front	back				
S3 object storage classes	- standard				
S3 standard	Multi-AZ, single region				
S3 intelligent tiering	Objects within the bucket are moved to infrequent access tier when not accessed for 30 days; when an object in IA is accessed, it is moved back to frequent				
S3 standard IA	Good for infrequently accessed data				
S3 one-zone IA	Good for infrequently accessed data when you can trade off cost for reduced availability				
Glacier	Cold storage				
Glacier deep archive	Cold storage				
S3 lifecycle policies	Can transition objects from standard to IA to Glacier after a certain period (restrictions apply for instance, an object can't be transitioned to glacier less than				
S3 lifecycle policies - minimum stor					
S3 versioning	With versioning enabled on a bucket, overwriting an object generates a version ID for the object; old versions are preserved.				
S3 object lock	Available for all storage classes				
S3 transfer acceleration	·				
S3 events	Use CloudFront to speed up transfer to/from S3 (there is a cost associated with this)				
	Can be routed to:				
S3 static websites	- enable web hosting				
S3 security best practices	- block public access				
EFS storage classes	- Standard				
EFS performance mode	- general purpose (7K iops)				
EFS throughput	- bursting: volume builds up crediets based on the filesystem size; credits allow bursting for limited time periods				
Mounting EFS	- use /etc/fstab inside of linux VMs				
EFS encryption	Encryption at rest supported via AWS-managed keys				
Importing data to AWS	- Snowball				
AWS Data Sync	Uses a super-efficient, purpose-built data transfer protocol that can run 10 times as fast as open source data transfer.				
Snowball	Physical device shipped to your location; comes in 50TB and 80TB sizes (slightly less usable)				
Snowmobile	100PB of storage capacity housed in a 45-foot long High Cube shipping container that measures 8 foot wide, 9.6 foot tall and has a curb weight of approxima				
Storage Gateway	Hybrid cloud storage solution running on an on-prem VM or hardware appliance				
Disaster recovery strategies	- Backup/restore				
RTO	Recovery Time Objective - amount of time service can be offline				
RPO	Recovery Point Objective				
EC2 general-purpose instance type	·				
EC2 Compute-optimized instance type					
_ · ·					
EC2 Memory-optimized instance ty					
EC2 Accelerated computing	Hardware accoelerators				
EC2 Storage-optimized instance ty					
Nitro	Underlying virtualization infrastructure for current-gen EC2 instances.				
Graviton	Custom Arm-based processor designed to provide optimal price-performance ratio.				
Inferentia	AWS custom silicon for deep learning.				
EC2 instance lifecycle	INSTANCE LIFECYCLE DIAGRAM				
Enhanced networking	Use Elastic Network Adapter (ENA) to support network speeds of up to 100 Gbps				
Placement group	Placement groups influence the placement of a group of interdependent instances:				
EBS optimized	EBS optimized instances deliver dedicated bandwidth to EBS.				
EC2 user data	Small chunk of data (16KB max) that must be base64-encoded				
EC2 burstable instance types	T2, T3, T3a, T4g				
EC2 AMIs	- EBS-backed:				
EC2 metadata	Instance metadata is data about your instance that you can use to configure or manage the running instance. Instance metadata is divided into categories, for				
EC2 instance store	An instance store provides temporary block-level storage for your instance. This storage is located on disks that are physically attached to the host computer				
EC2 pricing models	- On-Demand: expensive, no commitment				
FC2 On-Demand	- most expensive				
FC2 Reserved Instances	- up-front payment in exchange for lower prices				
EC2 Spot instances	- pay market rates				
EC2 Savings Plans	- optional up-front payment				
EC2 Dedicated Instances	- Optional op-notin payment - Physical EC2 server dedicated to your use				
	- Instance store:				
EC2 root volumes EBS	- instance store: Elastic Block Store				
EBS volume types	SSD:				
EBS snapshots	point-in-time snapshots of your volumes to Amazon S3.				
EBS encryption	Seamless encryption of EBS data volumes, boot volumes and snapshots, eliminating the need to build and manage a secure key management infrastructure				
	BS automated way to back up data stored on EBS volumes by ensuring that EBS snapshots are created and deleted on a custom schedule. No scripts or extern				
EBS elastic volumes	Elastic Volumes allows you to dynamically increase capacity, tune performance, and change the type of any new or existing current generation volume with r				
S3 encryption	Encryption at rest:				
ELB	An Elastic Load Balancer distributes incoming application traffic across multiple targets, such as Amazon EC2 instances, containers, IP addresses, and Lambda f	functions.			
