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EC2 Instance Store		Elastic Load Balancing	& Auto Scaling Group (cont)
EBS	Persist data if terminateMount one instance at timeBound specific AZ	Auto Scaling Group	Ensure min max instance runRegister new instanceReplace unhealthy instance
EBS Snapshot	Backup EBSCopy across AZ or regionFeature:+ Archive+ Recycle Bin for EBS Snapshot		- Scaleing strategies: + Manual Scaling + Dynamic Scaling => Simple/Step scaling => Target tracking scaling
	- Customization EC2 - Launch instace From (public AMI, private)		=> Schedule scaling + predictive scaling
	AMI and AWS Marketplace AMI) - Create, maintain, validate, test EC2 AMI - Can run schedule - Free service - Lose storage if stop - For buffer or cache	S3	unit nameS3 global, bucket regionS3 contain:bucketObject
EC2 Image Builder			
EC2 Instance Store		Snow Family	- Data migrate: + Snowcone (8TB)
EFS	- Can mounted 100 EC2 - Work linux-multi AZ - EFS-IA (Infrequent Access): Auto move file EFS to EFS-IA - FSx: + Launch 3rd party + Build on Window File Server + Integrate Microsoft Active Derectory		+ Snowbolle (61B) + Snowball Edge (80TB) (TB or PB) + Snow mobile (EB) better > 10 PB - Edge computing
		OpsHub	- Software manage snow family
		AWS Storage Gateway	Connect on-premise and cloudType:+ File gateway+ Volumn gateway

Elastic Load	- 3 kind:
Balancer	+ Application load balancer (HTTP/HTTPS -
	layer 7)
	+ Network load balancer (TCP - layer 4)
	+ Classic load balancer (layer 4 & layer 7)

	+ Tape gateway
Database	
AWS RDS	- Multi AZ- Scale verticle and horizontal- Store blocked by EBS- Simlify for database admin
Amazon Aurora	
Amazon Elastic Cache	Cache for RDS



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Database (cont)	
DynamoDB	- 100TB - Type: + standard + Infrequent Access (IA) - Integrate IAM
DynamoDB Accelerator (DAX)	Cache for DynamoDB
Redshift	Warehourse
EMR (Elastic MapReduce)	Big data, hadoop
Athena	analyze data S3
QuickSight	- Machine learning- Bussiness intelligent (BI)service
DocumentDB	For mongoDB
Neptune	- Graph database - For social network
QLDB (Quantum ledger database)	book (ledger)
Amazon manage blockchain	blockchain
AWS Glue	extract, move S3
DMS (Database migrate service)	MigrateSupport:+ Homogenerous migrates+ Heterogenerous migrates

Other Compute	
ECS	Launch docker containernot serverlessIntergrate Application load balacer
Fargate	- launch docker container - Serverless
ECR (Elastic Container Registry)	Store docker image
AWS Lamda	You only upload code, lamda will run code deploy for youJava, Nodejs, Python

Other Compute (cont))
Amazon API Gateway	- Build a serverless API
AWS Batch	- Launch EC2 or Spot Instance- Run by docker image & run on ECS
Lightsail	Simple create server for people little experience

experience			
Deploying and Managing	Deploying and Managing Infrastructure at scale		
Cloud Formation	Is a declarative way of outlining yourAWS InfrastructureRepeat across region & account.		
CDK (Cloud Developer Kit)	Defind infrastructure by language program		
Elastic Beanstalk	Developer centric view of deploy app on AWSEasy to user service deployPaasFree		
AWS Code Deploy	Deploy app autoHyrid serviceConfig CodeDeploy Agent		
AWS Code Commit	git repository		
AWS Code Build	Complies source code, run test		
Code Artifact	Manage depend on software package (npm,))		
Code Star	- Unified UI manage software in one place - Can edit Cloud 9		
Cloud 9	Cloud IDE		
SSM (Amazon System Manager)	- Manage EC2 and on-premise- SSM sission manager: start shell on EC2 not SSH not port- UI view operational data		
Opswork	chef & puppet		



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Global Infrastructure	
Route53	is a manage DNS
CloudFront	Content delivery network (CDN)DDos protectFile cacsheStatic content
S3 Cross Region Relication	- File update realtime - Read only, dynamic content
S3 Transfer Acceleration	Upload and download file to S3 bucket
AWS Global Accelerator	 Improve global app and performance 2 any cast ip Integrate Sheild No cache Improve TCP or UDP
AWS Outposts	- Hyrid- Server racks- Access AWS Infrastructure on - premise
AWS Warelength	5G Network
AWS LocalZones	place sesrvices closer to user

Cloud Intergration	
SQS	Queue
SNS	Push notifier
Kinesis	- Streaming
	- Type:
	+ Data stream
	+ Data Fire house
	+ Data analytic
	+ Video streaming
Amazon MQ	- For RabbitMQ, ActiveMQ
	- have SNS & SQS feature.

