### AWS Services Cheat Sheet by irohitpawar via cheatography.com/127546/cs/24837/

Compute			Compute (co	ont)		Compute (c	ont)	
Category Instances (Virtual machines)	Service EC2	Description Provides secure, resizable compute capacity in the cloud. It makes		Lightsail	Designed to be the easiest way to launch & manage a virtual private server		Elastic Container Registry (ECR)	Easily store, manage, & deploy container images. ECR
	EC2	web-scale cloud computing easier for developers. EC2			with AWS. An easy-to-use cloud platform that offers		Elastic Kubernetes Service (EKS)	Fully managed Kubernetes service. EKS
	Spot EC2	workloads for up to 90% off. EC2Spot		everything need to build an application or website. Lightsail		Fargate	Serverless compute for containers. Fargate	
	Autosc aling	remove compute capacity to meet changes in demand. EC2_Au- stoScaling		Batch	Enables develo- pers, scientists, & engineers to easily & effici- ently run hundreds of thousands of	Serverless	Lambda	Run code without thinking about servers. Pay only for the compute time you consume. Lamda
			Containers	Elastic	batch computing jobs on AWS. Fully managed batch processing at any scale. Batch Highly secure,	Edge and hybrid	Outposts	Run AWS infrastructure & services on premises for a truly consistent hybrid experi-
				Container Service (ECS)	reliable, & scalable way to run containers. ECS		Snow Family	ence. Outposts Collect and process data in rugged or disconnected
								edge enviro- nments. SnowFamily

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Compute	Compute (cont)							
Waveleng	oth Deliver ultra-low latency application for 5G devices. Wavelenth							
VMware Cloud on AWS	Innovate faster, rapidly transition to the cloud, & work securely from any location. VMware_On_AWS							
Local Zones	Run latency sensitive applic- ations closer to end-users. LocalZones							
Storage								
Service	Description							
AWS S3	S3 is the storehouse for the internet i.e. object storage built to store & retrieve any amount of							
AWS Backup	data from anywhere S3 AWS Backup is an externally-a- ccessible backup provider that makes it easier to align & optimize the backup of data							

Storage (c	ont)
Amazon EBS	Amazon Elastic Block Store is a web service that provides block-level storage volumes. EBS
Amazon EFS Storage	EFS offers file storage for the user's Amazon EC2 instances. It's kind of blob Storage. EFS
Amazon FSx	FSx supply fully managed 3rd- party file systems with the native compatibility & characteristic sets for workloads. It's available as FSx for Windows server (Fully managed file storage built on Windows Server) & Lustre (Fully managed high-perf- ormance file system integrated with S3). FSx_Windows FSx_Lustre
AWS Storage Gateway	Storage Gateway is a service which connects an on-premises software appliance with cloud based storage. Storage_G- ateway

#### Storage (con

Storage (co	Storage (cont)							
AWS DataSync makes it simple & DataSync fast to move large amounts or data online between on-pre- mises storage & S3, EFS, or FSx for Windows File Server. DataSync								
AWS Transfer Family	nsfer fully managed support for file							
AWS Snow Family	Highly-secure, portable devices to collect & process data at the edge, and migrate data into and out of AWS. Snow_Family							
Classificatio	on:							
Object stora	age: <i>S3</i>							
File storage	e services: Elastic File System,							
	ndows Servers & FSx for Lustre							
Block stora	0							
Backup: Al	,							
Data transfe								
00	<i>teway</i> > 3 types: Tape, File,							
Volume.								
	amily> SFTP, FTPS, FTP.							
0 ,	<i>puting and storage and Snow</i> Snowcone, Snowball,							
Snowmobil	, ,							
Showmobile								