EC2 autoscaling groups	A collection of EC2 instances treated as a logical group for purposes of scaling				
Autoscaling policies	Types:				
Autoscaling: simple scaling	The original scaling model for AWS Autoscaling groups				
Autoscaling: step scaling	Scaling can be specified for *how much* a CloudWatch alarm is breached.				
Autoscaling: target tracking	You set a target value for a metric (e.g. CPU load), and the ASG automatically scales up and down to try to maintain that target value.				
	Journal (1.5)				

Autoscaling: warm up	During a specified warm-up period, new instances are not counted toward the aggregated metrics of the group; this prevents excessive spin-up						
Autoscaling: cool down	After a scale-up occurs, the ASG waits for a cooldown period to complete before any further scaling activities can start (only applies to simple scaling)						
Autoscaling: notifications	Amazon EC2 Auto Scaling supports sending Amazon SNS notifications when the following events occur:						
Autoscaling: launch configurations	A launch configuration that specifies things like:						
Autoscaling: launch templates	A launch template is similar to a launch configuration, but it allows versioning; several versions can share some common configuration (e.g. the AMI), but diffe	r in other configu	ration values (e.g.	the instance type)			
Security groups	A security group acts as a virtual firewall for your EC2 instances to control incoming and outgoing traffic.						
Elastic IPs	a static public IPv4 address designed for dynamic cloud computing.						
VPCs	A logically separated portion of the AWS cloud. Provides for:						
Subnets: public	A public subnet is a subnet that's associated with a route table that has a route to an Internet gateway.						
Internet gateway	An internet gateway is a horizontally scaled, redundant, and highly available VPC component that allows communication between your VPC and the internet.						
NAT gateway	You can use a network address translation (NAT) gateway to enable instances in a private subnet to connect to the internet or other AWS services, but preven	nt the internet from	n initiating a conn	ection with those instances.			
NACLs	Network ACL		g				
ELB types	- Application Load Balancer (ALB)						
ELB: LCU	Load Balancer Capacity Units - used for billing by Application and Network load balancers						
ELB: internal vs external	An internal ELB has only a private IP address and routes traffic within the VPC.						
ELB: listener	ALBs use listeners — a listener is a process that checks for connection requests, using the protocol and port that you configure.						
ELB: health check							
	The ELB periodically makes requests to the targets to determine their health.						
ELB: multi zone	Need to enable the AZ for the ELB, and you need to add targets in the AZ						
Lambda	Serverless platform						
Lambda: API Gateway	API gateway routes HTTP requests to Lambda functions						
Lambda functions	Basic settings:						
Lambda: supported languages	Java, Go, PowerShell, Node.js, C#, Python, and Ruby						
Lambda: layers	A layer is a ZIP archive that contains libraries, a custom runtime, or other dependencies.						
Lambda: database proxies	You can define an RDS proxy for your function						
Lambda: VPCs	When you connect a function to a VPC, Lambda creates an ENI for each combination of security group and subnet in your function's VPC configuration						
Lambda: permissions	The execution role grants it permission to access AWS services and resources						
Lambda: invocation	Invocation can be asynchronous or synchronous						
Lambda: autoscaling	Autoscaling accomodates an intial burst, followed by a gradual scale-up						
EC2 reserved instance types	Offering classes:						
EC2 capacity reservation	reserved instances that are AZ-specific come with a capacity reservation						
RDS	Relational Database Service						
RDS Database Types	- Aurora						
RDS Multi-AZ	- a standby replica of the database is maintained in another AZ						
RDS Read Replicas	- read replicas are read-only replicas that allow you to horizontally scale up a read-heavy application						
RDS Backup	- RDS creates and saves automated backups of your DB instance during the backup window of your DB instance						
RDS authentication	All RDS DB types support password authentication.						
