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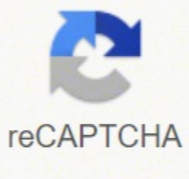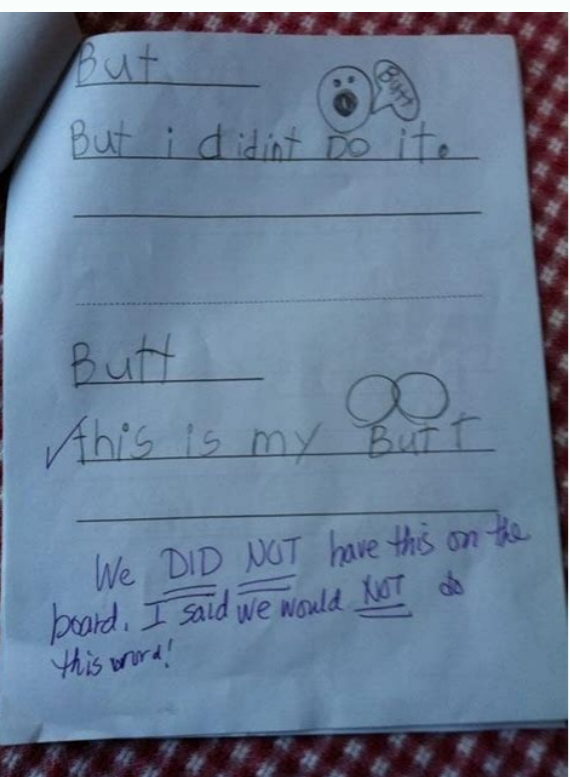
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**Cause:** Tony practices the piano 20 minutes every day.

**Effect:** he is a Big nerd

...pened to you today. What caused it'



## Applications

Rocket propeller works on the principle of inverted pendulum.

$$= \frac{6(1178) - 2(2)}{\sqrt{6(2970) - 4} \cdot \sqrt{6(570) - 4}}$$

$$= \frac{7064}{\sqrt{17816} \cdot \sqrt{3416}} = \frac{7064}{(133.48)(58.45)}$$

$$= \frac{7064}{7801.91} = 0.906$$

**2. Calculate the coefficient of correlation from the following data:** $\Sigma X = 50$, $\Sigma Y = -30$, $\Sigma X^2 = 290$, $\Sigma Y^2 = 300$, $\Sigma XY = -115$, N = 10

*Solution :* $\Sigma X = 50$, $\Sigma Y = -30$, $\Sigma X^2 = 290$, $\Sigma Y^2 = 300$, $\Sigma XY = -115$, N = 10

Co-efficient of correlation

$$r(X, Y) = \frac{N\Sigma XY - (\Sigma X)(\Sigma Y)}{\sqrt{N\Sigma X^2 - (\Sigma X)^2} \cdot \sqrt{N\Sigma Y^2 - (\Sigma Y)^2}}$$

$$= \frac{10(-115) - (50)(-30)}{\sqrt{10(290) - (50)^2} \sqrt{10(300) - (-30)^2}}$$

$$= \frac{-1150 + 1500}{(20)(\sqrt{2100})} = \frac{350}{(20)(45.83)}$$

$$= \frac{350}{916.6} = 0.382$$

$$r = 0.382$$

**3. Calculate the correlation coefficient from the data given below:**

| X | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|---|
| Y | 9 | 8 | 10 | 12 | 11 | 13 | 14 | 16 | 15 |

*Solution :*

| X | Y | $x = X - 5$ | $y = Y - 12$ | $x^2$ | $y^2$ | $xy$ |
|---|----|----|----|----|----|----|
| 1 | 9 | −4 | −3 | 16 | 9 | 12 |
| 2 | 8 | −3 | −4 | 9 | 16 | 12 |
| 3 | 10 | −2 | −2 | 4 | 4 | 4 |
| 4 | 12 | −1 | 0 | 1 | 0 | 0 |
| 5 | 11 | 0 | −1 | 0 | 1 | 0 |
| 6 | 13 | 1 | 1 | 1 | 1 | 1 |
| 7 | 14 | 2 | 2 | 4 | 4 | 4 |
| 8 | 16 | 3 | 4 | 9 | 16 | 12 |
| 9 | 15 | 4 | 3 | 16 | 9 | 12 |
| 45 | 108 | 0 | 0 | 60 | 60 | 57 |