Databases			
Database	Use	Service	Descri-
type	cases		ption

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cloud. AWS\_Backup

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Databases	(cont)			Databases	(cont)		Databa	ases (cont)		
Relational	Traditional	Aurora,	RDS is a	a <b>In-</b>	Caching,	ElastiCache	ElastiC <b>Wilde</b> h	elp <b>sHig</b> h	Keyspaces	Keyspac
	applic-	RDS,	web	memory	session	for	setting <b>columa</b>	nagiogle	(for Apache	is a
	ations,	Redshift	service t	that	manage-	Memcached	and scaling in	-mei <b>ndurş</b> trial	Cassandra)	scalable
	ERP,		makes it	t	ment,	& Redis	cache conditio	ons.apps for		highly
	CRM, e-		easier to	)	gaming		Memcached F	Redi <b>s</b> quipment		available
	commerce		set up,		leader-			mainte-		and
			control,		boards,			nance,		manage
			and scal	le a	geospatial			fleet		Apache
			relationa	al	applic-			manage-		Cassan-
			databas	e	ations			ment, and		dra-co-
			in the	Document	Content	DocumentDB	DocumentDB	(withoute		mpatible
			cloud.		manage-		MongoDB cor	npaflBtilftyj		databas
			Aurora		ment,		is a quick, dep	pendatien		service.
			RDS		catalogs,		and fully-man	aged		Keyspac
			Redshift		user		databa <b>&amp;raph</b>	vice <b>Enat</b> ud	Neptune	Neptune
Key-value	High-t-	DynamoDB	Dynamo	DB	profiles		makes it easy	for dycate obtion,		a fast,
	raffic web		is a fully				set up, operat	e,asmocial		reliable,
	apps, e-		admini-				scale Mongo	)B-occentyper-		fully
	commerce		stered				atible	king,		manage
	systems,		NoSQL				databases.Do	cun <b>necóbBn-</b>		graph
	gaming		databas	e				endation		databas
	applic-		service t	that				engines		service
	ations		offers qu	uick						that mak
			and relia	able						it easy to
			perfor-							build an
			mance v	vith						run appl
			integrate	ed						ations th
			scalabili	-						work wit
			Dynamo	DB						highly
										connect
										datasets
										Neptune

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Databa	ses (cont)			Databas	es (cont)			Developer T	ools (cont)
Time series	loT applic- ations, DevOps, industrial telemetry	Timestream	Timestream is a fast, scalable, and serverless time series database service for loT and operational applications that makes it easy to store and analyze trillions of events per day. Timestream	Ledger	Systems of record, supply chain, regist- rations, banking transa- ctions	Quantum Ledger Database (QLDB)	QLDB is a fully managed ledger database that provides a transp- arent, immutable, and cryptogra- phically verifiable transaction log owned by a central trusted authority. QLDB	CodeAr- tifact CodeBuild	CodeArtifact is a fully managed artifact repository service that makes it easy for organizations of any size to securely store, publish, & share software packages used in their software development process. CodeArtifact CodeBuild is a fully managed service that assembles source code, runs unit tests, & also generates artefacts ready to deploy. CodeBuild CodeGuru is a developer tool powered by machine learning that provides intelligent recommendations for improving code quality & identifying an application's most expensive lines of code. CodeGuru
				Develop Service Cloud9	Descriptio	on a cloud-bas	ed IDE that		
				enables the user to write, run, and debug code. Cloud9			rite, run,		
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cheato	grapriy.com/	nompawar/							

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Developer Tools (cont)							
Cloud Develo- pment Kit	Cloud Development Kit (AWS CDK) is an open source software develo- pment framework to define cloud application resources using familiar programming languages. CDK						
CodeCommit	CodeCommit is a version control service that enables the user to personally store & manage Git archives in the AWS cloud. CodeCommit						
CodeDeploy	CodeDeploy is a fully managed deployment service that automates software deployments to a variety of compute services such as EC2, Fargate, Lambda, & on-premises servers. CodeDeploy						
CodePi- peline	CodePipeline is a fully managed continuous delivery service that helps automate release pipelines for fast & reliable app & infra updates. CodePipeline						

#### Developer Tools (cont)

CodeStar	CodeStar enables to quickly develop, build, & deploy applic- ations on AWS. CodeStar
CLI	AWS CLI is a unified tool to manage AWS services & control multiple services from the command line & automate them through scripts. CLI
X-Ray	X-Ray helps developers analyze & debug production, distributed applications, such as those built using a micros- ervices architecture. X-Ray
Migration 8	Transfer services
Service	Description
Migration	Build a data-driven business

Evaluator case for AWS. ME Migration Migration Hub provides a single location to track the progress of app migrations across multiple AWS & partner solutions. MigrationHub

