https://www.youtube.com/watch?v=ye7hgGZwSsY&list=PLJIqXVV4K5LXEGBDPy1mxigzNVMAzkOHv

AWS introducation :

AWS certified solution architect:

it is strated 2006,certification is started 2013

day2:

----------

SAAC03

New exam :Feb2018 65 quetions-->130mins exam free --USD 150

Old one : Orinial has been lanuch 4 years ago

----New exam-----

dsign resilient arch--34%

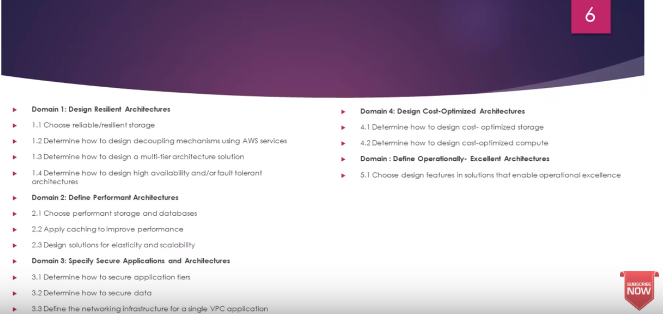
performance arch 24%

secure application and arch 26%

design cost optimized arch 10%

define operationally excellent arch 6%

--------------------------



<https://aws.amazon.com/certification/certified-solutions-architect-associate/>

***Day3:***

***Official launch 200***



AWS global infrasture:

It is palce or platform AWS service run on

Region:Phsical location in world where aws resource exists they have mulitiple avaliability zones

Availability zone:consisit of one or more discrete dat centers/aws facility area,each with redundant powere,networking and connectivity housed in separated facilities

Edge location:CDN(Content delivery network) end point for cloud front place where data is cahed 50+ edge location and growing

Networking and content delivery:

VPC:virtual private clud is isolated clud resource within aws .think of them as issolated data centerts

Direct connect:deciated network connection to aws way of connection to aws without the need of internet.helps the data trsport from and to the aws infra and securelin

Route53:aws DNS service.(53) port number

CouldFront :edge location where the data is cached

AWS Compute:

EC2:

EC2Continer Service:

Elastic Beanstalk: for deloper just upload the code and amzon does the valiation and provision resources ofr that

Lambada:server less architure

Lightsall:manage virtual private servers

AWS sotrage:

S3:simeple storage service object based storage implemnet topc

Elastic file systme:fully managed file system fo EC2 instance block leavel storage think of if as NAS in could for many EC2(Shared)

Glacier:file archive or databackup purpose takes from 2-4 houres

Storatge gateway:Hybride storage integaration is a service connecting an on premisses software applicatnce

AWS Databse:

RDS:Relation DB service

DynamoDB: Managed Nosql DBin AWS.Non RDS

ElasticCache:In-memory cache to help the DB to imporove DB performace

RedShift:fast ,simple coast effective data warehousing olution from AWS

Take mirror of DB and put in Redshift

AWSAnaltics:

Athena:quesy data in S3 using SQL new offering

EMR:Elastic Map reduce it for managed Hadoop foramework handle Big data

Data Pipelingl

CoudSerach:

Elastic search Service:Run and scale ELK cluster

Kinesis :work with real time streming data

Machine learning:Build smart application quickly and easity for developer

Quicsight :fast and easy to use business naalytics tool;

AWS Migration:

DMS:Data base migration service easier and managed DB migration service

ServerMigration:Migrate on premises server to AWS

Snowball:Large scale data transfer

AWS security& Identiy:

IAM: user access and encryption key change the password polity

Inspector :analze application security Inspcet the EC2 instance by installing agent🡪not a part of the

WAF & Shiled:Web application firewall service filter the malicious web traffic

Compliance reports:AWS comliance report on demand

Diretory Service:host and manage active directory;

AWS Management Tools:  
Cloudwatch: Monitor resouces and application (CPU,disk,instance avlaie monitor)

Couldformation:create and manage resouce with template

Could Trail:Track user acitivity and API usage

Cinfig:Track resouce inventory and changes

OpsWorks:automate operations using Chef

Service catalogue:create and use standaradize producats

Trusted Advisor:optimize performace and security

Aws Application Service:

Step funcation:coordinate distributed application

API Gateway:Build deploy and mange aPI

AppStream: Low latency application

Elastic Transfcode:convert video file

SWF:wrokflow service for coordinating application

AWS devloper tools:

Commit:,Build,deploye,pepeline

Messaging:

SES:Email sending and receiving service

SQS:message queue servide

SNS :Push notification service

Billing Alarm:

Loging 🡪my billing🡪enable billing 🡪alret.recvingbill alert🡪save perfance

Couldwatch🡪aleram🡪careate alerm🡪

Day12:

<https://www.facebook.com/samthecloudguy/>

IAM:

Shared access to your aws account

Granular permissions

Secure access to aws resources for applications that run on Amazone

Idenity federation

Idenity information for assurance(Could trail)—

PCI DSS compliance

Integrated with many aws services

Eventually consistent

Free to use

IAM is not region specific it is GLOBAL

IAM Account: console: <https://049415284948.signin.aws.amazon.com/console>

EC2:

Amazon Elastic Compute Cloud (EC2) is webservice that provides resizable compute capacity in the could it is designed to make web scale computing easier for devlopers

Instant provisioning

Auto scaling

ELB

Low cost

Resizable

EC2 five general family---General purpose

EBS –Elasic block storage let you to create storage valumes and attached it with ec2 instance exe:harddisk

Block based

Con install software used for storage

EBS volumes are :5 types of

General purpose SSD(GP2) uto 10K IOPS

Provisioned IOPS More than 10K we should go with that

Windows instance

Get the pssword and

Username and password

|  |  |
| --- | --- |
| **Public DNS** | ec2-13-127-173-194.ap-south-1.compute.amazonaws.com |
| **User name** | Administrator |
| **Password** | WWuZzM5K;G |

Valume and snapshots:

Volumes are EBS storage spaces

Backup of EBS volumes are known as snapshots

Done in increemntal fasion

You can backup the data on your EBS volumes to Amozon S3 by taking point -in-time of snaphots

To take snapshot of root EBS volume stop the instance and then take sanphot for date integrity

Sanpshots of encrypted volumes are encrypted by default

RAID options:

Redundant array of indepent Disk

Perferred for better I/O

RAID0—

RAID2:--Mirrored ,redundancy model

RAID5🡪parity Checksum model (not suggested by AWS)

Goto -🡪volumes🡪create snapshot🡪

**Un ecripted snaphot can be sharable**

Security group:

Act as virtural firewall that controls the traffic for one or more instances

When you launch an instance you associate one or mor security groups with the instance

You add rules to ecah security group that allow traffic to or form its assocate instance

Security group are statefull

AMI:

Amazone machine image:

It is bule print of template(it contains temples for root volume)

Lauch permission that control which aws account can use the AMI to lancuh instnace

ColudWatch:

By defult all EC2 instance all basic monitoring are neabled

Placement Groups: part36

AWS same set of EC2 instance are keep into one Regsion that will give you better perfoamce

<https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/placement-groups.html>

ELB:

Create custom Load balance

EC2ELB-1683614070.ap-south-1.elb.amazonaws.com

Auto scaling:

Autom caling helps you maintain application avaliability and allow you to scale your amaozn EC2 capcity up or down automaticall according to conditions you define

You can use auto scaling to help ensue that your are running you desired number of amazon ec2 instances

Automatically increase the number of amazone EC2 instance during demanad spikes to maintain performace and drecrease capcity during lulls to reduce costs

**Lanuch congiruation**

**Create Auto Scaling group**

Echo “HI This is autoscaling call “ >/var/www/html/index.html

Service httpd start

Chkconfig httpd on

Create Auto scaling roup:name of Group nmae

Group Size:2

Network:default VPC

Subnet : select both are exisiting

LoadBalancing: enable or click on that

Classic load balance :select ELB

After that click next-🡪use scalling policies to adjuest the captcity of this group

Scale betwwen keep two

Increse group size:

Name :same

Execuque policy:

Day40:EC2 Metadata:

Dyanamic data ,userdata,metada in running instnace

<http://169.254.169.254/latest/meta-data>

curl <http://169.254.169.254/latest/meta-data/>

<http://docs.aws.amazon.com/AWSEC2/latest/UserGuid>

EFS elastic file sytem:

It provide elastic storage and shared to multiple EC2 instance

Simple scalable file storage for use with EC2 isntance in AWS colud

Growing and shining,whn mounted on CE2 instance and allow common data sotraage provide existing applictaion and tools

S3 Smiple storge service:

S3 is storage for the internet,it is a simple storage service that offers software devlopers a highly scalable reliable and low latency data storage infrasture at very low costs