Cloud Monitoring	
Amazon CloudWatch	- Metrics: various monitor- Alarm: Trigger notify for metric- Logs: Realtime monitor log
Amazon EventBridge	Service allow access realtime change of AWS Service under SaaS
CloudTrail	 Govermance, complance and audit your account Resource deleted => view CloudTrail Record API your account
AWS X-Ray	- Debug in production
CloudTrail Insight	Auto analysis cloudtrail event
Amazon Code Guru	Code review and recommand2 function: Code Guru Reviewer and CodeGuru Profier
AWS Personal Health Dashboard	Remendiation guide when AWS experiency may impact you
AWS Services Health Dashboard	Status all AWS service across all regions

VPC	
Internet Gateway	Help VPC Connect internet
NAT Gateway	- Private subnet to access internet - AWS manage
NAT Instance	- Private subnet to access internet - Self manage
NACL (Network ACL)	Firewall controls traffic to subnet
VPC Flow Logs	Capture info IP
VPC Peering	Connect two VPC
VPC Endpoint	Allow connect AWS Service use private network
AWS PrvateLink	Most secure & scalable way to expose a service to 1000s of VPCs.



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VPC (cont)		
DX (Direct connect)	 Make easy establish a declicate connect form on- premise network to one or more VPC in same region Private connect form data center to AWS 	
Client VPN	Connect your compute to private netwowrk user open VPC	
Transit Gateway	Transitive peering between thousand of VPC and on- premise, optimized network	

Security and Compliance	
WAF (Web Applic-	- Protect your web app (layer 7)
ation Firewall)	- Protect SQL Injection, cross site scripting
Penetration	Customer test infrastructure AWS
Testing	
AWS KMS	Encryption
Cloud HSM	Encrypt hardware
ACM (AWS Certif-	SSL/TLS Certificate
icate Manager)	
AWS Secret	Store secret
Manager	
AWS Artifact	Customer access AWS compliance/Security
	document and AWS agreement
AWS GuardDuty	- Inteligent protect
	- Against crypto currency attack.
AWS Inspector	Auto security assetment
AWS Config	- Audit & recording compliance your AWS
	resource
	- Config AWS resources
	- Keep track change your resources
	- Have Service AWS Config Resources
AWS Macie	Protect your sensitive data

Security and Compliance (cont)	
AWS Security Hub	Cental security tool across several AWS account and auto security check
AWS Detective	Analyze, quickly identifies root cause of security issue
AWS abuse	Report AWS resource use for abuse or illiegal purpose

Dakagnitian	Find chiest people tout
Rekognition	Find object, people, text,
Transcribe	Convert speech to text
Polly	Convert text to speech
Translate	Translate
Lex	Chatbot
Connect	Recieve call, message SMS
Comprehend	Natual language pocessing - NLP
SageMarker	Developer build ML Model
Forecast	Use ML to Forecast
Kendra	Document search (text, pdf,)
Amazon Personalize	Buil app realtime personal
Textract	Extract text, hand writing

Account Management, Billing & Support	
AWS Trust Advisor	 Tool realtime guildance help you provision your resource Check security group for rules allow urestrical aross
AWS Cost Explorer	View cost
Cost Allocation Tag	Categories and track resource view billing
CTO Calculator	Estimate cost save between AWS and on- premise
AWS Pricing Calculator	Estimate a month bill resource use
AWS Budgets	Set custm budgets to track your cost and usage.
Cost And Usage Report	Dive Deeper in your AWS cost and usage



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Account Management, Billing & Support (cont)	
Billing Alarm	Simple alarm costNot powerfull as AWS budget
AWS Basic Support Pla	an
AWS Business Support Plan (24/7)	- Production workload- Phone, email, chat to Cloud SupportEngineer
AWS Enterprise Support Plan (24/7)	 - Production or bussiness critaical workload - Mission critical workload - Access Techinical Account Manage (TAM) - Concierge Support Team - Infrastructure event manage, well-architect & opertationo reviews

Advanced Identity	
AWS STS Security Token Services	Create temporary, limit privilege credentials
AWS Cognito (Simplified)	Identity for web and mobileSign up, sign in (SAML & OpenID)You can create user by Cognito
AWS Directory Service	Manage Microsoft Active Directory

Other AMC Consise	
Other AWS Service	
Amazon Workspace	Virtual Desktop ComputingManage desktop as services (DAAS)Solutions.
Amazon Appstream 2.0	App streaming allow access vitual desktop
Amazon sumerian	VR, AR
Amazon IoT Core	IoT
AMazon Elastic transcoder	Convert media file S3 to media file

