

Benefits of Cloud Computing		Supporting AWS Infrastructure		
Elasticity	Ability to acquire and release resources as you need them.	AWS Personal Health Dashboard	Monitors alerts when there are issues affecting AWS.	
Reliability	Ability to deploy resources in different regions and availability zones.	AWS Trusted Advisor	Tool to check your usage with AWS best practices.	
Agility	Go global in minutes.			
Types of Cloud Computing		Trusted Advisor Recommendations		
Infrastructure as a Service (IaaS)	Full control of server in the cloud.	Cost Optimization		
Platform as a Service (PaaS)	Deploy custom services to the cloud.	Performance		
Software as a Service (SaaS)	Already made services in the cloud.	Security		
		Fault Tolerance		
		Service Limits		
Cloud Computing Deployment Models		AWS Support Plans		
Public Cloud	Provider like AWS, GCP, or Azure	Support Plan	Email	Chat
Private Cloud	Private data center using something like VMWare.	Basic		Phone
Hybrid Cloud	Combination of using Public Cloud and Private Cloud.	Developer	Yes	
		Business	Yes	Yes
		Enterprise	Yes	Yes
AWS Global Infrastructure		Support Response Times		
AWS Regions	Clusters of data centers in specific geographic regions.	Incident Type	Developer	Business
AWS Availability Zones	One or more data centers.	General Guidance	24 Business Hours	24 Hours
AWS Edge Locations	High availability for Amazon CloudFront CDN and Amazon Route 53 DNS.	System Impaired		24 Hours
		Production System Impaired	12 Hours	12 Hours
		Production System Down	4 Hours	4 Hours
		Business Critical System Down	1 Hour	1 Hour
Cloud Economics		AWS Well Architected Framework		
AWS TCO Calculator	Compare costs of your data center versus moving to AWS.	Operational Excellence		
AWS Pricing Calculator	Calculate the monthly cost of AWS services.	Security		
AWS Cost Explorer	Review current costs, predict future costs, and provide recommendations.	Reliability		
		Performance Efficiency		
		Cost Optimization		



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Shared Responsibility Model

Customer	AWS
Customer Data	Software
Platform, Applications, Identity & Access Management	Compute, Storage, Database, Networking
Operating System, Network and Firewall Configuration	Hardware
Client Side Data Encryption & Authentication	Regions, Availability Zones, Edge Locations
Server Side Encryption	
Network Traffic Encryption & Identity	



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