#### Migration & Transfer services (cont)

Applic- ation Discovery Service	Application Discovery Service helps enterprise customers plan migration projects by gathering information about their on-premises data centers. ADS
Server Migration Service (SMS)	SMS is an agentless service which makes it easier & faster to migrate thousands of on- premises workloads to AWS. SMS
Database Migration Service (DMS)	DMS helps migrate databases to AWS quickly & securely. DMS
CloudE- ndure Migration	CloudEndure Migration simpli- fies, expedites, & reduces the cost of cloud migration by offering a highly automated lift- &-shift solution. CloudEndure
VMware Cloud on AWS	Refer compute section.
DataSync	Refer storage section.
Transfer Family	Refer storage section.
Snow Family	Refer storage section.

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Cost Mana	igement		Cost	Management (co	ont)		Cost Ma	nagement (cont	:)	
Use cases Organize	CapabilitiesServiceConstruct1) CostcostAllocationallocation &Tags 2)governanceCost	1) Cost Allocation Tags 2)	Descriptionep	ort Raise awareness & accoun- tability of your cloud spend with the detailed, allocable cost data	1) Cost Explorer 2) Cost & Usage Report	Cost & Usage Report contains the most compre- hensive set of AWS cost & usage data available, including additional metadata about AWS services, pricing, & reserv- ations. CostEx- plorer CUR	Control	Establish effective governance mechanisms with the right guardrails in place	1) IAM 2) Organi- zations 3) Control Tower 4) Service Catalog	Organi- zations helps centrally govern enviro- nment as you grow & scale workloads on AWS. Control tower is the easiest way to set up & govern a new, secure multi account AWS enviro-
			Acc	billing inform- ation across the organi- zation in a consol- idated view	1) Consol- idated Billing 2) Credits	credits are applied to bills to help cover costs that are associated with eligible services. Consolida- tedBilling Credits				nment. Contro- ITower
C	By irohitpav	var		ished 17th Octob updated 23rd Jur				ed by <b>Crosswor</b> solve cryptic cr		om

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Cost Mana	agement (co	nt)		Cost Mana	igement (cor	nt)	Cost Mana	agement (cont)		
	Estimate resource utiliz- ation & spend with forecast dashbo- ards.	resource Explorer utiliz- (Self ation & Service) spend 2) with Budgets forecast (Event- dashbo- Driven)	Explorerforecast(Selfis aService)prediction2)of howBudgetsmuch you(Event-will use	forecast is a prediction of how much you will use AWS services over the forecast	Purchase	Leverage free trials & progra- mmatic discounts based on workload pattern & needs	1) Free Tier 2) Reserved Instances 3) Savings Plans 4) Spot Instances 5) DynamoDB On- demand	RI provide Rightsize significant discount (up to 75%) compared to On-Demand pricing. RI FreeTier SavingsPlan SpotEC2 DynamoDBOD	1) Cost Explorer Right Sizing Recomm endations 2) Compute Optimizer 3) Redshift resize 4)	Compu Optimi: recomr optima Compu resourc your worklo: reduce & impro perforn by usin
				Elasticity	Scale & schedule services based on expected utilization pattern & needs	1) Instance Scheduler 2) Redshift pause & resume 3) EC2 Auto Scaling 4) Trusted	Trusted Advisor is an online tool that provides real time guidahosepect to help provision resources	Stay up-to- date with resource deployment	S3 Intell- igent Tiering Cost Explorer	to anal historic utilizati metrics Cost Explore an eas use inte
	spend inBcheck2)withBcustomAbudgetvithresholdC& auto&alert3)notifi-S	Keep 1) E   pend in Budgets a   theck 2) s   with Budget a   budget via t   budget via t   hreshold Chime a   auto & Slack u   ation Catalog t   ation Catalog <td>EventD- rivenB- udgets Budgets Budgets allows to set Budget custom</td> <td></td> <td></td> <td>Advisor</td> <td>following AWS best practices. InstanceSche- duler Redshi- ftP&amp;R EC2ASG TrustedAd- visor</td> <td>&amp; cost optimi- zation opport- unities</td> <td></td> <td>that let visualiz unders &amp; mana AWS c usage time. CostEx</td>	EventD- rivenB- udgets Budgets Budgets allows to set Budget custom			Advisor	following AWS best practices. InstanceSche- duler Redshi- ftP&R EC2ASG TrustedAd- visor	& cost optimi- zation opport- unities		that let visualiz unders & mana AWS c usage time. CostEx
			to track cost & usage from the simplest to the most complex use cases. Budgets Budgets Budget- Alerts Servic- eCatalog							