Other AWS Service (cont)	
AWS Appsync	Service allow developer build app with realtime or offline synced data.
AWS Device Form	Test web and mobile in browser
AWS Backup	Auto backup
DRS - Elastic Disaster Recovery	Quickly and easily recover your physical and cloud
AWS DataSync	Move large data on-premise to AWS
MGW AWS Application Migrate Service	lift and sift solution simle migrate app to AWS
FIS AWS Fault Injection Simulator	Run test fault injection
AWS StepFunction	Build workflow order to lamda
AWS GroudStation	Controll Sattelite Communicator
AWS Pinpoint	Scale 2 way (outbound/invound markerting)

AWS Architecting & Ecosystem	
AWS Well-Architecture Tool	Review your architect 6 pillas
AWS Right Sizing	Process matching instance type size your requirement
AWS Marketplace	Digital catalog with thousand of software
AWS Training	
AWS Professional Services & Partner Network	Is global team of exportAPN = AWS Partner Network
AWS Knowlege Center	Most frequently & Common question
AWS IQ	Quicky find help
AWS re:post	Question and Answer Services



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Other	
Quickstart	- Deploy popular technologies
AWS Storage gateway	- Hyrid cloud storage service
Services control policy (SCPS)	Are a type of organization policy you can use manage permission in your organization.
Service controll policy (SCP)	Retrict acount privileage
AWS Control Tower	Easy way to setup govern a secure and complant AWS environment base on best practice
AWS Compute Optimizer	Recomment optimizer resource your workload
AWS Analyzer	Identity resource external
SWF (Simple Workflow services)	is a web services easy to coordinate work across distribute application component

Experience

- 1) Advanced RDS o database admin => simplifies
- 2) VPC include multiple AZ
- 3) AWS Trust Advisior: Tool realtime guilidance help you provision your resource
- 4) AWS Health Dashboard: show issue impact your resource
- 5) AWS Cost Exploere: is used for view cost
- 6) S3 Store virtual unlimited
- 7) Cost Allocation Tags => categories and track resource after run view billing cost Explorer
- 8) Elasticity to resolve the issue of under utilization
- 9) AWS Direct Connect: provide private connect from data center to AWS
- 10) AWS Transit gateway: used for optimizing the network VPC and on-premise network.
- 11) EC2 hosts # Ec2 instance
- 12) Continually reduce price => economies of scale
- 13) Quick Start => deploy popular technologies on AWS
- 14) Cloud Formation => deploy infrastructure from template
- 15) AWS Artifact =>provide access AWS security and compliance report.
- 16) AWS Config: used for compliance relating config AWS resource.
- 17) IAM grant for S3 bucket => update principal

Experience (cont)

- 18) Launch EC2 Instance behind Elastic Load Balance => accross multi AZ in a single AWS Region
- 19) Database access operating system => EC2
- 20) Dynamo DB => config (customer), backup (AWS)
- 21) A sole manage reponsibility AWS => AZ manager
- 22) Agility (fast, quick) in one click
- 23) Elasticity Infrastructure scale base on demand.
- 24) Fault tolerance Ensuring app stay available in the event of a fault.
- 25) CTO Calculator estimat cost saving on AWS compare onpremise
- 26) AWS Pricing Calculator Estiamte a month bill resource use
- 27) IAM Roles not have standard long-term credentials
- 28) AWS Storage Gateway hyrid cloud storage servies
- 29) VPC establish connect between your on-premise network
- 30) AWS Budgets set custom budgets to trck your cost and usage
- 31) AWS config keep track all change your resource
- 32) In a higher available system the failer of a single component should not affect the app.
- 33) Quick Sight bussiness intellient (BI) service
- 34) Elastic Beanstalk Easy to user service deploy
- 35) Access key contain 2 part: an access key ID and a secret access key
- 36) Trust Advisor check security group for rules allow unrestricted access
- 37) Service control policy (SCPs) are a type of organization policy that you can use to manage permission iyour organization
- 38) Network ACL: chặn IP cụ thể (block IP)
- 39) Access Analyzer: ideatity resource etrnal
- 40) AWS System Manager: UI view operational data.
- 41) IAM user have an access key ID and secret access key
- 42) Sheild => in a edge location
- 43) Amazon Cognito can add user sign-up, sign-in and access control web & mobile (SAML) and OpenID
- 44) GuardDuty: account continous for malicious activity and unauthorized behavior.
- 45) AWS site-to-site VPN: encrypt traffic arcoss your network + Amazon workspace



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Experience (cont)

