Subject - Cloud Computing

Assignment : 1

1] EC2 :- Amazon Elastic Compute Claud (Amazon EC2)
is a web service that provides secure,
resizable compute capacity in the cloud.

It is designed to make web-scale cloud computing
easier for developers. Amazon EC2 single web
service Introduce allow you to configure capacity
with minimul function.

2. Elastic Beam Stalk :- Aws Elastic Beam Stalk is an
easy-to-use service for deploying and Scaling
web applications and Source devloper with java,
.Net, PHP, Node.js, Python, Ruby, Go and docker
on familiar servers such as Apache, Ngiox,
Passanger and IIs.

3. JAm :- Aws identify and Acces managoment (JAm)
enable you to manage Acces to Aws Service
and resources security using JAm.
You can create and manage use Aws Service
users are grups and use permission to allow
and deny thier Acces to Aws resources.

4. ELB :- Elastic land Baloneing Automaticaly distribued
incoming application traffic Acces multiple
targets.
Such as Amazon Ec2, Instances, containers
IP addres, lambda functions and virtual an layer

5) ES3 & Amazon Simple Storage Service (Amazon S3) is an object Storage service that offers industry leading Scalability, better availability, Security and Performance.

customer of all Size and Industries can use it to Storage and Protected any amount of data.

6 EBS & Amazon Elastic Block Store (EBS) is an easy to use high Performance, block Storage Service designed for use with Amazon Elastic compute cloud (EC2) for both throughput and transaction intensive workloads. at any Scale.

ex Big data analytic anging deployed an Amazon EBS.

7) Fsx for Luster & Amazon Fsx for luster is a Fully managed Service that Provider cost effective, high Performance, scalable Storage for compute workloads.

It Provide multiple deployment options Storage types to optimise cost & Performance for your workload requirement.

8) Glacier & Amazon S3 Glacier is a Secure, durable and extremly low cost Amazon S3 Storage close for data archiving and long term backup with S3 Glacier, customers can Storage their data cost effectivay for months, years or when decades.

9) Sage maker & Amazon Sagemaker is fully managed machine learning service with sage maker, data scientists and developers can quickly and easily built and train machine learning models and then directly deploy them in to Production ready hosted environments.

10) Rekognition & Amazon Rekognition makes it easy to add image and video analysis to your Application using Proven, highly, scalable, deep learning technology that requires no ML expertise to use with amazon Rekognition.
    You can identify objects, people, scenes, Activities in Image & Videos.

11) SNS) Amazon simple notification Service (SNS) is a fully managed messaging Service For both Application - to - Application (A2A) and Application - to - Person (A2P) communications.

12 SES) Amazon Simple email service is a cost effective flexible and scalable email Service that enables developers to send mail from within any Application.

    With ses You can send email securely, globally and at Scale

13. Lambda & Aws lambda is a serverless compute service that You can code without provisionary or managing Server, creating workload-aware cluster scaling logic

maintaining event integrutiony with lambda

14. RDS & Amazon Relational Database Service (RDS) make it easy to setup, operate and scale a relational database in the cloud.

It provide cost-efficient and resizable capacity with automating time consuming administration tasks such as hardware provisiony database setup, Fetching and backups.

15. cloud9 & Any Cloud9 is a cloud based integrated development environment IDE that lets you write, run & debug you code with just browser

It include a code editor, debugger terminal.

Cloud9 comes prepackaged with essential tools for popular programming languge including JS, python php etc...

16. Cognite & Amazon cognite lets you add user signup, sign in and access control to your web & mobile App quickly and easity.

17. VPC & Amazon virtual private cloud is a service that lets you lunch Aws resources into logicaly isolated virtul network.

18. Route 53 & Amazon Route 53 is a highly avfelbie and Scalable cloud domain name system and service. It is designe to give development and business an extremly reliable and 30 cost effective way to route and users to internet App by translating names like Gww example

Assignment -4

* Define

(1) Compute Engine :-
  - Secure and customizable compute service, that lets go create and run virtual machine, on google's infrastructure.

(2) App engine :-
  - Build highly scalable Applications on a fully manage serverless platform.

(3) Cloud function :-
  - Scalable pay-as-you-go function as a machine service to run your code with 200 server management.

(4) Google kubernetes Engine
  - A simple way to Automatically deploy, scale and manage kubernetes.

