cloud computing. Endsem exam

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function (input): if (input = manel) print (10x(10-1)), if (Proput = namez) print ("welcome"); odurn input; print (" error");

cloudend serri 18B(5006.

2) In Amazon API gale way is a collection of resources and methods.

-) we can create one occource and define one method on it

-) The method is backed by a lambda function that is when we call the API function through an HILPS endpoint, SPI gateway privokes the lambda function

-) The post method on the PyramoPBManager r Clource supports the following operations.

-) create, update and petete an item

> read and them

-) Scan an ilem

-3 echo, ping other operations was for testing.

The request paylooal we sent in the pod request identified the OynamorBoperation and provided increasing data

-> pass through the entire requesti-

-) & lambda function can occeive the enlire HHP regust and set the tilfp ourpoise wing the wws-prony integration type

-> catch-all method:

Map and methods of an API to a single lambor function with a single mapping using nay cate and method.

-> Catch - all resource;

map all sub paths of a resource to a lamba function without any additional configuration the new path parameters (& prosyt):

Amoron cloud watch service allows users to create logs Which will display metrics as per user monitoring needs.

9t also creates simple notification service (SNS) and take actions based on the thresholds. Nolifications for the Same can be triggered which can send emails to the user mailbox.

10 follow DNS restriction in s3 bucket. -> As DAS helps to connect bucket and website, we need

to be careful and follow the restrictions.

-> 9f we are hosting a static website we need to configur pns as we need to link the data file present in 53 bucket to our domain.

-) If we don't follow we cannot perfectly give acress and integrate s3 to our domain which leads to or I wind also it must not accessed by anyone so access wi

be only for DNS linked domain.

supen we are hosting a static website we need t follow DNS restrictions as it is and point for but or alse wiresults in gelting errors While integrating 33 bucket to our-website.

7

5) Various ways to access Aws cloud:

-)-a) Aws console:-
 - -> This is the most convenient way to manage Aws resources. You can log in using the usernome and password.
 - -) Copy the user loginupl from the root account-
 - -) From the security credentials tap, copy the console. sign-in-link.
 - -> logo ut formyour root account and log back in with
 - -) Since the wer has only read-only access-to the IAXII you can't add a new wer
- b) Aws Command line Interface;
 - The AWS CLI is a centralised tout for managing your omazon web services accounts.
 - -) You can control multiple Dws services from the Command line and automale turn using scripts with just one tool to download and configure.
 - -) We will configure the Aws cli if or the wer we needed
 - -) You'll need accept to the keys you downloaded while creating:
 - -) You can use any service you have accepte once you have configured it

- 1 BBC3006 1) Aws SDK!-
- -) Aws provides tools for creating and managing applications.
- -) DWS SPK allows you to programically manage service on Aws.
- -) AWS provide splc for several programming languages.
- 6) ppos protection techniques!
 - ->a) Reduce Attack Surface Area;
 - -) one of the first techniques to miligale prosattack is to minimize the surface area that can be
 - attacked.
 - -> We want to ensure that we do not expose our application
 - ->. In some cast, you can use firewalls, or ACLS to control what traffic reaches your applications.
 - b) plan for scale:
 - o Two key considerations for mitigating large scale Volumetric
 - >i) Transit Capacity
 -) (i) Server copacity.

Nnow what is normal and abnormal topics!

-) More advanced protection techniques can go one Step further and only accept traffic that is legitimen. -> To do this, you need to understand the characteristics of good traffic that the barget usually received

Anjury Lorest.

7) Instance stop!

Instance terminale;

The ECR slopped state indicates that an instance is shut down and cannot be used.

- > 91's essentially a temporary shutdown for when you're not wing an instance but will need it again later.
- -) There will be no deletion of the attached bootable EBS volume.
- Senerally we stop and restart the instance to resolve unexpected status check fails or incorrectly running opplications.
 - -> Termination means a complete removal.
- -) Terminated instancy cannot be recovered.
- with all the work in the instance
- -> You are not billed for terminated GCQ instances
- The data and RAM is exasted when terminated.

- -> Steps required to recover the Ecz instance key;
- -) Obtain the original instance's configuration information
- > Turnoff the original ECQ instance to which you want to access
- -> Create a new instance and a new key pour
- -) Hares the new recovery instance through sch.

 -> Remove the original instances primary EBS volume
-) Connect the previously disconnected volume to the new instance
- -> Copy the recovery instances authorized legs to the larget volume.
- -) Unmount the target volume from the recovery instance and reconnect to the original instance using the previously mentioned configs.
 - -> Rustart the original instance with the new key pair.
- -> Remove the temporary Instance from the system.
- -) haunch a new recovery Instance by following fedures
- I Add a newa log for the new instance called.
 - -) Select a security group and dick Periewondlaunch

- -) Select Generate new Key-pair on the popul, enter a name for it and download
- -> Launch the instance.
 -> Connect to the newly created instance using termind
 - and newly generated key-pair.

 > return to the management and stop the original
 - Detach the volume of the target instance we will like to gain accept to and attaches it to the newly created recovery instance.
 - Create a temporary directory and mount the volume.

 Copy the authorized key file from our new instance to
 - the mounted instance.

instance

- -> NOW unmount the blocked device.
 - -) Next, we need to detach the volume from the instance using the ecz console and reattach It back to the original instance.
- -) Attach the volume back to its original instance.
- Set device root path back to the same on notreorlin

Try to connect instance using terminal and it should be accessible.