Provide simple webservice interface that you use store and revice

Unlimited data and number of objects you can store

Mulipart upload is possible too

Object level storage (exmple drop box)—realiablity and avalibaility

Files are stored in buckets ,storage classes including

**Less frequtely accessed data stored Galcier for long term archive.**

Reduced redundancey storage (RRS) in an amzoae s3 storage option that enables customers to reduce there costs by storing noncritical re

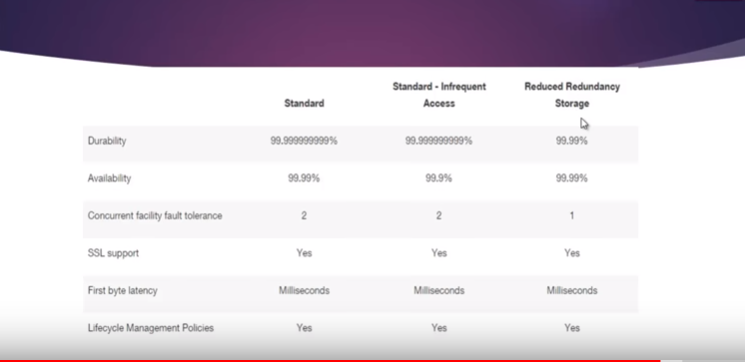
https://s3-apsouth1.amazonaws.com/thisismybucketname

https://ap-south-1.console.aws.amazon.com/ thisismybucketname

99.9999 AKA 11\*9 durability

Secure data using ACL and bucket policies even to granular /object level

Versioning backup option and cross region replication is possible



**Security:**

Bucket policies

ACL drill down to obejct level access

**S3 encription:**

Data transsit :SSL/TLS

Data at rest

SSE-S2,SSE-KMS,SSE-C,

<https://aws.amazon.com/faqs/>

Note : By default when we create S3Bucket It would be private

If you enable Cross regiion you must be enable versioning and copy should be avalible in different area.

**AWS Partner webninars and amount gaining:**

<https://aws.amazon.com/webinars/partner-webinars/>

**Billing limits:**

[**http://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/free-tier-limits.html**](http://docs.aws.amazon.com/awsaccountbilling/latest/aboutv2/free-tier-limits.html)

AWS Galcier:

Extremely low-cost storage service that provides secure durable and flexible storage for data backup and archival

Upload your data into Gralier Amazon will take every thing

Data will define colud data :it takes time to download

By using AWS SDK , S3 Life cycle we can keep data into Gacier

<https://aws.amaxon.com/galcier/faqs/>

if you want restore data from Galicer it would take 3 to 4 hours time

suggesting only store the data purpose

AWS CLI:

My access Key: AKIAJ66MX3FDN2MO2BRQ

Secrete access key: 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

[ec2-user@ip-172-31-10-149 ~]$ python --version

Python 2.7.14

[ec2-user@ip-172-31-10-149 ~]$ aws --version

aws-cli/1.15.83 Python/2.7.14 Linux/4.14.77-70.59.amzn1.x86\_64 botocore/1.10.82

**How to create CLI : -🡪Aws configure**

[**https://docs.aws.amazon.com/cli/latest/userguide/installing.html**](https://docs.aws.amazon.com/cli/latest/userguide/installing.html)

**CDN-AW cloud front:**

Content delivery network :is network of distributed server wich deliver content(think of webpage/app) to en user absed on geographical location them orgin of sourge page and CDN Server

OriginServer 🡪Edge server

CDN serve a large fraction of the internet content today

CloudFront:web service that gives businesses and web application developer an easy andcost effetive way to distibute conntet with low latency and high data trsfer

Edge location palce where the content will be cached.

Dristibution :collection of Edge location and your CDN network

TTL(Time to Live)

Orgion: Souce of file content that CDN will deliver /desitribute ,can be S3,EC@...etc

<https://aws.amazozn.com/cloudfront/faqs/>

Need to work lab: part51

AWS Storage gateway:

It act as bridge between our onprimeses and aws cloud

Onprimse🡪storage gatway🡪aws

Snowball:

Data trasport solution that accelerates moving terabytes to petabytes of data in out of aws using storage

Snowball edge is a 100TB data trafer device with on board storage and cmpute power for select aws capabilities.

Nowbmobile is the first exabyte-scale data migration service that allows you to move vaey large datasets from on premises to aws.

