

Core Cloud Concepts with AWS Cheat Sheet by datamansam via cheatography.com/139410/cs/33853/

Elastic Load Balancing Load Distributes application traffic Balancing across services Service

Ensures that one resource won't get overloaded, and that the traffic is spread out.

Services to run containerized applications

ECS - Elastic EKS - Elastic
Container Service Kubernetes Service

AWS Cloud Resource Provisioning			
AWS Management Console	AWS Command Line Interface	Software Development Kits	
Web GUI	Automate API requests, services, actions	To access and manage AWS services through an API	
Software Develo- pment Kits	to access and manage AWS services.	The API is fitted to the platform or programing language that	

AWS Cloud Provision Services:

With AWS Elastic Beanstalk, you provide code and configuration settings to: Adjust capacity Load balancing Automatic scaling Application health monitoring

you use.

With AWS CloudFormation, you can treat your infrastructure as code build an environment by writing lines of code

AWS Organization

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.

AWS Pricing			
Free Tler			
Always - do not expire.	Free for the first 12 months	Trials - Short term offers	
Always Free is available to everyone.	With more data to work with	For specific services	
		free for the first 12 months	

Pricing Models: Pay for Pay less Pay Less with Volume-Based what you when you Discount When use: reserve: You Use More No need Requires a Pricing per unit commitment for gets lower licensing for future when you cross agreemconsuma threshold. ents. ption.

This option is for those who know that they need the resources in the future.

Cost Explorer:

To visualize cost and usage.

AWS Pricing (cont)	
Cost Explorer	Filters and groups help
has a web-based	you to drill down to find
dashboard.	insights.
dasriboard.	insignis.

The Pricing Calculator lets you create a cost estimate for the use of AWS resources. The Billing Dashboard lets you pay your AWS bill, monitor usage, and analyze costs.

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



By datamansam

Published 24th September, 2022. Last updated 28th March, 2023. Page 1 of 4. Sponsored by **ApolloPad.com**Everyone has a novel in them. Finish Yours!

https://apollopad.com



Core Cloud Concepts with AWS Cheat Sheet by datamansam via cheatography.com/139410/cs/33853/

Cloud Migration and Innovation				
Cloud Adoption Framework				
Business	People	Governance	Platform	
Ensures that business and IT objectives meets the invest- ment.	and	the	To deploy new cloud solutions	
Cloud Migra	ation Strate	gies		
Rehosting	Replat- forming	Refactoring	Repurc- hasing	
=lift-and- shift.	=lift, tinker and shift.	Changing application foundations	SAAS from tradit- ional model	

Severless and Severs			
Containers	AWS Lambda	AWS EC2	
Let you package code in a single object.	Deploy Code for building and maintain apps	Provides virtual server instances (VSI).	

Severless and Severs (cont)				
Container	To run: 0.	To run:		
orchestration O	perations o	0.		
services help yo Ensures E	ou code 1.	Deploy		
deploy, manage		VSI 1.		
and scale vour		Deploy		
	Ready to perations	code 2.		
applications.	Trigger on neet the	Operate		
	an Event	Servers		
are met. at	tions.			

VPC is a service that lets you

AWS

Virtual Retaining Private	isolate your AWS resources in Retiring an isolated network.
Cloud	
Apps Internet requiring Gateway refact-	Removing How traffic can be allowed unnece- through a VPN ssary apps
Virtual oring	Used to access private
Private before Gateway migration	resources in the VPC
AWS	Dedicated private connection
Direct	between a data center and
Connect	VPC
Subnet	A section of VPC
Access	A firewall that controls the
Control	traffic, both inbound and
Lists	outbound.
(ACL)	
	Stateless Packet filtering
Security	Firewall that controls inbound
Group	and outbound traffic
	Specific to an AWS EC2
	instance
Config-	Adding custom rules for the
uration	traffic.
AWS	Lets someone access your
Route 53	website from their browser
	Like a phone book
·	

AWS EBS and AWS S3			
AWS EBS	AWS S3		
Block Store	Object Store		
Block =< 17.6 terabytes	Object <= 5 terabytes		
Faster perfor-mance	Data does not suffer loss, degradation, or a corruption for a very long time		
Data can be modified	Data can not be modified, unless re-uploaded		

Database Migration Service - AWS DMS

Helps move data between a source database and a target database.

