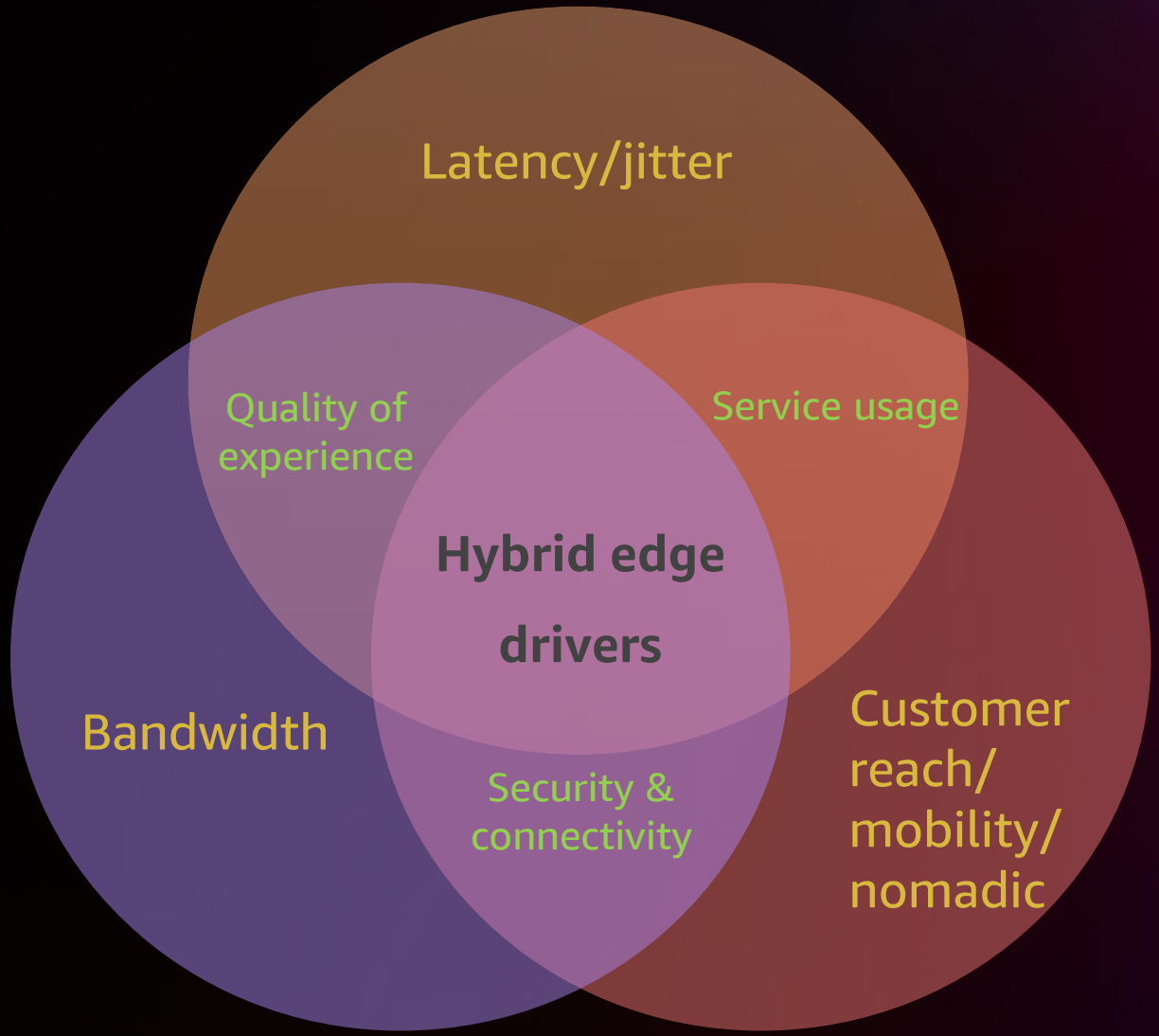
- Data regulation
- Financial services
- Public sector

Enterprise migration and modernization

- Two-step migrations
- Modernization and innovation initiatives

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Selecting the best location/service to run workload



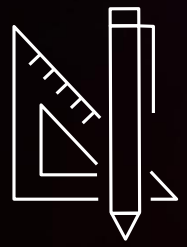
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Proposed approach



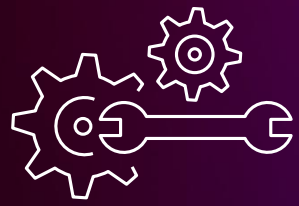
Use case definition

- Define edge use case
- Capture key needs and business drivers
- Review alternatives and business drivers



Use case architecture

- Define service architecture
- Whiteboard architecture



Analysis

- Business drivers
- Design considerations
- Enhancements

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Workshop

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Use case suggestions for discussion

Data residency

- Process data locally
- Regulations dictate that data and infrastructure reside in specific location
- Contractually
- Infosec or other reasons

Low-latency use case

- M&E use cases
  - Contribution
  - Remote production
  - AR
  - Distribution
  - Sports IoT
- Remote operation
  - AGV
  - Drones
  - Teleoperations
  - Robots
- AR/VR
  - Digital twins
  - Location-based Entertainment
  - AR

Hybrid cloud

- Local data processing
  - Modernize application
  - transcoding, filtering, caching, and alerting applied at the edge
  - Bringing AWS compute to large datasets
- Hybrid cloud
  - Modern workloads while storing and processing data on-premises

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