- 46) Amazon App Stream 2.0: is non-persistent desktop and application services for remotely access your work
- 47) AWS managed services (AMS): adopt scale and operate more efficiently and securely. Easily leave a lot of the heavy lifting to AWS.
- 48) FSX has standard server message block (SMB) protocol to access file over a network
- 49) Facility operation and hardware procurement cost are something you no longer to pay for in AWS cloud.
- 50) AWS Technical Account Mnager: provide expert monitoring and optimization for your environment and coordinates access to other pgram and experts
- 51) The company is resonsible for enabling encryptiion on the buckets S3
- 52) AWS ApplicatioDiscovery Service: help you plan your migrate AWS, collect usage and cofig data.
- 53) AWS Resource Groups: manage and auto task on large number of resource in one place.
- 54) AWS Service Catalog: reate and manage catalog IT services
- 55) SQS and Step Function: provide asynchonous itergrate
- 56) Amazon EC2 Dedicate host: allow use your iligoble software licenses from vendors.
- 57) Consolidated billing benefit: onebill, easy tracking, conbined usage, no extra fee.
- 58) AWS Health API is available to bussiness, Enterprise On-Ramp, Enterprise Support
- 59) AWS Storgae & Gateway has gateway virtual Tape library to backup software.
- 60) Resource performance monitor, event and leart => Cloudwatch
- 61) Account specific activity and audit => CloudTrail
- 62) Resource specific change history, audit, compliance => Config
- 63) Service Health Dashboard display the general status personal Health Daboard personal view.
- 64) Cloudformatio => same AWS infrastructure across multiple AWS Account and regions
- 65) Elastic Load Balance high availability, auto scleing and rebust security.
- 66) U2F security key use USB port on yr compute

Experience (cont)

- 67) Virtual MFA Sservice software app
- 68) Hardwrae MFA Device hardware device generate six-digital
- 69) SMS text message SMS
- 70) AWS Computed Optimizer: provide EC2, ELB, Lamda, Auto Scaling; not provide EFS, S3.
- 71) Cloudwatch enable central log on-premise and cloud.
- 72) IAM Credential Report: là loại báo cáo liệt kê all user và trạng thái thông tin đăng nhập của họ.
- 73) IAM Access Advisor: là 1 cố vấn truy cập, show ra các quyền dịch vụ được cấp cho user và thời điểm dịch vụ đó truy cập lần cuối.
- 74) AMI: là loại thiết bị ảo để tạo 1 máy áo
- 75) EFS: dịch vụ lưu trữ tệp
- 76) OpsHub: software quản lý Snow Family
- 77) AWS Storage gateway: hyrid access on-premise to AWS
- 78) AWS EMR: dịch vụ Hadoop (big data), kiểm soát cụm và phần mềm cài trên nó
- 79) Althena: analyze data S3
- 80) AWS Batch: run job batch trên nhiều AZ trong 1 region
- 81) Lightsail: tạo server cho người ít kinh nghiệm
- 82) Elastic Beanstalk: dịch vụ Paas giúp dễ dàng triển khai và mở rộng ứng dụng web và dịch vụ
- 83) AWS Code pipeline: tự động hóa quy trình deploy cho các bản cập nhật nhanh chống và ổn định.
- 84) CodeStar: Unifed UI in one place manage.
- 85) Quicksight: machine leaning, trực quan hóa dữ liệu business itelligent.
- 86) AWS System manager: cung cấp cho người dùng khả năng hiển thị và kiểm soát cơ sở hạ tầng trên AWS
- 87) OpsWorks: quản lý Chef & Puppet, sử dụng mã tự động cấu hình máy chủ.
- 88) Outpost: khách hàng truy cập cơ sở hạ tầng AWS, hyrid nhất quán.
- 89) Amazon Event Bridge: truy cập realtime những thay đổi trong dịch vụ AWS dưới dạng Saas
- 90) AWS CloudTrail: ghi lai lênh gọi API



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Experience (cont)

- 91) AWS Service Heath Dashboard: hiển thị tình trạng chung của ác dịch vu Å
- 92) NAT gateway: mạng private connect internet nhưng ngăn không cho internet kết nối đến Server đó.
- 93) NACL: lớp bảo mật như firewall kiểm soát ra vào của 1 hoặc nhiều subnet.
- 94) VPC Flow log: cho phép nắm bắt thông tin traffic đến và đi
- 95) AWS Private Link: là cách an toàn để kết nối VPC tới các dịch vụ AWS khác.
- 96) Forecast: dự báo chuỗi thời gian dựa trên máy học xây dựng phục vụ mục đích phân tích chỉ số kinh doanh
- 97) Artifact: Truy cập báo cáo trên thư và bảo mật.
- 98) GuardDuty: phát hiện mói đe dọa, inteligent protect
- 99) AWS Inspector: phát hiện lỗ hổng bảo mật tự động, phát hiện lỗ hổng bảo mật và khả năng xâm nhập qua mạng
- 100) AWS Security Hub: cảnh báo bảo mật ưu tiên cao và trạng thái tuân thủ trên các tài khoản AWS.
- 101) AWS Step Function: luồng công việc cho Lamda
- 102) AWS Pinpoint: marketing
- 103) Direct connect
- 104) Transit gateway
- 105) AWS Detective: root cause



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