Monitoring and Analysis			
AWS	AWS	Trusted	
CloudWatch	CloudTrail	Advisor	
To monitor	Logs	Checks	
resources	actions	account,	
	inside your	evaluates,	
	AWS	and recomm-	
	enviro-	ends.	
	nment.		

Trust finder evaluates best practice in:

- Cost optimization
- Performance
- Security
- Fault tolerance
- Service limits

Identity and access management				
AWS	IAM	IAM	IAM	IAM
Account	Users	Policies	Groups	Roles
Root				
User				



By datamansam

Published 24th September, 2022. Last updated 28th March, 2023. Page 2 of 4. Sponsored by **ApolloPad.com**Everyone has a novel in them. Finish Yours!

https://apollopad.com

cheatography.com/datamansam/



Core Cloud Concepts with AWS Cheat Sheet by datamansam via cheatography.com/139410/cs/33853/

Identity ar	nd access ma	anagement (d	cont)
Created	entity	deny or	collection
when	(person	allow	of IAM
first	or an	permis-	users
start an	applic-	sions to	
AWS	ation) that	AWS	
account	interacts	resources	
	with AWS	and	
	resources	services.	
	and		

Full access to all of the accounts resources and AWS Computing:

aim to map AWS groups to specific roles within your organization, and apply the policy to the group instead

services.

Multi-factor Authentication: IMay come in the form of a security code that is sent to your mobile device or an email.

AWS Support Plans

Basic Developer **Business** Enterprise

AWS Cloud EC2

A virtual server in the AWS Cloud

To work with EC2:

1.	The config includes the
Launch	operating system, application
with	server, or applications.
template	
config:	
2.	Programs and applications
_	

Connect 3. Use Execute commands to install

> software, add storage, copy, and organize files, and much more.

Instance Types:

T@eperary	Balances computing,
a Cuesose	memory, and networking
sensitaeser	resources
resources.	For high-performance and
Optimized:	compute-intensive needs
Memory	When huge amounts of data
Optimized	need to be preloaded before
Instances:	running the app

AWS Cloud EC2 (cont)

Boost the data processing. Accele-For graphics applications and rated streaming.

Storage when you have large Optimized: datasets on local storage. Eg Warehouses, online transaction systems, large file systems

AWS Instance Stores			
Instance	A storage volume that		
Stores	acts as a physical hard		
	drive		

AWS EBS -Provides storage Elastic Block volumes. Store Used for data that needs

to persist Backup the data with AWS EBS snapshots. Cloud Storage Also called AWS Simple - AWS S3 Storage Service.

> Allows uploading any type of file. Data - any type of file

	AWS Instance Stores	(cont)
		Metadata - information about what the data is
		Key - unique identifier
	AWS S3 Storage Cla	sses:
	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	Has the lowest cost,

AWS Well-Architected Framework

Operational Excellence Pillar The operational excellence pillar is a capacity to manage and monitor systems. It improves supporting systems processes and procedures.

can retrieve objects within 12 hours.

It includes:

Archive

- 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.



By datamansam

cheatography.com/datamansam/

Object-level

storage

contains:

Published 24th September, 2022. Last updated 28th March, 2023. Page 3 of 4.

Sponsored by ApolloPad.com Everyone has a novel in them. Finish Yours!

https://apollopad.com



Core Cloud Concepts with AWS Cheat Sheet by datamansam via cheatography.com/139410/cs/33853/

AWS Well-Architected Framework (cont)

Well-Architected Framework applies security at all levels.

It protects both stored and in-transit data.

When possible, best security practices are automatically applied.

Reliability Pillar

disruptions.

The reliability pillar is the ability to minimize disruptions of the system.

It obtains computing resources as needed.
It entails boosting system availability.
It automatically recovers the system from

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

C

By datamansam

cheatography.com/datamansam/

Published 24th September, 2022. Last updated 28th March, 2023. Page 4 of 4. Sponsored by **ApolloPad.com**Everyone has a novel in them. Finish Yours!

https://apollopad.com