(5) Cloud Run
  - develop and deploy highly scalable containerized Application on a fully managed serverless platform

(6) Container Registry
  - store, manage and secure your docker container Image

7) Virtual private cloud &
- Global virtual network that spans all regions single VPC for an entire organization isolated within project increse IP space with no downtime.

(8) Cloud load balancing &
- High performance, scalable, load balancing on google cloud platform.

(9) Cloud Hybrid connectivity
- connect your infrastructure to google cloud on your team from any ware.

(10) Google cloud domain cloud DNS
- Reliase resilient, low-latency, DNS serving from google's, world wide network with everyting you need to register, manage and serve your domain.

(11) Cloud CDN
- Fast, reliable web and video content delivery with geal scale and reach.

(12) google cloud Armor :-
- Help protect your application and website against denial of service and web Affect.

(13) cloud Storage
- Cloud storage for companies of all sizes. Store any amouns of data, Retrive it all as alter as good's like

(14) Persistent Disk
- Reliable high performance block storage for virtual machine instances.

(15) Cloud Storage and data archiving
-) Highly available affordable solution for backup archiving and disaster resource

(16) File Store :-
- High performance, fully managed file storage

(17) memory Store &
- Reduce latency with Scalable secure and highly available in memory service for Redis and me matched

(18) Cloud SQL
- Fully managed relation database service for mysql, PostgreSQL, and SQL Server

(19) Cloud spanner
- Fully manage, relation database with unlimited Slack, string consistency and upto .99.99% Availbity

(20) Cloud big table
- A fully manage Scalable NoSQL database service for large analytical and operational work load with up to 99.99 availbity

(21) Big Query
- Serveless, highly scalable and cost effective multicloud data wareHouse designed business agflity

(22) pub/sub
- Ingest events for streamming into Big Query data locker or operational database.

(23) Datuproc
- Datu proc is a fully manged and highly scallable service for running Apache, Spark, Apache link presto and Bo to open source tools and infoworms.

(24) Data Flow
- unified stream and data duta duta processing that's sorverless, fast and cost-effective

(25) cloud composer
- A fully managed workflow orchestration service build on Apache AirFlow

(26) cloud deplyoment maneg
- google Cloud deveropment manager is an Infrastructure deplyoment Sonfic that automakes the creation and manegement ot gogie Cloud resource

(27) cost management t
- Tools for monitoring, controlling and optimizing your costs.

(28) cost monitoring &
- gain visibility into the performance availibity and health of your application or infrustructure.

(29) Cloud logging
- full managed, realtime, log management with storage, secure analysis and altering at extrabyte scale

(30) Cloud Audit logs.
- gain visible into who did what, when and where for all users on google cloud Platform.

(31) Cloud & debugger
- Investing your code's behaviour in Production

(32) Cloud trance
- Find performence sote neck in production

(33) Cloud identity and Access management
- Fine grained Access control and visibity for certainly managing cloud resource.

(34) Secrete manage
- Store API key Password, certificate and other kind sensitive data.

(35) Cloud key
- manage encryption key on google cloud

(36) Cloud Asset inventory
  — A metadata inventory service that Allows you to view, monitor and analyse all your GCP and Antcus' Asset across Proseot and security

(37) Web Service - Security
  — Security command Center google Cloud centrlized vlumerabity and threat reporting Service.

(38) Event Thread Detection
  — Security and risk manegement Pluttform For geogue Cloud.

(39) manage service for microsoft Active direction.
  — managed service For microsoft Direoten aF high avabilty herac. microsoft Active - Directory Domain hosted by googie Cloud

(40) speech to text
  — Accuratie Convert, speech into text using em & API Powered by googie's AI teomologies

(59 Cloud vision
  — Derive insight Foum your image in the cloud or at the edge with AutoML vision or use pretru vision API modled to deteet monitoring undortand text and more

(51) Cloud natoral lanuguge AI
  — Derive insigdts From unstruere text using googie ML

(52) Cloud Translation
- make your context and apps multilingual with fast, dynamic machine translation.

(53) Dialogflow
- life like, conversational AI with state of the art virtual agents.

(54) Video AI
- Enable powerful content discovery and engaging video experience.

(55) Auto ML
- Train high quality custom machine learning model with minimal effort and ML Expertise.

(56) AI Platform :-
- Build, deploy and scale ML models faster with pre trained and custome tooling within a unified AI platform.

(57) Cloud IoT
- on click insight from your global device network with an intelligent IoT platfor whose scalable fully managed integration lets you connect store and analysis data at the edge and in the cloud.