[https://aws.amazon.com/snowball/faqs/](https://www.youtube.com/redirect?event=video_description&v=PQKFuQigG3Q&q=https%3A%2F%2Faws.amazon.com%2Fsnowball%2Ffaqs%2F&redir_token=er-IE1BFsZR10UAhabSV5fPEHFF8MTU0MjcxMDI2NkAxNTQyNjIzODY2) [https://aws.amazon.com/snowball-edge/...](https://www.youtube.com/redirect?event=video_description&v=PQKFuQigG3Q&q=https%3A%2F%2Faws.amazon.com%2Fsnowball-edge%2Ffaqs%2F&redir_token=er-IE1BFsZR10UAhabSV5fPEHFF8MTU0MjcxMDI2NkAxNTQyNjIzODY2) [https://aws.amazon.com/snowmobile/faqs/](https://www.youtube.com/redirect?event=video_description&v=PQKFuQigG3Q&q=https%3A%2F%2Faws.amazon.com%2Fsnowmobile%2Ffaqs%2F&redir_token=er-IE1BFsZR10UAhabSV5fPEHFF8MTU0MjcxMDI2NkAxNTQyNjIzODY2) [https://www.facebook.com/samthecloudguy/](https://www.youtube.com/redirect?event=video_description&v=PQKFuQigG3Q&q=https%3A%2F%2Fwww.facebook.com%2Fsamthecloudguy%2F&redir_token=er-IE1BFsZR10UAhabSV5fPEHFF8MTU0MjcxMDI2NkAxNTQyNjIzODY2)

Route53:

DNS service converts human friendly domain name to corrsponding IP address

Route53 is a highly avalibale and scalable could domain name systme(DNS) web service .

Udp,tcp are using port 53:

Cost around 10$ to 30$

Top level domain:a top level domain or TLD is th

Name Server: a name server is a computer designated to translate domain names into IP addresses.

These server do most of the work in domain

Zone file: it is simple test file that contianes the mappings between domain name and IP adressess .

MX records : mail exachanges

**Register domain names:**

**Route internet traffic to the resources for your doamin**

**Check the health of your resoure;**

[http://docs.aws.amazon.com/Route53/la...](https://www.youtube.com/redirect?event=video_description&v=Kw0CA5Jlj2M&q=http%3A%2F%2Fdocs.aws.amazon.com%2FRoute53%2Flatest%2FDeveloperGuide%2Froute-53-concepts.html&redir_token=SQfqMUnfyds3quFhiH5jzoe80iB8MTU0MjcxNTU4N0AxNTQyNjI5MTg3) [https://aws.amazon.com/route53/](https://www.youtube.com/redirect?event=video_description&v=Kw0CA5Jlj2M&q=https%3A%2F%2Faws.amazon.com%2Froute53%2F&redir_token=SQfqMUnfyds3quFhiH5jzoe80iB8MTU0MjcxNTU4N0AxNTQyNjI5MTg3) [http://docs.aws.amazon.com/Route53/la...](https://www.youtube.com/redirect?event=video_description&v=Kw0CA5Jlj2M&q=http%3A%2F%2Fdocs.aws.amazon.com%2FRoute53%2Flatest%2FDeveloperGuide%2Frouting-policy.html&redir_token=SQfqMUnfyds3quFhiH5jzoe80iB8MTU0MjcxNTU4N0AxNTQyNjI5MTg3) [https://www.facebook.com/samthecloudguy/](https://www.youtube.com/redirect?event=video_description&v=Kw0CA5Jlj2M&q=https%3A%2F%2Fwww.facebook.com%2Fsamthecloudguy%2F&redir_token=SQfqMUnfyds3quFhiH5jzoe80iB8MTU0MjcxNTU4N0AxNTQyNjI5MTg3)

1st session of Route53 lab. -Domain registration on AWS (Charges applicable) -Implementation of ELB backed EC2 hosted websites [https://www.facebook.com/samthecloudguy/](https://www.youtube.com/redirect?redir_token=DxNzeCpNASkmrhsA7z3Sch0bxrt8MTU0MjcyMDU5OEAxNTQyNjM0MTk4&q=https%3A%2F%2Fwww.facebook.com%2Fsamthecloudguy%2F&event=video_description&v=OKW9htLhap0)

#!/bin/bash

yum update -y

yum install httpd -y

service httpd start

chkconfig httpd on

echo "<html><body><h1><center>This is srinivas EC2 </center></h1></body></html>" > /var/www/html/index.html

AWS database:

RDS,DynamoDB,ElasticCache,RedShift,DMS,

Manged Relational DB service🡪important tops

Redshift is datawarehousing solution from AWS

Amazon cloud directory: to build flexible cloud native diretories for org

**Database Engines on RDS**

Amazon aurora,oracle,SQL,Mysql,PostgraceQL,maria DB

Non \_Relational DB: exp : dynamo DB

Example :big data application ,colum store graph store ,image store

**Redshift-dataware house**

It Is a fast fully managed data ware house solution

Very less cost

**Amazon ElasticCache** is a web service that ake it easy to deploy operate and scale an in-memory data store or cahche in the could .the service imporves the performance of web application by allowing you retrieve information form fast managed in-memory data stores instead of r

**Redis-a fast open** source in-memory data store and ahche amazon Elasticache for redis is a

MySQLworkbranch soft to test the mySQL connection

Only enable options eligible for RDS Free Usage Tier

**WS tutorial-Part60:Lab25**

DB snapshots are user initated and enable you to back up your DB instance in a known state as requently as you wish and then restore to that specific stat at nany time.

**To delete :enter text box** delete me

Dynamo DB :Accelerator (DAX) is a fully managed higly avalialbe in-memeory cahge that can redue Amazon DynamoDB response time form missllisecound to microsecounds enve.

Elasticcache: is improve the performace of your web application,

It has cutomatically detects and replaces failed nodes reducing the overhead associated with self manged insfrasturees and provides a resilient sytem that mitigates the risk of overloaded databaes.

**Redis and Memcached** two open source are opend for in-Memroy engines.

Redis: a fast opend source in-memory data store and chache .

[https://aws.amazon.com/elasticache/](https://www.youtube.com/redirect?event=video_description&v=BM2bWPjIAXw&redir_token=yoQMFp3cao2f7PqAkaas4Qkb4p58MTU0Mjc5NzkyMUAxNTQyNzExNTIx&q=https%3A%2F%2Faws.amazon.com%2Felasticache%2F) [https://aws.amazon.com/redshift/](https://www.youtube.com/redirect?event=video_description&v=BM2bWPjIAXw&redir_token=yoQMFp3cao2f7PqAkaas4Qkb4p58MTU0Mjc5NzkyMUAxNTQyNzExNTIx&q=https%3A%2F%2Faws.amazon.com%2Fredshift%2F) [https://www.facebook.com/samthecloudguy/](https://www.youtube.com/redirect?event=video_description&v=BM2bWPjIAXw&redir_token=yoQMFp3cao2f7PqAkaas4Qkb4p58MTU0Mjc5NzkyMUAxNTQyNzExNTIx&q=https%3A%2F%2Fwww.facebook.com%2Fsamthecloudguy%2F)

DMS:

Data base migration service helps you migrate databases to aws easily and securely.

Simple to use

Minimal downtime

Support most widely used databses

Reliable

Fast and easy to set up

Low coast

Amazon virtual private cloud (VPC):

Sub-cljould inside the aws pulblic cloud it is inside an isolated logical network

Subnet: a range of IP address in your VPC

Public: subnet for resources that must be connected to internet

Private subnet resoucres that wont be connected to internet

Security groups:

At as a firewall for associated EC2 instance controlling both inbound and outbound traffice at insta

Network access control list (ACLs)at as firewall for associated ssubnets controlling both inbound

Route : contins a set of rules called routes that are used to determine where network traffic is directed

VPC peering:

Two VPC os that enables you to route traffic between them using private IPV4 addresses or IPV6 address.

Both VPC must be in same region

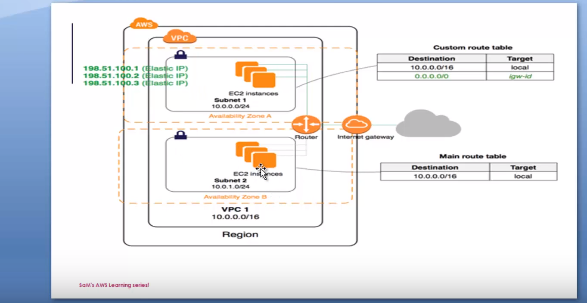
VPC to create a VPC peering connection it is neigher a gateway nor a vpn connection and does not rely on a separate piece of physical harware.there is no single point of failure for commnunication or bandwith bottlenect

Usercases:

One to one connection between VPC

No transitive peering is possible

An Elastic IP address is a static IPV4 address designed for dynamic cloud computing .