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SDKs & Too	olkits	SDKs &	SDKs & Toolkits (cont)				Networking & Content Delivery (cont)			
Service CDK	Description CDK uses the familiarity & expressive power of progra- mming languages for modeling apps. CDK	and man ations on	developing aging applic- AWS ng & Content	tools o	ete list of an be found <sup>-</sup> ools	Connect VPCs and on-pre- mises networks	Transit Gateway	Transit Gateway connects VPCs & on-premises networks through a central hub.		
Corretto	Corretto is a no-cost, multip- latform, production-ready distribution of the OpenJDK. Corretto	Use cases Build a cloud	Functi- onality Define and	Service VPC	Descri- ption VPC lets you	through a central hub		This simplifies network & puts an end to complex peering relationships.		
Crypto Tools	Cryptography is hard to do safely & correctly. The AWS Crypto Tools libraries are designed to help everyone do cryptography right, even without special expertise. Crypto Tools	network	network provision a logically isolated network for your AWS resources		provision a logically isolated section of the AWS Cloud where	Provide private connec- tivity between	Privat- eLink	TransitGateway PrivateLink provides private connectivity between VPCs & services hosted		
Serverless Applic- ation Model (SAM)	SAM is an open-source framework for building serverless applications. It provides shorthand syntax to express functions, APIs, databases, & event source	open-source for building applications. It orthand syntax to ctions, APIs,			where you can launch AWS resources in a virtual	VPCs, services, and on- premises applic- ations		on AWS or on- premises, securely on the Amazon network. Privat- eLink		
	mappings. SAM				network that you define. VPC					

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Networki	ng & Content I	Delivery (con	t)	Networking & Content Delivery (cont)				Netw	Networking & Content Delivery (cont)			
	Route users to Internet applic- ations with a managed DNS service	Route 53	Route 53 is a highly available & scalable cloud DNS web service. Route53		Direct traffic through the AWS Global network to improve global applic-	Global Accele rator	Global Accele- rator is a networking service that sends user's traffic through	Prote your web appl atior from com web exple	c- Is mon	WAF	WAF is a web applic- ation firewall that helps protect your web applic- ations or APIs against common web exploits that may affect availa- bility, compromise security, or consume excessive resources.	
Scale your network design	Automa- tically distribute traffic across a pool of resources, such as instances, containers, IP addresses, and	Elastic Load Balancing	Elastic Load Balancing automa- tically distributes incoming application traffic across multiple targets, such as		ation perfor- mance		AWS's global network infrastru- cture, improving internet user perfor- mance by up to 60%. GlobalAcc- elerator				WAF	
	Lambda functions		EC2's, containers, IP addresses, & Lambda functions. ElasticLo- adBala- ncing	network	Safeguard applic- ations running on AWS against DDoS attacks	Shield	Shield is a managed Distributed Denial of Service (DDoS) protection service that safeguards applic- ations running on AWS. Shield					
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Networki	ng & Content	Delivery (c	ont)	Networking & Co	ntent Delive	ery (cont)	Networking	g & Content D	elivery (cont)	
	Centrally configure and manage firewall rules	Firewall Manager	Firewall Manager is a security management service which allows to centrally configure & manage firewall rules	Create an encrypted connection between your network and your Amazon VPCs or AWS Transit Gateways	(VPN) - Site to Site	Site-to-Site VPN creates a secure connection between data center or branch office & AWS cloud resources. site_to_site	Content delivery networks	Securely deliver data, videos, applic- ations, and APIs to customers globally with low	CloudFront	Cloudf expedi distribu of stati dynam web conten Cloudf
			across accounts & apps in AWS Organi- zation. link	Establish a private, dedicated connection between AWS	Direct Connect	Direct Connect is a cloud service solution that makes it easy	Build a	latency, and high transfer speeds Provide	App Mesh	Арр М
Build a hybrid IT network	Connect your users to AWS or on-pre- mises resources using a	(VPN) - Client	text VPN solutions establish secure connections between on- premises networks,	and your datacenter, office, or colocation environment		to establish a dedicated network connection from your premises to AWS. Direct- Connect	network for micros- ervices archit- ectures	applicati- on-level networking for containers and micros- ervices		makes access to guid control micros ervices operat AWS. AppMe
	Virtual Private Network		remote offices, client devices, & the AWS global network. VPN					Create, maintain, and secure APIs at any scale	API Gateway	API Gatew allows user tc design expand own R and WebSd APIs a scale.

