cloud computing

Assignment 3-1

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* Define :-

1) EC2 :- Amzone Elastic Computer (Amzone EC2) is web services that Provides secure, resizable compute capicity in the cloud.

It is designed to make web-scale cloud computing easier for developers. Amzone EC2 single web service Introduce allows you to configure capacity with minimal function.

2) Elastic Beam stack :- Aws Elastic Beanstack is an easy to use service for deploying and scaling web application and source developed with Java, .Net, Php, nodejs, Python, Ruby, Go and docker on familiar servers such as Apache, nginx, Pasanger and IIS.

3) IAM :- Aws identify and Access management enables you to manage Access to Aws Services and resource Security using IAM. You can Create and manage use Aws sensore users are groups and use Permissio to allow and deny thier Access to Aws resources.

4) ELB :- Elastic load Balancing automatically distributed incomly application traffic Access multiple targets.
such as Amzone Ec2 Instance, containes, IP address, lambda function and virtual an layer.

5) ES3 :- Amzone simple Storage service is an object storage service that offers industry identying Scalability, data avalability, security and performance.
Customer of all size and Industried can use it to storede and protected any amount of data.

6) EBS :- Amzone elastic Block store (EBS) is an east to use high performance, bloak storede service designed for use with Amzone Elastic Compute cloude (EC2) for both throughput and transaction intensive workloads at any Scale.
Ex :- Big data analytics engins deployed on Amcore EBS.

7) Fsx for Luster :- Amzone fsx for luster is a fully nunuged services that provides cost effectives, with performans, Scalable storede for compute work loads.

It Provide multiple deployment options storage types to optimise cost performance for your workloads requirement.

8) Glacier :- Amazone S3 Glacier is a secure durable and extremly low cost Amazone S3 storage Close for data archivint and long term backup with S3 Glacier customers can storage their data cost effectively for months, years or even decades.

9) Sage makers :- Amazone sagemakers is fully managed machine learing services. with sage makers data scientists and developres can quetly and easily build and train machine learing modules and then directly deploy them in to Product's ready hosted environmented.

10) Rekognition :- Amzone Rekognition makes it easily to add image and video analysis to your Application. using proven ; highly ; scalable deep learing technology that required no ML expertise to use with amzone Rekognition.

You can identify objects, people Secured, Activities in Image & videos.

11) SNS) Amazone simple emails services is a cost effective flexible and scrable email services that enables developers to send mail form within any Application.

12) SES) Amazone simple email services is a cost effective flexible and scaleable email services that enables developed to send mail form within any Application

with SES you can send email securith, flexable any at scale.

13) lambda) Any lambda is serverless Compute services that you can code without provisioning or managing services creating workload aware at stor scalable logic writing event integratory with lambda

14) Rds) Amazone relations database services makes it easy to setup, operate and scale a relational database in the cloud.

It provides cost-efficient and resizeable capa with automatically time consuming administration tasks such as hardware provisions database setup, patching and backups.

15. Cloud 9 :- Any clude is a clude based integrated development environment IDE that lets you write run & debug your code with just browser. It include a code editore, debugger terminal.
Cloud 9 comes prepakeged with essential tools for popular Programing language include JS, Python, Php etc.

16. Cognito :- Amazone Cognito lets you add user sign in and access control to your web website App quickly and easily.

17. VPC :- Amazone virtual Private cloud is a service that lets you lunch AWS resources into logically isolated virtual network.

18. Route 53 :- Amazon Route is a highly available and Scalable Cloud domain name System and services. It is designed to give development and business an extremely reliable and cost effective way to route end users to Internet App by translation names like Www Example.

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Assignment 2

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Q#1 Create EC2 Instance.

⇒ Step 1 :- sign in to Aws management Console and open the Amzone Ec2 Console.

Step 2 :- choose Ec2 dashboard and then choose lunch instance.

Step 3 :- Choose me Amzone linux 2 Amd.