Aurora	MySQL and PostgreSQL-compatible relational database						
Aurora serverless	Fully auto-scaled; you don't specify a number of instances						
Aurora Global Database	Aurora database replicated across regions						
S3 Security	- Bucket policy (what principals can do what to this bucket)						
DynamoDB	Fully managed NoSQL key/value and document database						
DynamoDB consistency	- Eventually consistent reads (default)						
DynamoDB durability/availability	data is stored on SSDs and is automatically replicated across multiple AZs within an AWS region						
DynamoDB capacity modes	On-demand capacity mode: charged for data reads/writes on your tables						
DynamoDB pricing	charged for:						
DynamoDB Accelerator (DAX)	fully managed, highly available, in-memory cache for DynamoDB						
DynamoDB Streams	Captures a time-ordered sequence of item-level modifications in a DynamoDB table and stores this information in a log for up to 24 hours						
DynamoDB backup/restore	- on-demand backups: full backups of tables; charged per GB of data stored						
DynamoDB encryption	All customer data is encrypted at rest by default						
DynamoDB keys/indexes	primary key						
DynamoDB primary keys	- simple primary key: uses a single attribute to identify an item (e.g. OrderID)						
DynamoDB local secondary indexes							
	- used to query items across partition keys						
DynamoDB item types	- used to query items across partition keys						
ElastiCache							
FlastiCache - Memcached	fully managed key/value storage (faster than DynamoDB, but not durable)						
ElastiCache - Redis	- useful for transient data like cache and session store						
	- redis is similar to memcache, but it has much richer queries and data types						
Elasticache - Security	- runs in your VPC						
Route53	A highly available and scalable DNS service. Provides three main functions:						
Route53: Simple Routing	Standard DNS records with no special routing (like weighted or latency)						
Route53: Weighted Routing	Allows you to associate multiple resources with a single domain name and choose how much traffic is routed to each resource						
Route53: Latency-based Routing	Cross-region routing - create latency records for your resources in multiple regions.						
Route53: Failover Routing	Routes to a primary resource when it is healthy or to a secondary when the primary is not healthy.						
Route53: Geolocation Routing	Lets you choose the resources that serve your traffic based on the geographic location of your users.						
Route53: Geo-proximity Routing	Use the Traffic Flow UI to specify a location for each region, along with a bias						
Route53: Multi-value Answer Routing	Returns multiple values (e.g. multiple IP addresses) for your web servers						

D					
Route53: Traffic Flow	GUI that lets you build complex routing policies by chaining rules, turning on health checks, etc				
Route53: Alias Record	Route53 alias records are a Route53-specific extension to DNS functionality				
Route53 Resolver	Unifies DNS resolution in a hybrid cloud implementation:				
Route53 Health Checks	Health checks monitor the health and performance of your resources.				
Route 53 pricing	Small monthly cost for each zone				
IAM	Identity and Access Management				
IAM Identities	- Account root user - has full access to everything (and can't be reduced)				
IAM Users	- MFA can be turned on by the user (can't be turned on by the admin for a user)				
IAM Groups	- Policies attached to group apply to all users in the group				
IAM Roles	An IAM identity with specific permissions				
IAM Policies	Managed policies: standalone policy created and administered by AWS; designed to provide permissions for many common use cases (e.g. AmazonDynam				
IAM Best practices	- Don't create access keys for your AWS account root user unless you absolutely need to	ic .			
· ·					
CloudWatch	Monitoring and observability for cloud applications				
CloudWatch: Dashboards	Create re-usable graphs to visualize your cloud resources in a unified view				
CloudWatch: Events	- can respond to an action (like a change in the AWS environment, or somebody using root credentials to sign in)				
CloudWatch: Alarms	Allow you to set a threshold on metrics and trigger an action	Allow you to set a			
CloudWatch: Logs	Monitor, store, and access log files from EC2 instances, CloudTrail, Route53 and other sources				
CloudWatch: Metrics	- collects metrics from more than 70 AWS services (including EC2, DynamoDB, S3, etc) with no action on your part				
CloudWatch: agent	Installed on the guest OS				
CloudWatch pricing	- monthly cost per metric				
CloudTrail	continuous monitoring of activity across your AWS infrastructure				
CloudTrail: Events	Activity is recorded as CloudTrail events:				
CloudTrail: CloudWatch Alarms	**				
Cloud Trail: Cloudwatch Alarms CloudTrail: Security	CloudWatch alarms can be tied to CloudTrail metrics to alert you when specific actions are taken (e.g. a bucket policy is changed) Logs can be encrypted using KMS				
CloudTrail: Athena	Use Athena to analyze CloudTrail logs				
Kinesis	AWS solution for collecting, processing, analyzing real-time streaming data				
Kinesis Data Streams	Durability: streaming data is replicated across three AZs; data is stored for 7 days				
Kinesis Firehose	Data immediately disappears once processed				
Kinesis Data Analytics	Allows you to perform queries in real-time against a Data Stream or Firehose input				
Kinesis Video Streams	Secuely ingests and stores video and audio , feeding it to consumers such as SageMaker, Rekognition, or other services				
CloudFront	Cloudfront is AWS's CDN, primarily used for speeding up websites by providing cached static content to users at the edge				
CloudFront edge locations	Over 200 points of presence.				