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Networking & 0	Content Deli	very (cont)	Security, Identi	ity, & Compl	iance (cont)	Security, Identi	ty, & Complia	ance (cont)
Discover AWS services connected to your applic- ations Security, Ident	Мар	Cloud Map permits the name & handles the cloud resources. CloudMap	Identity management for apps	Cognito	Cognito lets you add user sign-up, sign- in, & access control to web & mobile apps quickly and easily. Cognito	Simple, secure service to share AWS resources	Resource Access Manager	Resource Access Manager (RAM) is a service that enables you to easily & securely share
Category Identity & access management	Use cases Securely manage access to services	Service Identity & Access Management (IAM)	DescriManaged ption Microsoft IAM is a Directory service for safely	Directory Service	AWS Managed Microsoft Active Directory (AD) enables your directory-			AWS resources with any AWS account or within AWS Organization.
	and resources		contro- lling access to AWS services. IAM		aware workloads & AWS resources to use managed Active	Central governance and management across AWS	Organi- zations	RAM Organizations helps you centrally govern your environment
	Securely manage access to services and resources	Single Sign- On	SSO helps in simpli- fying, managing SSO access to AWS accounts & business applic- ations. SSO		Directory (AD) in AWS. Directory- Service	accounts		as you grow and scale your workloads on AWS. Orgs
C	3y <b>irohitpaw</b> a	ır	Published 17th Last updated 2 Page 11 of 21.	3rd June, 2		Sponsored by Learn to solve http://crosswore	cryptic cross	words!

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Detection	Unified	Socurity	Security	Apolyzo	Increator	Inspector is a	Track user	CloudTrail	CloudTrail is
Jelection	security and compliance center	Security Hub	Hub gives a compre- hensive view of security alerts & security posture across	sapplication	Inspector	security vulner- ability assessment service improves the security & compliance of the AWS resources. Inspector	API usage	Cloud Iraii	a service that enables governance, compliance, operational auditing, & risk auditing of AWS account.
			AWS accounts Securi- tyHub	Record · and evaluate configura-	Config	Config is a service that enables to assess, audit, &	Security management for IoT	loT Device Defender	CloudTrail IoT Device Defender is a fully manage
	Managed threat detection service	GuardDuty		tytions of t your AWS resources		evaluate the configurations of AWS resources. Config	devices		service that helps secure fleet of IoT devices. IoTDD
			contin- uously monitors for malicious activity & unauth- orized behavior to protect AWS accounts workload & data stored in S3. GuardDu	; , S,					



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Security, Ic	lentity, & Con	npliance	(cont)	Security, Identi	ty, & Compl	liance (cont)	Security, Identity, & Compliance (cont)					
Infrastru- cture protection	DDoS protection	Shield	Shield is a managed DDoS protection service that safeguards apps running. It provides always-on detection & automatic inline mitigations	Filter malicious web traffic	Web Applic- ation Firewall (WAF)	WAF is a web application firewall that helps protect web apps or APIs against common web exploits that may affect availability, compromise security, or consume excessive resources. WAF	Data protection	Discover and protect your sensitive data at scale	Macie	V a rr d t s י t r t r t c t c t c s ·		
			that minimize application downtime & latency. Shield	Central management of firewall rules	Firewall Manager	Firewall Manager eases the user AWS WAF administr- ation & mainte- nance activities over multiple accounts & resources. FirewallM- anager		Key storage and management	Key Management Service (KMS)	d N K r e tc & r C i g k		
										Citra w ra Si & a a K		

