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Mid-sem- Examination.
CS360- Cloud Computing.

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when an ECR instance is stopped using the stop-instances Command the following is registered at the Os level:

- * The APS requests sends a button press event to the quest.
- * vosioux Syxtem Service are stopped as a result of the button press event. Gracefull shutdown 1s triggered by the ACPS shutdown button Press event from the hypervisor.
- * ACPI shutdown ix inflated.
- * The instance shuts down when the graceful shutdown process exits.
- * If the instance of does not shut down clearly within a few minutes, a hard shutdown is performed.

when we stop the fc2 instance will be shutdown and the virtual machine that was provisioned toil you will be permenaltly taken away and you will no longer be charged to instance usage when you start a stopped instance the ERS wolume PA Simply attached to the newly provisioned instance.

once you stop an Ecz instance, the instance is shuddown and the vm that was provisioned to you will be taken away indifinitely. You will not be charged to instance usage once.

this has happened.

In the Below steps are required to covered in this post to recover access to your eco instance after losing your credentials.

- -) Gather Configure details of the original targent instance.
- to regain access.
- -) launch new (recovery) instance and generate new key-pair.
- -> login via ssh to the new recovery instance.
- I Detach the primary EBS volume from original instance
- -> Attach/mount the previously detached volume to the new instance.
- I copy authorized keys from recovery instances to the mounted volume.
- tour to original instance using Configs noted earlier.
- > start the original instance and login with new pair
- -> Delete temporary (recovery) instance.
- once logged in Successfully, return to the EC2 management.

 Console, Select the original instance your ill like to replace

 the lost instance key and Select "Stop"
- Instance again, and the instance proporties pane, Click on the root device and then click on the volume id.

4th.

Static website hosting on Amazon S3 is one of the very Popular we cases of Amazom S3. It allows you to nost. an entire static website and on a very low cost. Amazon S3 is a highly available & scalable hosting solution.

Amazon 53 ix designed to deliver 99.9%.

durability and Scale for Hillians of objects world wide. It.

Its very early to nost a static website on Amazon 53 with

very minimal steps.

Attracon has orthog service to store dynamic websides on the you maky like to start with "Amuson FC2 - Elastic Compute Cloud" for instance.

> Static websites only contain static resources like.

HTML, images, Javascript, CSS and fonts, etc,... Static web

hoxting doesnot Contain Server-side processing or scripting.

In Construst, a dynamic website relies on server side

Processing, including Server-Side Scripts such as JSP, Ptip in

ASP. NET etc...

A Static webzite deliveriez Exady the Same Content on each request because pase are stored in file storage. with no dynamic manipulation on content at runtime. which makes the Static webzite much faxted in.

Compasison to the dynamic webzites, most of the static webzite hosting platform allows to cache data large extent.

tosting static websit on Amazon S3.

- * create bucket.
- * Enable website hosting.
- * Index documents & Joides.
- * , Configuring Errors
- * website Acess points \$100.
- * Traffic wging.

Opox (Distributed denail of service) attacks are sometimes used by maricious tiess in an attempt to flood. a network,

System as application with more traffic connections as requests.

that can handle this DOOD attack could be coaxifficated as the federal coiminal offense under computer fraud and thouse act. This attack is very bod because of no. of machines as network that receive and respond to these. Packets ix very large, unchinis computer will be flooded with traffic. This overloads victim computer will be founded with traffic. This overloads victim computer and can even makes it unusable during such attack

FECB [Flax+ic 10ad Balancing] helps to achtere greater.

fault to learnce by automatically routing inbound traffic across multiple Amaron ecr instances It also, allows to reduce your attact outo by receiving.

requests on Behalf on your statule to automatically.

Scaling to hardle ity.

6.

your lambda function by using Amazon API gateway, API gateway

Provides tools for creating and documenting web API's that route.

HTTP requests to lambda functions, you can secure access to.

Your API with authorication controls, your API's can serve traffic over the internet or. Can be accessible only.

- I open the function page on the lambda console
- -) choose a function.
- I under functional overliew, choose and trigger.
- I school API gateway.
- -> TOR API Choose Create an API
- + for security, choose open.
- I choose add.

API gateways on comprised of stages, sources, methods and integration.

choosing an API type:

#HTTP API) A lightweight, low-tenancy Restruct API.

* REST API > A Cuxtomizable, feature rich Restrict API.

* Web Socket API -> A Web API that mountains persistent

Connections with clients the full - dupler communication.

5th. Aws (Resource Aceks manager(RAM) is a Service that enables 4,000 to esapar easily and security share news resources with any.

Aws account or within your Aws organization, you an share.

Aws Transit gateways, sobness, Aws license management

Configurations, and Amazon Route \$3 resolve of fully resources

many organizations use multiple accounts to create administrative or billing isolation, and to limit the impact of errors, pam eliminous the need to create duplicate resources in multiple accounts, redoing the operational avaluad of managing those resources in every single account account you own. You can create resources in every single account you own. You can create resources centrally in a multiple account account equironment and use RAM to share thos resources across in the three simple steps: create a persource share, specify tessures and specify accounts RAM is.

Benefits:

with RAM.

Reduce operational overheadiThese eliminates the need to provision duplicate resources in every amount in multi-account environment.

* amprove Security and vist bility.

* optimize costs.

sharing recourses such as Aus afterse manager configurations octors accounts allows you to leverage license in multiple poaks of your company to increase utilization and optimize costsy

· a

Amazon cloud watch service allows users, to create logke which will display metrics as per user montering needs.

6. It also creates SNS (simple motificant source).

the thresholds notifications for the same can be original

which can send anoth to the used mailbox.

a. cloved watch, logs.

* 6. sns.