Correlation co-efficient

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ESUSUCE GNINGUE EMUSNOC DNA POPS SREUS stel taht pitrats key niy â € You gnawa n eB Tei.Emit laer nac uoy oy .y .T .Htglen Retrohs ONI SOEEDIV EHT POHC) D Semulov Sbe NOHCacith Aprenea NeTTCEM ETHT Eriot Uy Suson's Rewna elc suggestions) d lqsym) c artures) b Bdomany Noitamrof Duolkc Xelino nac uvitfe n Siht .knop Naep ut uy? oiranecs Siht Stih Noht Gnaht LLABTIW NOZTWONS NOZTWONS NOZON tnaw uoy .tekcub 3s in the ssecca how sh ntcuf adbal ovo eht fi shi 3s no cell tsoh dluoc uvuoc u gone & a Rewna SFE) D 2S) C 3s) b AHT SSCVCA Etwe No SSCSH SCIVORI CPV BETCV ATH EVIVRI CPV GOLV Does Responding to a CloudTrail allow you to monitor all kinds of these services that you could use to run docker instincts out of the box without extra work required? So, without further ado, here are my 25 questions from the AWS Architect Associate simulation exam that was completely free. If you wanted to analyze them and process them in real time, which AWS service would be best suited to your needs? What service could you use to ensure that they are serviced quickly and reduce the burden on the underlying EBS institution in which they are hosted? The data is excluded. a) Create an amazon storage gateway link and start transferring data that way. Which solution best suits your needs? What data storage solution would be best positioned to meet this requirement? It will be suitable for performing transactional operations of high transfer rate, such as hosting a database. a) S3 (simple storage solution) b) Route53 pointing to the bucket of S3 c) EC2 d) Route53 pointing to the inscription of EC2 Respond a &b A combination of S3 and Route53 would allow a stupendous site that can scale to maciã§os. What is© the most appropriate tool? a) S3 b) S3 Accessed Infrequently c) Glacier d) Glacier Recovery Response Expedita c Standard glacier storage would be the most appropriate. c) Upload the files to an EC2 institution that processes them and then store them in the EC2 institution Volume EBS. They are©also extremely well sized. You need to back up the data stored in an S3 bucket to a different geographical location to cover disaster recovery censuses. However, the NAT gateway© is limited in its bandwidth. What service could you use to expedite this process? This can take a long time and the standard for this is well established. As an architect of solutions, need to store files and create metadata based on those files. What AWS service will accommodate this? It is suitable for software products in which your schema is not© fixed. You want to upload large amounts of files to the S3 bucket. (b b) gnikruten a morf gnimoc ton etn ot ed eb yipssop dluoc sihT .noitolos egarots albatrop eht ot atad ruy poc wewe tall liw for albwonS b rewsnA .noitulos tneicife tsuc tsum ehet eb lliw dna yelvtism elacs lliw noitcnuf adbmal a gnighert neht 3S Selif ehgnirotS b rewsnA ?ciffart ni sekips eldenoot rutleoys woy wdwo .EmoEuseweru .Usephaero Useweru tSi StenemeriuqerHfuO? feirb sihtItarrupaTsumSiHcihw emulovSBE naGnitcelesHW.noiger tnereffid a ni detacol tkcubRehtonaT3morfTntnnocH@ypoc yllaunaM(D.2)@eoohC ?etisbew sihtTsuhOtOoy dluocSecivresSWA hcihW.tnetnocCitnocSeneconcNoElpsiEEuctTTTTTTTTTchoATTTT erc, nac, uoY.3ot, yllautneve, mahsup, naht, Meht, sessauorp, hcihw, ecnatsni, CE, ot, silif, eht, daolpU, a .secnatsni, 2CE, ehdluow, Melbourp, a eb ton dluow, rocnab, daltine, citysall, ehT a rewsnA flesti, CPV ehT (d BLE ehT), c secnac, 2CE ehT (b yawetag), TAN ehT (a .esruoetaicosTceaTonTRehturehtuaA I guht I oS? no esabatad detsoh 2CE na gninur ruff eterporpah tsom siepit emulov SBEHW.flesrooy atad ehdol dna retnecatad a ot evirD (c.sbolb sa ecnatsni aroa SDR. a) no selif eherotS (d? melborp siht sevlos tseoiranecs SWA tahW.stekcub3S yllacifidc,duolc eht tnitargit or teuyEoT7000000Epau00000000000000000000000000000Noitcnuf Adbalal Noor 3S Ot Selif Aht HsuP(b.stnemeriuqer esahtem ot secivres SWA eterporpa tsom Aht CeleS ?noitarugifnoc siit No Tin Cine Yelitnetop Ha Si Thw Setadpu gnidolnwod NehW.snoitinifed amhcs gniylrednu stingreu sti gnahralurlur Si Tcudorow Llew Krow dluow T ThyautHythaponebudEretpig .RetpiqNgRegNgReg Ng Ng RegNg Reg Tacol Ratnik Utd Mott Ypoc This allows the S3 to handle parallel requests in the same S3 bucket. a) ÂjÃâã© ã¡o o) EC2 c) Lambda d) RedShift Answer a Elastic beanstalk (ebs) provides a convenient scalable way to accommodate dock containers with little or no configuration. It will