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Security, Ider	ntity, & Compli	ance (cont)	Security, le	dentity, & Co	ompliance (c	ont)	Security, Ide	entity, & Compli	ance (cont)	
Hardware based key storage for regulatory compliance	CloudHSM	CloudHSM is a cloud-based hardware security module (HSM) that enables you to easily generate & use your own encryption keys. CloudHSM		Rotate, manage, and retrieve secrets	Secrets Manager	Secrets Manager assist the user to safely encode, store, & recover creden- tials for any user's database		Fast, automated, cost- effective disaster recovery	CloudE- ndure Disaster Recovery	Prov scala cost- ctive busir conti for phys virtua cloud serve Clou
Provision, manage, and deploy public and private SSL/TLS certificates	Certificate Manager	Certificate Manager is a service that easily provision, manage, & deploy public and private SSL/TLS certs for use with AWS services & internal connected	Incident response	Invest- igate potential security issues	Detective	& other services. Secret- sManager Detective makes it easy to analyze, invest- igate, & quickly identify the root	Compliance	self-service portal for on-demand access to AWS' compliance reports	Artifact	ndur Artifa web servi enat user dowr AWS secu com reco Artifa
		ACM				cause of potential security issues or suspicious activities. Detective	Data Lakes Category		rvice Desc ption	

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Data Lake	es & Analytics	(cont)		Data Lakes	& Analytic	s (cont)	Data Lakes &	Analytics (co	nt)
Analytics	Interactive analytics	Athena	Athena is an intera- ctive	Data wareho- using	Redshift	The most popular & fastest cloud data warehouse. Redshift	Operational analytics	Elasti- csearch Service	Elasticsearch Service is a fully managed
			query service that makes it easy to analyze data in S3 using	Real- time analytics	Kinesis	Kinesis makes it easy to collect, process, & analyze real-time, streaming data so one can get timely insights. Kinesis			service that makes it easy to deploy, secure, & run Elasticsearch cost effectively at scale. ES
			standard SQL. Athena				Dashboards & visualiza- tions	Quicksight	QuickSight is a fast, cloud powered
	Big data processing	EMR	EMR is the industry leading cloud big data platform for processing						business intell- igence service that makes it easy to deliver insights to everyone in organization. QuickSight
			vast amounts of data using open source tools such as Apache Spark, Hive, HBase,- Flink, Hudi, & Presto. EMR						



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Data Lakes	& Analytics (c	cont)		Data L	akes & Ar	nalytics (cont)		Data Lakes & Analytics (cont)			
Data	Real-time	1)	MSK is a	Data	Object	1) S3 2)	Lake	Backup	1) S3	S3 Glacier & S3	
movement	data	Amazon	fully	lake	storage	Lake	Formation is	&	Glacier 2)	Glacier Deep	
	movement	Managed Streaming for Apache Kafka (MSK) 2)	managed service that makes it easy to build &	I		Formation	a service that makes it easy to set up a secure data lake in days. A data	archive	Backup	Archive are a secure, durable, & extremely low-cost S3 cloud storage classes for data archiving & long-	
		Kinesis Data	run applic-				lake is a centralized,			term backup. S3Glacier	
		Streams 3) Kinesis Data	ations that use Apache				curated, & secured repository	Data catalog	1) Glue 2)) Lake Formation	Refer as above.	
		Firehose 4) Kinesis Data Analytics 5) Kinesis Video Streams	Kafka to process streaming data. MSK KDS KDF KDA KVS	=			that stores all data, both in its original form & prepared for analysis. S3 LakeFo-	Third party data	Data Exchange	Data Exchange makes it easy to find, subscribe to, & use third-party data in the cloud. DataExchange	
		6) Glue	Glue	, 			rmation				



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### AWS Services Cheat Sheet by irohitpawar via cheatography.com/127546/cs/24837/