CloudFront web distributions	Specifies things like:				
CloudFront: writing to distributions	A distribution can be enabled to accept POST, PUT, DELETE, OPTIONS, and PATCH requests, allowing you to write content to the distribution				
CloudFront: cache behaviors	A distribution has a default cache behavior, and you can add additional ones (e.g. a cache behavior that applies to images)				
	Customer is charged for the following:				
CloudFront: pricing CloudFront: distribution types	- web distribution (static web content)				
,,					
CloudFront: origin access identity	OAI allows CloudFront to serve from non-public S3 buckets				
CloudFront: restricted content	restrict access to files for selected users, for example, users who have paid a fee.				
CloudFront: signed cookies	Signed cookies are best in these cases:				
CloudFront: signed URLs	Signed URLs are best in these cases:				
CloudFront: Lambda@Edge	Allows you to execute functions at the edge to customize the content delivered by CloudFront				
CloudFront: distribution settings	- use an AWS WAF Web ACL				
SQS	SAS is a fully managed message queuing service (like Sidekiq or RabbitMQ)				
SQS: queue types	- standard queues: maximum throughput, best-effort ordering, at-least-once delivery				
SQS: security	- use IAM to grant permission to read from and write to specific queues	-			
SQS: pricing	Purely based on number of requests				
SQS: long polling	Reduce extraneous polling and receive new messages as quickly as possible.				
SQS: retries, DLQ	If the processing falls, the visibility timeout will expire and the message will be available again				
SQS: visibility timeout	When a consumer receives and processes a message from a queue, the message remains in the queue				
SQS: message retention	SQS can retain messages from 60 seconds to 14 days				
SQS vs Amazon MQ	Amazon MQ is a managed Apache ActiveMQ service and supports queue and broadcast protocols like AMQP, JMS, etc.				
SQS vs SNS	SNS is a distributed pub-sub system. All messages are pushed to all receivers				
SNS	Fully managed pub/sub messaging service				
SNS: supported receivers	- HTTP/HTTPS endpoints				
SNS: security	- use IAM to grant permission to subscribe to and publish to specific topics				
SNS: retries, DLQ	If an endpoint is not available, SNS will execute a retry policy.				
SNS: availability	Data is replicated across AZs				
SNS: AWS services with publishing s	su Over 30 services support publishing to SNS, including:				
SNS: message filtering	Subscribers can specify a filter policy so that it only gets a subset of the messages posted to a topic				
SNS: pricing	Strictly pay-as-you go				
CloudFormation					
	CloudFormation is a templating system which allows you to automate the provisioning of AWS resources and third-party resources				
CloudFormation: devops	Can house your CloudFormation templates in a git repository and deploy to your AWS environment via a CI/CD pipeline				
CloudFormation: NestedStacks	Allow you to break up your template into smaller reusable templates that can be composed together into a larger template				
CloudFormation: template anatomy	- Description: text string describing the template				
SWF	Simple Workflow Service				

014/57 // 1/4										
SWF functionality	- maintains application state									
SWF implementation	- define a workflow									
OpsWorks	Configuration management service that provides managed instances of Chef and Puppet									
Well-Architected Framework	Pillars:									
Well-Architected Framework:	- perform operations as code									
Well-Architected Framework:	- implement a strong identity foundation									
Well-Architected Framework:	- automatically recover from failure									
Well-Architected Framework:	- democratize advanced technologies									
Well-Architected Framework:	- implement cloud financial management									
Well-Architected Framework:	- stop quessing your capacity needs									
VPC Endpoints	Allow you to communicate with supported AWS services without the traffic traversing the public network (it all stays inside your VPC)									
VPC Endpoints: Interface endpoint	An interface VPC endpoint (interface endpoint) enables you to connect to services powered by AWS PrivateLink.									
	A gateway that you specify as a target for a route in your route table for traffic destined to a supported AWS service.									
VPC Endpoints: Gateway endpoint										
PrivateLink	Provides private connectivity between VPCs and services hosted on AWS or on-premises, securely on the Amazon network.									
EFA	An EFA is an Elastic Network Adapter (ENA) with added capabilities. It provides all of the functionality of an ENA, with an additional OS-bypass functionality.									