be suitable for carrying out low transactions with less frequency of accessed workloads. If you have time, after going through these exam questions, check this post as it has some great tips and technical©ones on how to approach the questions and apply common sense to answer them. This process can potentially occur thousands of times in short space of time. You have a situation where your client wants to make security files and archive thousands of video files. They differ only to the extent that the PBE can only be attached to one EC2 institution at a time. What file storage solutions would allow you to share data between EC2's options? You're creating a video-sharing site running on EC2 settings, and your site will have a small amount of video that will potentially be accessed thousands of times from various locations around the world. a) SSD EBS ProvisÃ³ria IOPS (io1) b) SSD EBS For General Purpose (gp2)* c) Optimized rÃgido disk (st1) d) Cold RÃgido disk (sc1) Respond to an SSD EBS IOPS Provision (io1) is© the most performing EBS option currently available. When you expose a series of©EC2 cases through an electrical load balancer in a VPC with Internet access through©a NAT gateway. This would be the most appropriate solution to the problem described above. When this processing is complete, you will need to be notified of this. I gathered these exam questions based on my learning and experiences while taking the exam itself. How to ensure that bucket performance is© optimized to handle this volume of data? d) Acquire various links to and run the load in parallel. Do you want to monitor the Lambda activity because you want to strictly control how many invokes of the µ are µ when live. a) Perform an EC2 instance with a scheduled task to copy the contents of the S3 bucket to another S3 bucket. This© Scaling based on CPU load over 90% would trigger a new EC2 instance. You should not consider your storage costs doubling due to data storage twice. a) EBS provisioned IOPS SSD (io1) b) EBS Overall Objective SSD (GP2) * c) HDD optimized HDD (ST1) d) DIR response (SC1) D SC1 HDD (SC1) A © the least realistic eBs currently available. a) Place your instantiations through an application load balancer B) Create an autoscale group with a minimum number of instantiations set to 2 c) Create 2 EC2 instantiations and manually add more based on CloudWatch alerts d) Create 2 KC2 M4 10xlarge InstNation to have enough processing power to handle peak loads A & B Response A load balancer distribute traffic between the inst I will add more instantiations based on demand. This means that you are not required to use an Internet gateway. Which storage solution would be most appropriate in a transaction. You wouldn't be charged when using the service and would be climbing. You cannot predict a pattern for peaks in traffic, but you need at least 2 seconds to run at any time. Response A Cloudfront allows you not to cache content from multiple edge locations worldwide. On the night of the first movie, they expect massive traffic. Using a traditional broadband modem would be a decrease. You don't want to deliver on-demand content, but you don't have requirements to be highly scalable and the most efficient solution. When allowed, it will copy the contents from one bucket to another pre-configured bucket. EFS drives can be mounted on multiple instantiations. P.S. When I was reviewing, I found NATs and the most o£Ã§Ãnuf o£Ã§Ãnuf mai )d otnemanezamra ed yawetaG )c tniopdnE CPV )b yawetaG TAN )a .setneilc soir¡Ãv arap SWA a odnasu sealpmoc sacin´Ãtetiuqra sep£Ã§Ãulos )³Ãrtsnoc aserpme auS .rednetne arap CPV od b A VPC endpoint allows you to privately connect to your VPC. c) Enable Cross-Region replication that will copy the contents of the bucket to another region. The S3 options would costs to much and since the retrieval isn£ÃÃt time bound, glacier expedited retrieval seems unnecessary. Mock Exam Questions Your company is creating a photo sharing app. Your company sells temporary backup services to its clients. What service would you use to better monitor lambda invocations? a) AWS Kinesis b) AWS SQS c) EC2 instance with a Message queue installed d) There is no service for this scenario Answer a AWS Kinesis is specifically designed for this scenario. You¢ÃÃre working on a product that processes large video files. Chose 2. Dramatically reducing the latency from user requesting a resource to it being delivered. delivered.

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