	d Balancing		AWS Pricing			
Load	Distributes app	lication traffic	Free Tler			
Balancing Service	across services		Always - do not expire.	Free for the first 12 months	Trials - Short term offers	
won't get overloaded, and that the traffic is spread out.			Always Free is available to	With more data to work with	For specific services	
Services to	run containerize	d applications	everyone.			
ECS - Elast Container S		- Elastic emetes Service			free for the first 12 months	
AWS Cloud	Resource Provi	sioning	Pricing Mode	Pricing Models:		
AWS Manageme Console	Line Interface	Software Development Kits	Pay for what you use:	Pay less when you reserve:	Pay Less with Volume- Based Discount	
Web GUI	Automate API	To access and manage AWS			When You Use More	
	requests, services, actions	services through an API	No need for licensing	Requires a commitment for future	Pricing per unit gets lowe when you	
Software Develo-	to access and	The API is fitted to the	agreem- ents.	consum- ption.	cross a threshold.	
AWS progra services. langua		platform or programing language that		This option is for those wh know that they need the resources in the future.		
AVAC Cloved	Provision Servi	you use.	Cost Explorer:			
			To visualize cost and usage.			
code and co	Elastic Beanstalk onfiguration setti ad balancing Au health monitorin	ngs to: Adjust tomatic scaling	Cost Explorer has a web- based	Filters and groups help you t drill down to find insights.		
With AWS CloudFormation, you can treat your infrastructure as code build an enviro- nment by writing lines of code			dashboard. The Pricing Calculator lets you create a cost estimate for the use of AWS resources			

A container for your AWS accounts.

comes with an organization root user by default. It allows you to manage permissions of your organization's accounts.

Machine Artificial Intell-Serverless Learning igence - Al Applic-ML ations SageMaker Service to build In AWS, reduces voice and text you can the develochatbots run the pment time Amazon Lex serverless and Service that appliccomplexity can convert text ation with of ML. to speech a service called Amazon AWS Transcribe Service that Lambda. can discover text patterns -Amazon Comprehend Service that can detect potential fraud activities online - Amazon Fraud Detection

Cloud Adoption Framework Business People Governance Platform

that business and IT objectives meets the invest- ment.	requir- ements, and roles in your organi- zation	the risk. And simultaneously, to maximize the business	deploy new cloud solutions.	the driver at its congration of the congration o	elpbywsines an ape ratio yommeet the zeoexpect-	scode 1. oMsake eCode	0. Deploy VSI 1. Deploy code 2. Operate Servers	Store Block =< 17.6 terabytes	Object Store Object <= 5 tera	•
Cloud Migra	ation Strate	value.		AWS netw	orkina				Data does not s degradation, or	
			D			e convice that	lete you	mance	a very long time	
Rehosting	Replat- forming	Refact- oring	Repurc- hasing	Virtual isolate your AWS res			Data can	Data can not be modified, unless re-uploaded		
shift. tinker app		Changing	SAAS	Ariyate Cloud	an isolated network. Removing unnece- Ideam raffic can be allowed		modified			
		applic-	from	Cloud requiring restauret						
	and shift.	ation founda-	tradit- ional	Gialgway	taggaryi amic can be allowed		Database Migration Service - AWS DMS			
Sinc			model	baferal reigration	Used to access private		Helps move data between a source database and a target database.			
				Gateway	rosouro	35 11 1110 11 0		Monitoring s	and Analysis	
Severless a	and Severs			AWS	Dedicate	ed private co	nnection			
Containers	AWS Lambo		VS EC2	Direct Connect	betweer VPC	n a data cente	er and	AWS CloudWatch	AWS CloudTrail	Trusted Advisor
Let you	et you Deploy Code Provides		Subnet	A section of VPC		To monitor	Logs	-		
package for building virt code in a and maintain ser single apps ins		tual rver stances SI).	Access Control Lists (ACL)	A firewall that contro traffic, both inbound outbound.			resources	actions inside your AWS enviro- nment.	account, evaluates, and recomm- ends.	
					Stateles	s Packet filte	ring	Trust finder	evaluates best p	practice in:
				Security Group		that controls	inbound	- Cost optim	ization	
						to an AWS E	EC2	- Security		
					instance)		 Fault tolera 	ance	

Lets someone access your

Route 53 website from their browser

Like a phone book

AWS

Root User IAM

IAM

Account Users Policies Groups Roles

IAM

IAM

AWS

Identity ar	nd access ma	anagement (d	cont)	AWS Cloud	EC2 (cont)
Created when	entity (person	deny or allow	collection of IAM	Temporatey a Constanted:	It finaryhigh-performance and comenpute-intensive needs
first start an AWS account	or an applic- ation) that interacts with AWS resources and services.	permissions to AWS resources and services.	users	sanines or resputitized Instances: Accele- rated Computing: Storage Optimized:	sent to you're you have large modifiasets on local storage. Eg de Visitenses, online transa- ordin systems, large file envittems
Full acces	s to all of the	e accounts re	sources and		
	port Plans Developer	Business E	Enterprise	Instance Stores	A storage volume that acts as a physical hard drive
AWS Clou				AWS EBS -	
	erver in the	AWS Cloud		Store	
To work with EC2: 1. The config includes the					Used for data that needs to persist
Launch with	operating system, application server, or applications.				Backup the data with AWS EBS snapshots.
config:				Cloud Stora - AWS S3	ge Also called AWS Simple Storage Service.
2. Connect	Programs and applications			Allows uploading any type of file.	
3. Use	software, and organ	ommands to add storage, ize files, and	сору,	Object-leve storage contains:	1731
	more.				

General

Purpose

Instance:

Balances computing, memory,

and networking resources

AWS Instance Store	s (cont)
S3 Standard	Ideal for data accessed often
S3 Standard-Inf- requent Access	Lower storage price but higher data retrieval price.
S3 One Zone-IA (S3 One Zone-Infr- equent Access)	It stores data in one Availability Zone, cheaper
S3 Intelligent Tiering	Requires automation and monitoring
S3 Glacier	For archiving data, retrieve objects within a few minutes.
S3 Glacier Deep Archive	Has the lowest cost, can retrieve objects within 12 hours.

Operational Excellence Pillar The operational excellence pillar is a capacity to manage and monitor systems. It improves supporting systems processes and procedures. It includes: - Making small and reversible changes - Prediction of system disruptions - Performing code tasks - Making documentation notes Security Pillar The security pillar consists of protecting systems and data. Well-Architected Framework applies security at all levels. It protects both stored and in-transit data. When possible, best security practices are automatically applied.

The reliability pillar is the ability to minimize

Reliability Pillar

disruptions of the system.

about what the data is

Key - unique identifier

AWS S3 Storage Classes:

It obtains computing resources as needed. It entails boosting system availability. It automatically recovers the system from disruptions. Performance Efficiency Pillar The performance efficiency pillar is the capacity to accurately use computing resources. It satisfies the efficiency on demand. Cost Optimization Pillar Cost optimization pillar helps you run your cloud services at the lowest price points. Cost optimization performs operations such Analysis of your costs Operating managed services Makes sure you only pay for what you use