NAT instances:NAT gatway:

Network address translation

Receiving inbound traffic initiated by someone to the internet This is only outbound trafic

NAT Gateway;

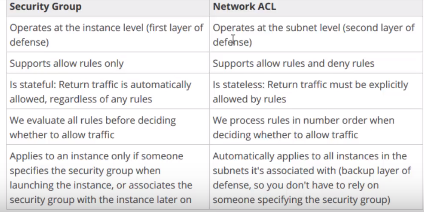
**Goto community🡪select Nat EC2**

Once instance is up and running🡪Action🡪changesource disbale instance

[http://docs.aws.amazon.com/AmazonVPC/...](https://www.youtube.com/redirect?q=http%3A%2F%2Fdocs.aws.amazon.com%2FAmazonVPC%2Flatest%2FUserGuide%2FVPC_NAT_Instance.html&event=video_description&redir_token=0_X_T3tPrL5lnV1fiIA-TRsND0l8MTU0Mjg0NzcwNEAxNTQyNzYxMzA0&v=tXLl6vimG_4) [http://docs.aws.amazon.com/AmazonVPC/...](https://www.youtube.com/redirect?q=http%3A%2F%2Fdocs.aws.amazon.com%2FAmazonVPC%2Flatest%2FUserGuide%2Fvpc-nat-gateway.html&event=video_description&redir_token=0_X_T3tPrL5lnV1fiIA-TRsND0l8MTU0Mjg0NzcwNEAxNTQyNzYxMzA0&v=tXLl6vimG_4)

**ElasticIP: if you don’t have any public ip create by using ELStic IP🡪Action select EC2 instance and assigned to that**

[http://docs.aws.amazon.com/AmazonVPC/...](https://www.youtube.com/redirect?q=http%3A%2F%2Fdocs.aws.amazon.com%2FAmazonVPC%2Flatest%2FUserGuide%2FVPC_NAT_Instance.html&event=video_description&redir_token=0_X_T3tPrL5lnV1fiIA-TRsND0l8MTU0Mjg0NzcwNEAxNTQyNzYxMzA0&v=tXLl6vimG_4) [http://docs.aws.amazon.com/AmazonVPC/...](https://www.youtube.com/redirect?q=http%3A%2F%2Fdocs.aws.amazon.com%2FAmazonVPC%2Flatest%2FUserGuide%2Fvpc-nat-gateway.html&event=video_description&redir_token=0_X_T3tPrL5lnV1fiIA-TRsND0l8MTU0Mjg0NzcwNEAxNTQyNzYxMzA0&v=tXLl6vimG_4)



AwS SQS:

[https://aws.amazon.com/sqs/](https://www.youtube.com/redirect?redir_token=D7DrWuge3YPEOqhNlUpMm4x_pzp8MTU0Mjg1MTM0OEAxNTQyNzY0OTQ4&v=orjqxxtbk44&q=https%3A%2F%2Faws.amazon.com%2Fsqs%2F&event=video_description)

message queues allow different parts of a systme to communicate and process operation Ausc

Amazone simple queue ser ice is reliable highly scalable hosted queue for storing messages as they travel between applications or microser ies.moves data between distributed application componenets and helps you decouple these components.

**SQS is pull based system.**

**AWS SNS:**

**Simple sonotification service(SNS**) is a flexible fully managed pub/sub messaging and mobil notification ser ie for coordinating

Push base systen and instantaneour delivery

AWS SWF:

Simple wrokflow service for building scalable resilient application.

Provides simple API call that can be executed from code wiritten in any language and run on your EC2 instances or any of your machines located any where in the world that can access the internet.

Logical separation

Workflow retention up to 12 months

Uses cases

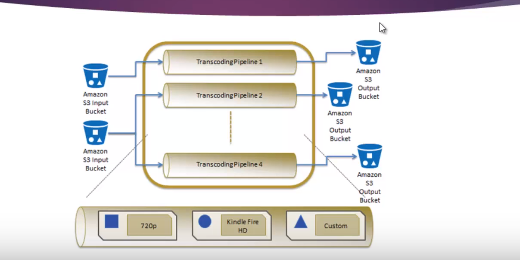
Video encodeing/dedia processing

AWS Elastic transcoder:

Converting media to different formate

Preset for different end devices

We just need to specifiy the input file and find the out fine



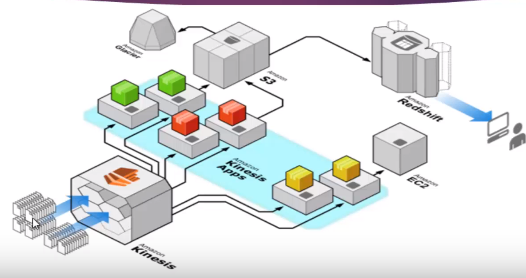
AWS KINESIS:

[https://aws.amazon.com/kinesis/](https://www.youtube.com/redirect?redir_token=DPvxyIMtfSPiopfGkezr03Y3ckB8MTU0Mjg2NDU4NUAxNTQyNzc4MTg1&v=TRF1fRXswK0&q=https%3A%2F%2Faws.amazon.com%2Fkinesis%2F&event=video_description)

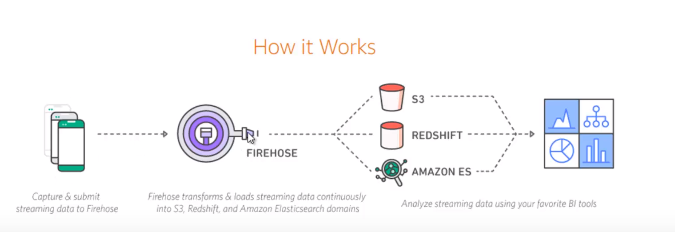
what is streaming data:continuously by thousneds of data sources which typicall send in the data recods simultaneously.

Kinesis: is easy to collect ,process and analyze real time straming data so you can get imely insight and react quickly to new information.

Kinesis streams; capture and store terabytes of dat per hou from hundreds of thousnads of source such as website clickstream,fincial transation socaial mdeaia feeds IT logs and location tracking events.



Kinessi firehouse:is easiest way to load streaming data into aws.it can capure trasform and load streaming data into amazon kinesis nalaystics ,s3,redshift and elasticsearch sercie …



AWS API Gateway & workspaces:  
[https://aws.amazon.com/api-gateway/](https://www.youtube.com/redirect?event=video_description&v=BZUkQY-ZQDI&q=https%3A%2F%2Faws.amazon.com%2Fapi-gateway%2F&redir_token=zQyClQgWCkrzY7EqmQPqQdNx4pN8MTU0Mjg2NTQ5NkAxNTQyNzc5MDk2) [http://docs.aws.amazon.com/apigateway...](https://www.youtube.com/redirect?event=video_description&v=BZUkQY-ZQDI&q=http%3A%2F%2Fdocs.aws.amazon.com%2Fapigateway%2Flatest%2Fdeveloperguide%2Fapi-gateway-basic-concept.html&redir_token=zQyClQgWCkrzY7EqmQPqQdNx4pN8MTU0Mjg2NTQ5NkAxNTQyNzc5MDk2)

Low coast and efficient

Perforamce t any sacle/cashcing

Easily monitor

Workspace is fully managed secure desktopas a sercie (Dass) solution which runs on AWS.

Virtual desktop infrasturecture(VDI) solution

AWS Lambda:

[https://aws.amazon.com/lambda/](https://www.youtube.com/redirect?redir_token=qeYlOLULPOSAsLWTMP590SjjJfB8MTU0Mjg2NTg5NEAxNTQyNzc5NDk0&v=FAxkL6hcZXI&q=https%3A%2F%2Faws.amazon.com%2Flambda%2F&event=video_description)

is serverless compute sercie that run your code in response to events and automatically manges the underlying compute resouces for you

it can run code without provisioning managin servers.

You pay only for computer time you consume

Supporing :node.js,c#,java,pytohon,

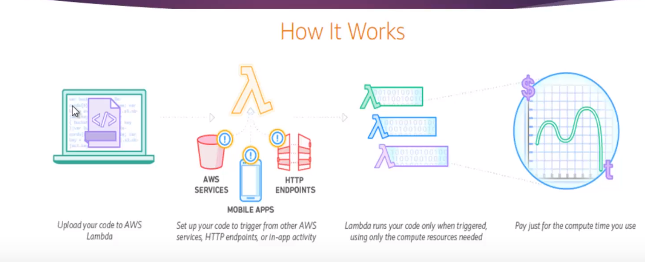
The code must be written in steteless style

Benefits:

No servers to manage

Continuous scaling

subsecound metering



**Use cases:**

Data processing

Real time file processing

Real time stream processing

Extract transform load

Backends

Web application

AWS could formation:

It gives developers and sytems administrators an easy way to create and manage a collection of realted aws resoucres provisioning and updating them in an orderly and prediateable fasion

Sample templates or create your own tempaltes to describe the aws resouces and any associated dependncies or runtime parameters reauired to run your application

Benefits:

