Domain 1 Core Concepto Well another Frambook

det till Es tis Do Perational exlance Pillar!

- focuses on running and monitring sysmts

- always improve it

- let to Pic, & auto changles + tespoding to events Legipal1 1 define standered to manage

اللما

2 securty Pillary

- Focuse on protection of information and

Daily oferations

- Ket to Pics + Canfidoniality of Date +integrity of Data * manging user Permissions s establish control to dectect seewith event

[3] Reliability Pillars

المصرافيت في رجمي الخرما ع

- Fo Cuses on Workloads Perfere Amer Function or not

- How to Recover From Foular

- Ret to Acc ! a Distributed Systems design

+ Recovery Planning * adulting to Changes requirements

Flicalabers - List organil at 30 65

- Focuse on structured and streamlined allocation of IT, computing Resources

- Re) to Pis : * select resource title and size offinized for workloads 4 Monitor of Performance + business needs evolve

5 Gst offimization Pillar!

poly coill costo was to

تخصيف التكليف

- Focus on avoid unnessary Costs

- key topics + ascient resource right the and + scalling to meet business needs Without overspending

6) 545tainability Pillar Doll of Levil a Will

- Forks on minimizing theeminomenta impact of Running Cland Workloads.

- Key to Piss + + shared Responsbillty models

+ understanding impact

* maximizeufilizatio to minimize required resource

& reduce Downstreem

Domain El 1 security and compliance service

(A) Aws shilled; anti DDos, stander is Free

B) WAF + anti- salintection, site scripting

- ms roles to manage Acresability

e) Jems (eneryption D) (loud Hom (encryption Hardwar)

E) Acm (certificates) F) secrets mange

9) Amazon macle (Selver sensitive doctor)

DAmozon inspector (Vurnostilites Scamor)

1) From Duty (Malticians Activity

DAWS Confict, Record Configurations changes (Cold)

M security Hub). Dush bourd "Show status on multiple Accounts

& Aws Artifalt: Reforts of Searity, complainte cent agreement, also Payments

D'Amazone Detective, - to know reof cause of prespiems related to security

D) Aws cloud Front with NVAF! - can be anti DDes

Domain & Jechnologis-(2) -> Networking > Cloud Computing services. DVPC 1- isolate Jon resource , Per region [EC2 Instance El subnets In VPC 1 Private & Addic [2] load balanters ! Distribute lands 13) ACL For Control the submet 3) Anto scaling granfs 1 sto reduce costs a) security groups; on insteme & remove un Healty instance FII Elastic Beaustalk 1. PAAs to Run Jone ADP -7 Network Service + magic, No Informits
Provision the needed infra 1 UPC end Points? Private linke on cloud, No internet 11945 tail 1 Simple web - wordpress a Revstudents Alus Jambola 1 to Rem Embliens or script 2) VPC Flowled; Copture the traffic From - Serverless The NIC of instance forts صاالعل عد الكور وصدها على على B) Cloud Front ! CDN, edge colation, Galh 16 Aws Desktops Aws Batch! for schadul Jobs & processing [4] Mobal Accelerations Use edge locations to Improve apps performence Contains instance! ECS & Exs (reserved) 15) Rout 53! managed DNS; Container images Refi ECR - Domein Register, has Policies & Rober 1 10 Fargate: - Borver less to Run Confainor to antrel Comming traffic
- forward traffic - toleranti sql-Indections 1 Note: recoverges 3 Database Services > storage services , I relational DB (SEL) 1153 !- objects units, versioning, static websites A) ROS -> Structured Data, with Englis Meller 4 Full manages ELES! Hounddrive on the cloud , - one to one G only monge wers & Network & Permission and Data enery Pjun Snow Sheets for Duarbility (Cost Multi AZ Deployments Laws manage Brickup, Tun in effective, high performance 3 EFS! - Showed, protocol, Pay for what you use. Private UPC B) Aus Autor (for my set & Postgresa) 4) Storage getway ? for Hypind 12 NON- Relation DB; Dynamo DB !- serveles1 5 Snow Cono - Key Value - anto sail - Microsecond letency (6) Snow Ball - Commits and Buckup - Flexable Scheng 7 Snowmobil -ACID 3 In memor) + elastic Cach , for sessions, and 18 J. FSX :- Windows based, Jor Tryfor (Timux media streaming, mysel in memory > Compare between 53 tyls 5now family FI graph : Neptune, for social media, Frand Detection and recommention engine Sizes, ecz Anstance tipes B) Rad shift (Data wor Hous) ! for analysis Wing Sal queries, (Refy for beta - Doctor - Free up to 256B storage

and event logs related to porformenes his age - collect metrees but recommed from will bed on your support Plan include on all Dans [2] SNS: Publisho, sont text, email, Http edification [3] Aws Code Bura; Developer tool, help in 3) event Bridge: Publisho , like 500s, but sub con set Rules for what beense, can schadule -> Build & Deploy Coding [Cloud 9: browse IDE to write codes, 4110W R) Code Commit: Private Refo 3 Code Build West CItad [4] code deploy . L' to instance, Manage infrostructer Ler you (5) Codestar! Interface tomanage allof this [ZI and Ololinoi (1) tool

Data amalytics service

(3)

[] Athena! servertess to analysis Data on 53 using SQL queries

El Rienesis Formity !- for real time streuming - Used to reconcition Customer Fales anti thirt