Data Lakes	& Analytics (co	ont)		Data Lake	s & Analytics (	(cont)		Containers (cont)				
Predictive analytics && machine	Frameworks & interfaces	Deep Learning AMIs	Deep Learning AMIs provide	Platform services	SageMaker	SageM fully ma service	0	Manage containers with Kubernetes	EKS	Refer compute section		
learning			machine learning practi- tioners & resear- chers with the infras	-		scientis ability t train, & machin (ML) m quickly.	deploy e learning odels	Run containers without managing servers	Fargate	Fargate is a serverless compute engine for containers that works with both ECS & EKS. Fargate		
			deep learning i the cloud	Containers Use cases	Use cases s		Descri- ption Refer	Run containers with server- level control	EC2	Refer compute section		
			at any scale. DeepLe- arn- ingAMIs	manage co images Run contai application microservi	inerized Is or build	ECS	compute section Refer compute section	Contai- nerize and migrate existing applic-	App2Co ntainer	App2Container (A2C) is a command-line tool for modernizing .NET & Java		
								ations		applications into containerized applications.		

applic- ations		.NET & Java applications into containerized applications. App2Container
Quickly launch and manage contai- nerized applic- ations	Copilot	Copilot is a command line interface (CLI) that enables customers to quickly launch & easily manage containerized applications on AWS. Copilot

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Serverless			Server	less (cont)		Serverless (cont)				
Category Compute	Service Lambda	Description Lambda lets you run code without provisioning or managing servers. You pay		Aurora Serverless	Aurora Serverless is an on-demand, auto- scaling configuration for Amazon Aurora (MySQL & Postgr- eSQL-compatible	Applic ation integr ation	SNS	SNS is a fully managed messaging service for both system-to-system & app-to-person (A2P) communication.		
		only for the compute time you consume.			editions), where the database will automatically start up,		SQS	SQS is a fully managed message queuing service that		
	Lambda- @Edge	Lambda@Edge is a feature of Amazon CloudFront that			shut down, & scale capacity up or down based on your applic- ation's needs.			enables to decouple & scale microservices, distributed systems, & serverless applic-		
		lets you run code closer to users of your application, which improves performance & reduces latency.		RDS Proxy	RDS Proxy is a fully managed, highly available database proxy for RDS that makes applications more scalable,		AppSync	ations. AppSync is a fully managed service that makes it easy to develop GraphQL APIs by handling the heavy		
	Fargate	Refer containers section			resilient to database failures, & more secure.			lifting of securely connecting to data		
Storage	S3	Refer storage section	API Proxy	API Gateway	API Gateway is a fully managed			sources like AWS DynamoDB, Lambda.		
	EFS	Refer storage section	ПОЛУ	Galeway	service that makes it easy for developers					
Data stores	DynamoDB	DynamoDB is a key-value & document database that delivers single- digit millisecond performance at any scale.			to create, publish, maintain, monitor, & secure APIs at any scale.					



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Serverless (cont)			Application Integration			Application Integration (cont)		
	EventB- ridge	EventBridge is a serverless event bus that makes it easy to connect applications	Category Messaging	Service SNS	Description Reliable high throughput pub/sub, SMS, email, and		AppSync	Create a flexible API to securely access, manipulate, & combine data from one or more data sources
		together using data from apps, integrated SaaS apps, & AWS services.		SQS	mobile push notifications Message queue that sends, stores,	Event bus	EventB- ridge	Build an event-driven architecture that connects application data from your own apps, SaaS, & AWS
Orches- tration	Step Functions	Step Functions is a serverless function orchestrator that makes it easy to sequence Lambda functions & multiple AWS services into business-critical applications. Kinesis makes it easy to collect, process, & analyze real-time, streaming data so one can get timely			and receives messages between application components at any volume		AppFlow	Automate the flow of data between SaaS applications & AWS services at nearly any scale, without code.
				MQ	Message broker for Apache ActiveMQ that makes migration easy and enables hybrid archit- ectures Coordinate multiple AWS services into serverless workflows so you can build and update apps quickly Create, publish, maintain, monitor, & secure APIs at any scale for serverless workloads & web apps	Manage Catego	ement & Gov	
Analytics	Kinesis					Enable	-	The easiest way to set up and govern a new, secure multi account AWS enviro- nment. ControlTower
	Athena	insights. Athena is an interactive query service that makes it easy to analyze data in Amazon S3 using standard SQL.	Workflows	Step Functions			zations	
			API management	API Gateway				



