Cloud Computing - C5360

End Semester Examination

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DNS is a collection of rules and records which helps the client understand how to reach the server through URL'S.

Hosting a static website

- 1. Create an S3 bucket with a name that is same as your domain name
- 2. Create another S3 bucket with subdomain
- 8. Configure 83 main domain bucket to redirect to
- 4. Upload website contents to www subdomain budget
- 5. Configure www backet for website hosting
- 6. Add a Bucket policy to make bucket contents public
- 7. Create AWS soute 53 hosted gone with the same name as the domain name
- 8. Update Domain provider (Hostinger, Crodadly Freenamete)
 Name server with AWS provided Name some
- 9. In Aws Power 53 create a recorded for main do main and select to point it to S3 main bucket
 - 10. In AWS foutes3 create sucostdet for www Subdomain, and point to S3 www bucket
 - 11. Access website wing domain name.

- Sio Hosting a static website requires a bucket to follow DNS Restrictions. AWS 83 buckets follow DNS rules so that we can use same website endpoints..
 - bucket name "nikhilthings" in region AP-80uth-1 & eurwest-3.

 (Pacific)
 - i) URI'S to request a file index. Intend in bucket nttps: 11 1 nikhilthings. 83 - website - ap - south-1. amazonaws.com nttps:// nichilthings. s3 - website _ eu-west -3. amazonaws.com/
- 6. Am DDOS (Distributed denail of service) attacks are sometimes used by malicious theirs in an attempt to flood a network, system, or application with more traffic, connections, or sequests that it can handle This ppos attack could be clamified as a federal orininal offense under computer Fraud and Abuse Act This attack is very bad because if no. of machines an network that reciere and respond to these paeters is very large, victims computer will be flooded with traffic. This overloads victim computer and can even make it unusable during such attack.
 - -> Slastic load Balancing (FLB) helps to achieve greater fault tolerance by automatically souting inbound traffic acadors multiple Amazon Ec2 instances. it also allows to reduce your attack surface by acciering sequests on Behalf of your web application and automatically scaling to houndle Capacity demands

- a) we can ig use Aws, chiefed, a DDOS protection service that Aws provides automatically to all automes at no additional charge.
- -) equiping our network, applications with multi-level protection statesgies. This may include prevention manargement systems that combine firewalls I VPM, anti - spam, content filtering and other security layers to monitor activities and identify traffic inconsistencies that may be symptoms of boos attacks
- we can run Abb. Java code in Aws Lambda. Lambda provides suntimes for Java that were code to process.
 - -> To create execution 2012 field (JAM Role) loumbda-vole
 - -> TO open lambda console and create a function eg: my-func nuntine. Java 11, Role. Choose an existing tole (land a-role
 - desderfasotion, choose create function. To configure fest event, choose Test. (let event rame be test) to invoke func Choose Test
 - -) Cleate API wing AWS API gateway. , create resource and create post method or resource
 - of set lamida function as destination for the post method This is the method AWS API Gateway invokes when you make an HTTP sequent to post method endpoint.

- -) Deploy he API
 - invoke permission to API
- Trigger function with an HTTP request.

And Various modes of accessing the Aws cloud are:

- Aws (LI (Command line interfece)
 - AWS console
 - AWS SDK

AWS CLI

AWS command line interface (ELI) is unified tool to manage your AWS services with just one tool to download and configure , you can control multiple Aws sources from commound line and automate them through Scripts. we need to install AWS CU on Laptop. Using commande we can configure the Aws resources

AWS SPK (software development kit)

Aws has a tool for developing and managing applications on AWS. AWS supports these programming languages at time of writing C++, Cro, Java, Moderis etc. AWS SDK for browser based development allows developers to access AWS from JavaSmipt code sunning directly on browser.

AWS SDK simplifies use of Aws services by providing, set of libraries that are consistent and familial for Java developers it provides support for API.

Rifecycle consideration.

Aws conside

This is eariest way to navage resources in Aws.

Aws management console is web application that comprises
and refers to a broad collection of services consoles for
managing Aws.

one when you terminate an ECZ instance, the instance that was will be shutdown and virtual marchine that was provisioned will be permanently taken away and you will no longer be charged for instance usage. In data on stored on that instance will be lost. In data on stored on that instance will be lost. And if ECZ instance is stopped that state indicates that an instance is shut olan and cannot be used. Basically it is a temporary shuldown for when you are not using an invance, but you will need it later.

g. And when you case E(2 confing on E(2 launch to reset a lost password, you must use its key paid to retrieve the admirtrator password. if your lost the key paid, you can create an AMI of existing instance, and then bounch a new instance. You can then select a new key pala by following the instance launch wizard.

And even, Aws systems Manager Aws support.

Reset Access Automation documentation. can be used.

also, Aws SSM agent can be used. and using it we can enable and logging and recover.

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Scanned with CamScanner

- Amazon Cloudwatch service allows used to create logs (cloudwatch logs) which will display metrics as per used monitoring needs.
 - b) it also creates Marms and takes arching based on the thresholds. Motification for Same can be triggered which can rend emails to the user mailbox.