Elastic Beanstalk	An orchestration service for applications leveraging various AWS services, including EC2, S3, SNS, CloudWatch, autoscaling, and Elastic Load Balancers									
	Go, Java, .NET, Node.js, PHP, Python, and Ruby									
Elastic Beanstalk: components	- application: a logical container for the project									
Security Token Service (STS)	A web service that enables you to request temporary, limited-privilege credentials for IAM users or for users that you authenticate (federated users)									
DataSync: Verification	AWS DataSync locally calculates the checksum of every file in the source file system and the destination and compares them.									
Server Migration Service	Automates the migration of your on-premises VMware vSphere, Microsoft Hyper-V/SCVMM, and Azure virtual machines to the AWS Cloud.									
Autoscaling: termination policies	Governs the selection of instances to terminate in a scale-in situation									
Autoscaling: lifecycle hooks	Lifecycle hooks enable you to perform custom actions by pausing instances as an Auto Scaling group launches or terminates them.									
	An ASG can be comprised of on-demand and spot instances.									
Organizations	Organizations helps you to centrally manage billing; control access, compliance, and security; and share resources across your AWS accounts.									
•	RAM lets you share your resources with any account or through Organizations.									
	e SCPs are a type of organization policy that you can use to manage permissions in your organization									
CloudFormation: drift detection	Detects any changes to the current stack configuration to the one specified in the template and reports differences.									
EC2: billing (hours/seconds)	Per-second billing is available for Linux instances; per-hour for all other instance types									
AWS Global Accelerator	Global Accelerator uses the AWS global network to route traffic to the optimal regional endpoint based on health, client location, and policies that you configur	re.								
AWS Global Accelerator vs Route 53	With Route 53 geolocation, you have to deal with DNS caching; Global Accelerator doesn't use DNS to route traffic.									
Redshift	Amazon Redshift is a fully-managed petabyte-scale cloud based data warehouse product designed for large scale data set storage and analysis. It is also use	ed to perform large	scale database	migrations.						
AWS Key Management Service	KMS is a secure and resilient service that uses hardware security modules that have been validated under FIPS 140-2 (or are in the process of being validate									
AVVO NCy Wanagement Octvice	TAWO IS a Secure and resilient service that uses hardware security modules that have been validated under 1 15 3 140-2 (or are in the process or being validate	ed) to protect your I	reys.							
S3: Storage Class Analysis		ed) to protect your I	keys.							
S3: Storage Class Analysis	Lets you analyze storage access patterns to decide when to transition the right data to the right storage class. Delay queues let you postpone the delivery of new messages to a queue for a number of seconds, for example, when your consumer application needs additionable to the right storage class.			you create a delay	queue, any mes	sages that you ser	d to the queue remain ir	visible to cor	nsumers for the duration	on of the delay period.
	Lets you analyze storage access patterns to decide when to transition the right data to the right storage class. Delay queues let you postpone the delivery of new messages to a queue for a number of seconds, for example, when your consumer application needs additionable to the result of the res			you create a delay	queue, any mes	sages that you ser	d to the queue remain ir	visible to con	nsumers for the duration	on of the delay period.
S3: Storage Class Analysis SQS: delay queue Elastic Container Service	Lets you analyze storage access patterns to decide when to transition the right data to the right storage class. Delay queues let you postpone the delivery of new messages to a queue for a number of seconds, for example, when your consumer application needs additi ECS is a fully managed container orchestration service.			you create a delay	queue, any mes	sages that you ser	d to the queue remain ir	visible to cor	nsumers for the duration	on of the delay period.
S3: Storage Class Analysis SQS: delay queue Elastic Container Service Elastic Container Registry	Lets you analyze storage access patterns to decide when to transition the right data to the right storage class. Delay queues let you postpone the delivery of new messages to a queue for a number of seconds, for example, when your consumer application needs additionable and for the properties of th	tional time to proce		you create a delay	queue, any mes	sages that you ser	id to the queue remain in	ivisible to cor	nsumers for the duration	on of the delay period.
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S3: Storage Class Analysis SQS: delay queue Elastic Container Service Elastic Container Registry Fargate CloudTrail: cross-region	Lets you analyze storage access patterns to decide when to transition the right data to the right storage class. Delay queues let you postpone the delivery of new messages to a queue for a number of seconds, for example, when your consumer application needs addition a fully-managed container orchestration service. A fully-managed Docker container registry, integrated with ECS Fargate is a servertiess compute engine for containers that works with both Amazon Elastic Container Service (ECS) and Amazon Elastic Kubernetes Service You can turn on a trail across all regions — CloudTrail will deliver log files from all regions to the S3 bucket and an optional CloudWatch Logs log group you specified.	tional time to proce		you create a delay	queue, any mes	sages that you ser	id to the queue remain in	ivisible to cor	nsumers for the duration	on of the delay period.