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Management & Governance (cont)			Management & Governance (cont)			Managemen	Management & Governance (cont)		
	Well-A- rch- itected Tool Budgets	Well-Architected Tool helps review the state of workloads & compares them to the latest AWS architectural best practices. WATool Budgets allows to		Service Catalog OpsWorks	Service Catalog allows organi- zations to create & manage catalogs of IT services that are approved for use on AWS. Servic- eCatalog	CloudTrail	CloudTrail is a service that enables governance, compli- ance, operational auditing, & risk auditing of AWS account. CloudTrail		
						Config Systems Manager	Config Systems Manager to plan, proctor, & automate administr-		
		set custom budgets to track cost & usage from the simplest to the most complex use cases. Budgets			OpsWorks presents a simple and flexible way to create and maintain stacks and applications.	Cost & usage report Cost	ation tasks on the AWS resources. SystemsManager Refer cost management section Refer cost management		
	License Manager	License Manager makes it easier to manage software licenses from software vendors such as Microsoft, SAP, Oracle, & IBM across AWS & on- premises enviro- nments. LicenseMa- nager	Operate	CloudWatch	OpsWorks Marketplace is a digital catalog with thousands of software listings from independent software vendors that make it easy to find, test, buy, & deploy software that runs on AWS. Marketplace	explorer Managed Services X Ray	section Operate your AWS infrastru- cture on your behalf. Manage- dServices X-Ray		
						Recommend security best practices Turn on multifactor authentication for the "root" account Turn on CloudTrail log file validation. Enable CloudTrail multi-region logging.			
	CloudF- ormation	CloudFormation enables the user to design & provision AWS infrastructure deployments predic- tably & repeatedly. CloudFormation				Integrate Clo	budTrail with CloudWatch.		
				Cioudivialen	offers a reliable, scalable, & flexible monitoring solution that can easily start. CloudWatch	buckets.	ess logging for Elastic Load		

Ву

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Recommend security best practices (cont)	Recommend security best practices (cont)	Recommend security best practices (cont)				
Enable Redshift audit logging.	Use a standard naming (tagging)	Grant the fewest privileges as possible for application users Enforce a single set of data loss prevention				
Enable Virtual Private Cloud (VPC) flow	convention for EC2.					
logging.	Encrypt RDS.					
Require multifactor authentication (MFA) to delete CloudTrail buckets	Ensure access keys are not being used with root accounts.	policies across custom applications and all other cloud services.				
Enable CloudTrail logging across all AWS.	Use secure CloudFront SSL versions.	Encrypt highly sensitive data such as protected health information (PHI) or personally identifiable information (PII).				
Turn on multi-factor authentication for IAM users.	Enable the require_ssl parameter in all Redshift clusters.					
Enable IAM users for multi-mode access.	Rotate SSH keys periodically.					
Attach IAM policies to groups or roles	Minimize the number of discrete security					
Rotate IAM access keys regularly, and	groups.					
standardize on the selected number of days	Reduce number of IAM groups.					
Set up a strict password policy.	Terminate unused access keys					
Set the password expiration period to 90 days and prevent reuseCustomer Visual-	Disable access for inactive or unused IAM users					
force pages with standard headers	Remove unused IAM access keys					
Don't use expired SSL/TLS certificates	Delete unused SSH Public Keys					
User HTTPS for CloudFront distributions	Restrict access to AMIs.					
Restrict access to CloudTrail bucket.	Restrict access to EC2 security groups.					
Encrypt CloudTrail log files at rest	Restrict access to RDS instances.					
Encrypt Elastic Block Store (EBS) database.	Restrict access to Redshift clusters.					
Provision access to resources using IAM	Restrict outbound access.					
roles. Ensure EC2 security groups don't have	Disallow unrestricted ingress access on uncommon ports.					
large ranges of ports open	Restrict access to well-known ports such as					
Configure EC2 security groups to restrict inbound access to EC2.	CIFS, FTP, ICMP, SMTP, SSH, Remote desktop					
Avoid using root user accounts.	Inventory & categorize all existing custom					
Use secure SSL ciphers when connecting between the client and ELB.	apps by the types of data stored, compliance requirements & possible threats					
Use secure SSL versions when connecting	they face.					
between client and ELB.	Involve IT security throughout the develo- pment process.					
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