PAGE / 20 DATE 24/12/21
Day 20/160: Cloud Integration
when we skert deploying multiple application, they will inevitably need to Communicate with one
nother. • There ore two fatterns of application Communication.
1) Synchonous Communications [application to application]
Buying Shipping Service Service
2) Asynchronous / Gunt based
Service - Que Service
in the contract of the contrac
· Synchronous blw application can be problemate If there are sudden straffic · Wheat if you need to suddenly encode low
videux but usually it's 10?

24/12/21 PAGE 1 2 1 DATE · In that care, it's better to decouple your application - Using SQS: queue Model - Using SNS: pub/846 model - Using Kinesis! real Ame Lake Streaming There service can scale independently Our application. # 8Q3 - Simple Queue Service Consumer reducer Send meroon, DIIII 1 SUS QUE Consumer · Oldest AWS offering Lover 10 years old) · Fully managed service (reserverless), use to decouple applications · dales from 1 message per second to 10,000 per second.

PAGE 1 22 · Default retention of mersage: 4days, maximum · Message are delete after howere regid · Low latery Coloms on bullish and received · Consumer share the work to read message ? 3 SQS to decouble you application hers: WEB Servers EC2 instance GCZ instance 2 unt 1 865 Queu SNS - Simple Notification Service you want to send one murage to receiving.

PAGE [2 3 Direct Integration Frono Buying Service Service Service Pub/846 > Gmail Buging Frond Service Serve SNS Amoron SNS=>
The event full shers" only sends money to 18 00 00 18 18 A One SNS teplo

a many "exact subscribes" as we want EKS

26/12/21 PAGE / 25 · back subscriber to the topic notification.

· back subscriber to the topic will get all the miney.

· 46 to 10,000,000 subscriptums for topic 100,000 - SNS Subscriby can be!
- 47119/41118 C with deliny rating - how may times) - Grails, SMS message, Mobile notification. - SQS queun Clan-out buttern), Lambela Junton (write-your-own integralin). # Amoran Kinesis · Kinesis = real-time by data Straining · Monaged sorvice to collect, from and analyse roal time straining data of any scale To detall for the · Kineris Data Strooms: law ladency Streaming Sols from Lundsels of Kards of Savas.

Kinesis Data Fixehouse: load Stream into S3, Red & lot , Glash Search etc. · Kiners Data Bralytics: perform red time analytics on Strem ism SOR 1 Kinerys Video Stram 1 monitors rul time video
Streons at analytics or Mr.

26/12/21 DATE | | | PAGE / 2 5 H Flmgzon MG USing preprietory protocols from Aus Using broknetay balocals from Aws.

" Traditional application running from
On browning may use open balocals
such as Magn, AMOST, STOMP, Openwise, WSS.

" When migrations to cloud instead of
The engineering the application to the When migrations to cloud instead of The engineering the opplication to use SGS 8SNS, we can use Amazon MQ. · Hmazon MQ = managed strocke StareMQ. · Amquen Ma clausit "scale" as much sas/sis · Amozon Ma run on a dedicated machine · Amazon Ma Res both queue hepyre (-565)

Ond fepte hihms (~SMs).