Step 4 :- choose the t2 micro types and then chose next Confighites Instance details

Step 5 :- on the cofigure Instance details page shown following set these value and hose the other values as theris details.

Network :- choose the vpc with both public and private subnets that you create for the PB instance, such as the vpc. Identify the tutorial VPC.

subnet :- choose an existing public subnet Auto assign public ip.

Step 6 :- choose next Add Storage.

Step 7 :- on Add the storage page, keep the default value and choose next - add type.

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Step 8 :- on the Add tage Page, chose Add key then enton name. for key cond ont or tutions., web service for value.

Step 9 :- Choose next Configure Security Group.

Step 10 :- on the Configure security Group Page. Choose select on existing Security Group then chance on existing security Group Such on the tutorial Security. Groups.

Step 11 :- Choose Review & lonch.

Step 12 :- on the Review Instance lonche Page verify your setting and then Chunge louren.

Step 13 :- on the Select on exiting key Pair or Create on new key Pair Page a new key Pair and ester key Pair to funetion key Pair.

Step 14 :- Choose Download key Pair and then save the key Pair file on you local maine you use this key Pair to comment to your EC Instance.

Step 15 :- Count new Instance to find instance.

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Q.2 Connect to windows Instance.

=> Step 1 :- open the Amzone EC2 console.

Step 2 :- In the navigate Pane, select Instance. select the instance and they chose come.

Step 3 :- In the Comment to instance Page, choose RDP client and then change Get Password.

Step 4 :- Choose Browser and navigator to the Private Key file you Generate when ~~Get~~ you locate the instance. Select the file and change often to copy the entire content of the file to this Page.

Step 5 : Choose decrypt password the console display the default admin password for the instance. in password replacing the get password link Sure password cut sure need to the connet the Internet.

Step 6 :- Choose download remote desktop file your browser prompts you to either open or save return to the Instance Page.

Step 7 :- navigate to your download direction and open the RDP shortcut file.

Step 8 :- You might get warning that the Publish of the remote connection is unknown

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Step 8 :- The administrator Account is chosen by default Copy vs Paste the passed - that you saved previous.

Step 10 :- Due to the name of self signed conflict you might get warning that the security certificate could not be automatically.

Q13 Connect to linux Instance.

=> In terminal window use the save command to connect to the instance, you specify the path and filename of the private key (.pem) the username for your instance, and the Public DNS name or IPv6 address for your Instance.

To Connect your Instance, use one by the following Compared, To Connect using your distance, Public DNS name, enter the following command,

Ssh -i | pwuing - keys - pair my Initome user name my Instance - Public - dns - name.

Step 2 :- verify that the finger print in the security alert matches the fingerprint that you previously obtained in. (optional) If Instance fingerprint it doesn't match someone might be attempting a run to the middate attack. it contribute to the next step.

Step 3 :- Enter yes.

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Step 4 :- Choose Send a test Email.

Step 5. :- In the send test email dialog box for for format choose Raw.

Step 6 :- for the to address type an address turn for Amzone SES. mailbox simulator.

Step 7 :- Copy and Past the following message in its.

Step 8 :- Choose send test email.

Step 9 :- Report this Procedure afterwards so you generate multiple email sending events for a fees of the emails.

Q) Create S3 Bucket.

Step 1 :- Start in to Amzone Aws.

Step 2 :- under storage & Content delivery chosen S3 to open the Amzone S3 Console.

Step 3 :- from the Amzone S3 console, dashboard choose from bucket.

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Step 4 :- In create a bucket types a bucket name in Bucket name, the Bucket name you choose must be Globally unique. across all existing bucket menu in Amzone S3.

Step 5 :- In Region, Choose origine.

Step 6 :- Choose Create.

Q) Send an email using Sny. (SES)

Step 1 :- Sign in to the Aim management Console and open the Amzone SES Console.

Step 2 :- In me navigation Pone of the Amzone SES Console under Identity management, console email address.

Step 3 :- In the list of Identifies Select checkbox of an Identity email address you have successfully verified Amzone SES.