3 aricksight , Bussiness intelligence, makes Joh Build your Dash beard of los

4) SMRI hosted hadoop, Aprelhe sporg for Big Data processing using duster - For large - scale, machien learning

- Support sal queries

ather services from the exams

I Penetroton test 1- customer con Perform It ما كمتهار الدي عمرات عام on his Ecz

[] X-Ray: to debug apps , DevolPers uge 14 to defin root cause of probles but on apps level Not on security 11k. Aws Dete Etime

How to improve quality of code, remode expensive lines

14 Aws Polly: Convert Fext to speach ينقرا العكلام دمكولو لهيوس

(5) Aws transcribe: and to text, search
b) and ieo and media subtite and

16) Elemental meeta Converter: Viedo Processor X

16) Aws translator: like transcribe-

FI Aws sagemarker; for build & Deploy me model

181 Aws rekognihertion! At to analyze media, give you human view about it

13 Amorcan Connect! - Contact Customer service Amzon Parpoint, 1 Flexuble Inbond & outbound markting team, con send bulk of marking emails

Mas of entropy of operation lab help You to manage all of your Resource

12) Aws Compute ofthiszer.

- recommands of timal Aws resource to Vaduce Cost and improve Perfermance using AI and analyze your meteroes

(13) Amorton Cognite: Sign-In Jos using API of John social media

- authentication and access Control to web and mobile

14) Aus Whet Somethes data integration service, Combine Date for analysis, Machien rearring

[15] AMI!- amazen machin Image, Preconfigured to Start ECZ

(16) Amoren personalize! Developer use it to Show Prochets recommendation based on automets visity

[17] And Device Form; Developer & use if te test apps pesktop or mobile like end users

[18] Aws out Post! Full mangled Aws Cloud Can be installed on your on-from

+ How Aws caculater-1 one Data tronsferred out of cloud (2) Compute & storage usage, Consumos * to improve Content Deterrion) 1 TI use cloud front (2) 33 to store * servecice always Pree; Don (E) Control tower (5) 3) Dynoma DB (up f. 256) + 2 ways to create RDS ! (1) Congele (3) cland fermation templet # 2 way to analyze costs; [Ostexplorer [] Costlugage report & 2 ways to auto Provisioning Es cloud formation 2) elastic Beanstork * examples of Serverless !-() 59s (E) Glue (3) Amber ET J RONgato + Vertical SGAM (4P 900WN)

= mcreage resemble

& Herozuntul (in/out)

= tran chanse maghinery

1 to Reduce Cost 1. (C) use reserved instance @ APPY ASG + examples of Jerver-based Sorvices:

DRedshift @ RDS bexample of global scop services RIAWS Cloud format (2) Rent 53

b Domain 31

(3) is release

- Aws suffort flams

1 Bousic (Free) & Monted Security Ohecks

[2] Developer, 1. " health check & client side disgoin tool
- Bussines How email support
- untimited Cases from 1 contact

[3] Bussiness, 1-24x7 support email, chat Phone
- unlimited Cases from unlimited Contact

Floor Billing, (15 5) stemdown

El enterprise on - Ramp (enterprise + Bussine)

+ Both is support programatic cases management

> Suffort service !-

Thrusted advisor! give you recommend than of Cost, Perfermente security, faut - based on Jen support Plan, Jon Com user

(2) Proffessino Consluting sorvice

For knowledge Center (Fas)

(4) White Papers (Ans experts)

[5] Blog

B) Aws Abuse team; report any abuse issue to thim ex ppos attack comes from Your ecz instance Domain (Pricing & Billing

-> Eca Pricins

[] on -demand : easy but expensive and Can't be interpted

Elsfot 1 90, Nout front Elresorved: 1-3 Jears: 30060

F) saving plan: on-demand + reserved extra will be charged as an-demand

Note ! linux mollion, Per second but at Least one miniture

-> Billing services

(1) OU; multiple alcounts i'm
one Place, one Bili
-monged by Drus towner
- you can showediscounts to a (cond) &
critical resource

[2] Cest allocation tag 1- group and filliter charges (categorize & track cast)

[5] Billing Dashboard: Costs Revservice - forcast

Fil Cost exploser; More defails Filitor by rolling, sortices - fore Cost Charges

5) simple pricing calculator: for Public to give an estimated cost for service you choose

Budgets: creat alarms & track costs service, region alarms Dillers - forecast spent

(3) Cloud watch billing a larms; in Billing imited, alarm for actual cost, service & Herony (8) Control Policy + Permission on ou

+ In Memory Data base, 2 types [3]
[Amoron memor) DB (Redis), ultra Fast Performance Se used with James
El Elastic Cach! Full managed for Flexusie- real-time use cases.
for Free services
[] Flastic Beansterk: Payon19 for Resource that you will use, so it's Free
[2] RedShift ! Free UP to 25 GB, Based on Postgres or
[3] Control tower + allwells Free
Flor any Compute saving Dlan Question, Think about Servetes
shared Controls: means security showed meds Patch Managmont
servic that auto Scalable
TOURAMODE TO LAMBDA [3] EES
Aws of swarks: for Oref and Purpet
Aws code Artifact) Full-mangled Repo to show and Publish Bulkeyes
Server Access lossing; get security and Access Andit of 53

tinherit from Aws = Aws who responsible about it

& startup Company Should from Bussines Pran