S3: Storage Class Analysis SQS: delay queue Elastic Container Service Elastic Container Registry Fargate CloudTrail: cross-region FSx	Lets you analyze storage access patterns to decide when to transition the right data to the right storage class. Delay queues let you postpone the delivery of new messages to a queue for a number of seconds, for example, when your consumer application needs addition to service. A fully-managed Docker container orchestration service. A fully-managed Docker container registry, integrated with ECS Fargate is a servertess compute engine for containers that works with both Amazon Elastic Container Service (ECS) and Amazon Elastic Kubernetes Service You can turn on a trail across all regions — CloudTrail will deliver log files from all regions to the S3 bucket and an optional CloudWatch Logs log group you sy Fully managed filesystems	tional time to proce		you create a delay	queue, any mes	sages that you ser	id to the queue remain in	ivisible to con	nsumers for the duration	on of the delay period.
S3: Storage Class Analysis SQS: delay queue Elastic Container Service Elastic Container Registry Fargate CloudTrail: cross-region FSX FSX for Windows File Server	Lets you analyze storage access patterns to decide when to transition the right data to the right storage class. Delay queues let you postpone the delivery of new messages to a queue for a number of seconds, for example, when your consumer application needs additices a fully managed container or chestration service. A fully-managed Docker container registry, integrated with ECS Fargate is a serverless compute engine for containers that works with both Amazon Elastic Container Service (ECS) and Amazon Elastic Kubernetes Service You can turn on a trail across all regions — CloudTrail will deliver log files from all regions to the S3 bucket and an optional CloudWatch Logs log group you spruly managed file storage that is accessible over the industry-standard Server Message Block (SMB) protocol.	tional time to proce		you create a delay	queue, any mes	sages that you ser	d to the queue remain in	ivisible to con	nsumers for the duration	on of the delay period.
S3: Storage Class Analysis SQS: delay queue Elastic Container Service Elastic Container Registry Fargate CloudTrail: cross-region FSX FSX for Windows File Server FSX for Lustre	Lets you analyze storage access patterns to decide when to transition the right data to the right storage class. Delay queues let you postpone the delivery of new messages to a queue for a number of seconds, for example, when your consumer application needs addition a fully managed container or chestration service. A fully-managed Docker container registry, integrated with ECS Fargate is a serverless compute engine for containers that works with both Amazon Elastic Container Service (ECS) and Amazon Elastic Kubernetes Service You can turn on a trail across all regions — CloudTrail will deliver log files from all regions to the S3 bucket and an optional CloudWatch Logs log group you sp Fully managed filesystems Provides fully managed file storage that is accessible over the industry-standard Server Message Block (SMB) protocol. Lustre is a type of parallel distributed file system, generally used for large-scale cluster computing.	tional time to proce		you create a delay	queue, any mes	sages that you ser	id to the queue remain in	ivisible to con	nsumers for the duration	on of the delay period.
S3: Storage Class Analysis SQS: delay queue Elastic Container Service Elastic Container Registry Fargate CloudTrail: cross-region FSx FSx for Windows File Server FSx for Lustre VPC Flow Logs	Lets you analyze storage access patterns to decide when to transition the right data to the right storage class. Delay queues let you postpone the delivery of new messages to a queue for a number of seconds, for example, when your consumer application needs addition a fully-managed Docker container registry, integrated with ECS Fargate is a serverless compute engine for containers that works with both Amazon Elastic Container Service (ECS) and Amazon Elastic Kubernetes Service You can turn on a trail across all regions — CloudTrail will deliver log files from all regions to the S3 bucket and an optional CloudWatch Logs log group you specified files fully managed filesystems Provides fully managed filesystems Provides fully managed file storage that is accessible over the industry-standard Server Message Block (SMB) protocol. Lustre is a type of parallel distributed file system, generally used for large-scale cluster computing. A feature that enables you to capture information about the IP traffic going to and from network interfaces in your VPC.	e (EKS).		you create a delay	queue, any mes	sages that you ser	d to the queue remain ir	ivisible to con	nsumers for the duration	on of the delay period.
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ECS: task definitions	A task definition is required to run Docker containers in ECS. Some of the parameters you can specify in a task definition include:					
Health Checks: ELB vs ASG	Auto Scaling can use these health checks:					