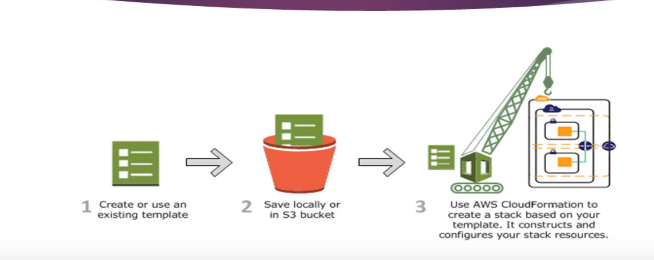
Infrasture as code

Ease of replication

Easily contral and track changes to your infrasture

Support a wide reange of aws resources

Stackes: you manage related resouces as single unit called a stack.



BGP and ASN:

Border Gateway Protocol(BGP) is a standaraized exterior gateway protocal desgined to exange routing and reachability ifnromation among auonous systme(AS) on internet

Automous system number are used to identify network that present a clerly defined extenal roting policy to internet . you can pick any private ASN number between 64512 to 65535 range.

Data Sets:Satellite image that are stored into AWS.

DynamoDB

Data Model tables: somiliar to aother Database system.

Itmes: Each table contains mulitple table

Secoundray indexes : you can carate one or more secoundary index

Storing Json document,

AWS service Health dashbaord:

<https://status.aw>.

AWSENI

Auto scalling Termination policy

Opsworks: Atomation configuration managemant we can used chif and puppet purpose

ECS: container and images,standerad unit of software called continer

Task deifnaitions: it is text file one more taks in the cluster

Tasks and scheduling:

Clusters

Container agent

Linux

ENI: An elastic network interface (as network interface ) is virual network interface that you can attache an instrance in a VPC.

Evey instance in a VPOC has defalut network interface called the primary

Auto scaling termination policy:

Exm: dump:

[https://www.briefmenow.org/amazon/](https://www.youtube.com/redirect?q=https%3A%2F%2Fwww.briefmenow.org%2Famazon%2F&v=YN3tqZzAPWI&event=video_description&redir_token=MCe_8otWdqjdgNbOKoUnCbIL0qV8MTU0MjkzNzA0MEAxNTQyODUwNjQw) [http://testkingaws.com/amazon-availab...](https://www.youtube.com/redirect?q=http%3A%2F%2Ftestkingaws.com%2Famazon-available-exams%2F&v=YN3tqZzAPWI&event=video_description&redir_token=MCe_8otWdqjdgNbOKoUnCbIL0qV8MTU0MjkzNzA0MEAxNTQyODUwNjQw) [http://devcertguru.com/certifications...](https://www.youtube.com/redirect?q=http%3A%2F%2Fdevcertguru.com%2Fcertifications%2Famazon&v=YN3tqZzAPWI&event=video_description&redir_token=MCe_8otWdqjdgNbOKoUnCbIL0qV8MTU0MjkzNzA0MEAxNTQyODUwNjQw) [http://jayendrapatil.com/tag/aws/](https://www.youtube.com/redirect?q=http%3A%2F%2Fjayendrapatil.com%2Ftag%2Faws%2F&v=YN3tqZzAPWI&event=video_description&redir_token=MCe_8otWdqjdgNbOKoUnCbIL0qV8MTU0MjkzNzA0MEAxNTQyODUwNjQw) [https://www.facebook.com/samthecloudguy/](https://www.youtube.com/redirect?q=https%3A%2F%2Fwww.facebook.com%2Fsamthecloudguy%2F&v=YN3tqZzAPWI&event=video_description&redir_token=MCe_8otWdqjdgNbOKoUnCbIL0qV8MTU0MjkzNzA0MEAxNTQyODUwNjQw) [https://www.slideshare.net/samtheclou...](https://www.youtube.com/redirect?q=https%3A%2F%2Fwww.slideshare.net%2Fsamthecloudguy%2F&v=YN3tqZzAPWI&event=video_description&redir_token=MCe_8otWdqjdgNbOKoUnCbIL0qV8MTU0MjkzNzA0MEAxNTQyODUwNjQw) <https://www.youtube.com/c/SaMtheCloudGuy>

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[http://jayendrapatil.com/tag/aws/](https://www.youtube.com/redirect?q=http%3A%2F%2Fjayendrapatil.com%2Ftag%2Faws%2F&v=YN3tqZzAPWI&event=video_description&redir_token=MCe_8otWdqjdgNbOKoUnCbIL0qV8MTU0MjkzNzA0MEAxNTQyODUwNjQw)