

Review section

Questions	Notes
compute	<ul style="list-style-type: none"> • EC2: <ul style="list-style-type: none"> ◦ allows you to rent and manage virtual servers in the cloud • Lmabda: <ul style="list-style-type: none"> ◦ Lambda is a serverless compute service tthat lets you run code without managing servers • Fargate: <ul style="list-style-type: none"> ◦ is aserverless compute engine for containers • Lightsail: <ul style="list-style-type: none"> ◦ allows you to quickly launch all the ressources you need for small projects • Outposts: <ul style="list-style-type: none"> ◦ allows you to run cloud services in your internal data center
Storae	<ul style="list-style-type: none"> • S3: <ul style="list-style-type: none"> ◦ S3 is an object storage for the cloud that is haighly available ◦ EBS : is a storage device (called a volume) that can be attached to (or removed) your instance ◦ EFS: is serverless network file system for sharing files ◦ Storage Gateway: is ahybrid storage service ◦ Backup : helps you manage data backups across multiple data services
content delivery	<ul style="list-style-type: none"> • CloudFront: is a CDN that delivers data and applications globally with low latency • Global accelerator : sends your users through the aws global network when accessing your content , speeding up delivery • S3 transferrn acceleration: <ul style="list-style-type: none"> ◦ Improves content uploads and donwloads to and from S3 bucket
Networking	<ul style="list-style-type: none"> • Route 53: <ul style="list-style-type: none"> ◦ is a DNS Service that routes users to applications • VPC(Virtual private cloud) <ul style="list-style-type: none"> ◦ Vpc is Foundational service that allows you to create a secure private network in the aws cloud where you launch your ressources • Direct connect: <ul style="list-style-type: none"> ◦ Direct connect is a dedicated physical network connection from your on-premises data center to aws • Virtual private Network (VPN) <ul style="list-style-type: none"> ◦ Site-to-site VPN creates a secure connection between your internal networks and your aws VPCs • API Gateway: <ul style="list-style-type: none"> ◦ Allows you to build and manage APis
Databases	<ul style="list-style-type: none"> • Relational Databases service(RDS): <ul style="list-style-type: none"> ◦ RDS is a service that makes it easy to launch and manage relational databases • Aurora: <ul style="list-style-type: none"> ◦ Aurora is a relational database compatible with MYSQL and pstgreSQL that was created by aws • DynamoDB: <ul style="list-style-type: none"> ◦ is a fully managed NOSQL key-value and document database • DocumentDB: <ul style="list-style-type: none"> ◦ is a fully managed document database that supports Mongodb ◦ ElastiCache is a fully managed in-memory datastore compatible with Redis or Memcached • Neptune: <ul style="list-style-type: none"> ◦ is a fully managed graph database that supports highly connected datasets
Migration and transfer	<ul style="list-style-type: none"> • Database migration service(DMS) <ul style="list-style-type: none"> ◦ Helps you migrate database to or within aws • Server migration service (SMS) <ul style="list-style-type: none"> ◦ SMS allows you to migrate on-premises servers to aws • Snow family: <ul style="list-style-type: none"> ◦ The snow family allows you to transfer large amounts of on-premises data to aws using a physical device • Datasync: <ul style="list-style-type: none"> ◦ allows for online data transfer from on-premises to aws storage services like s3 or EFS

Analytics	<ul style="list-style-type: none"> • Redshift: <ul style="list-style-type: none"> ◦ Redshift is a scalable data warehouse solution • Athena: <ul style="list-style-type: none"> ◦ is query service for amazon S3 • Glue : <ul style="list-style-type: none"> ◦ Glue prepares your data for analytics • Kinesis: <ul style="list-style-type: none"> ◦ allows you to analyze data and video streams in real time • Elastic Mapreduce (EMR)/ <ul style="list-style-type: none"> ◦ EMR helps you to process large amounts of data • Data Pipeline : <ul style="list-style-type: none"> ◦ helps you move data between compute and storage services running either on aws or on-premises • QuickSight: <ul style="list-style-type: none"> ◦ helps you visualize data
Machine learning	<ul style="list-style-type: none"> • Rekognition: <ul style="list-style-type: none"> ◦ allows you to automate your imae and videos analysis • Comprehend: <ul style="list-style-type: none"> ◦ is a natural language processing (NLP) service that finds relationships in text • Polly: <ul style="list-style-type: none"> ◦ turns text into speech • SageMaker: <ul style="list-style-type: none"> ◦ helps you build , train , and deploy machine learning models quickly • Translate: <ul style="list-style-type: none"> ◦ translate provides language translation • Lex: <ul style="list-style-type: none"> ◦ helps you build conversional interfaces like chatbots
Developer tools	<ul style="list-style-type: none"> • Cloud9 : <ul style="list-style-type: none"> ◦ Allows you to write code within an integrated developement environment (IDE) from within your browser • CodeCommit: <ul style="list-style-type: none"> ◦ is a source control system for private GIT respositories • CodeBuild: <ul style="list-style-type: none"> ◦ Allows you to build and test your application source code • CodeDEploy : <ul style="list-style-type: none"> ◦ manages the deployment of coe to compute services in the cloud or on-prmeises • CodePipline: <ul style="list-style-type: none"> ◦ Automates the software release process • X-RAY: <ul style="list-style-type: none"> ◦ helps you debug production applications
Deployment and infrastructure management	<ul style="list-style-type: none"> • CloudFormation: <ul style="list-style-type: none"> ◦ allows you to provision aws ressources using infra as code • Elastic beanstalk: <ul style="list-style-type: none"> ◦ Elasticbeanstalk allows you to deploy your web apps and web services to aws • OpsWorks: <ul style="list-style-type: none"> ◦ allows you to use Chef and Puppet to automate the configuration of your servers and deploy code
Messaging and integration	<ul style="list-style-type: none"> • SQS <ul style="list-style-type: none"> ◦ is a message queuing service that allows you to build loosely coupled systems • SNS: <ul style="list-style-type: none"> ◦ allows you to send emails and text messages from your apps • SES: <ul style="list-style-type: none"> ◦ is an email service that allows you to send richly formatted HTML emails from your applications
Auditing , Monitoring and logging	<ul style="list-style-type: none"> • CloudWatch : <ul style="list-style-type: none"> ◦ a Colection of services that helps you monitor and observe you cloud ressources • Cloudtrail: <ul style="list-style-type: none"> ◦ Tracks user activity and API calls within your account