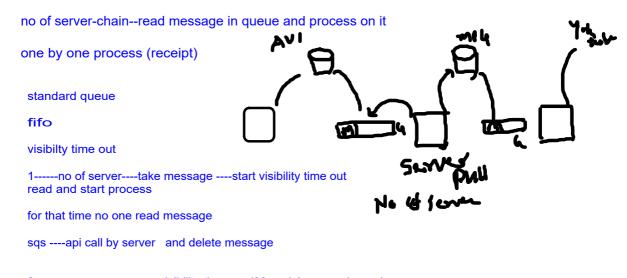
# SQS----simple queue service

# message queing service



2----message process ---visibility time out (30 sec) (we can change)

3---no process---api call by server to increase time if no process --automatically message visible

4 -3 server process

dead letter queue---possibe in standard not possible in fifo

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```
pull services-server pull and process
web services, fast, reliable
message -wait for-process
queue between server
decoupleing ---different --one failure no problem -process done by other server--sqs provide decopule architecture
no need of cluster
sqs many mesage --without delete queue can delete message
no of server --read message and process
all instance read message and process
if your queue size increase ----automatic---auto scaling
sqs message done ---forward another process to other server
multiple queue
standard and fifo queue
standard -high throuput---unlimited throughput ---no sequence ---all process
q1 --four message ----at least one time process ---one to more time may be process --duplicates
best effort --ordering may be change
first message first process and then another in sequence --- fifo---300 throughput
only one time --no duplicate---streak ordering
better than standard
billing----free tier month 1 million monthly request
0.4 $ million request per second ---standerd
0.5 $ million request per second --fifo
charge
api call count as request ---it is chargeable
fifo request---send, delete, receive
content of request---i request have 1 to 10 message
total size----each 64kb one message ----256 kb queue (call)--it means 4 request
sqs ---store in s3 ---charge
encryption ---kms key ---charge
```

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### polling

means pull message from queue short polling and long polling shortpolling fast while fast polling take time

short polling ---contineous request ----no of request empty due to no message in queue request return to server immediately no waiting

receive message time = zero it means shot polling if we put value it means long polling

long polling --maximum prefere to wait if queue is empty --not immediately return

eliminate all empty response by queuing all server

#### retension period

how long message remain in queue (maximum 14 days) default 4 days maximum retention time complete auto delete message

sqs use with Dynamo DB , Red shift , S3 , EC2 , Lambda

# delivery delay

sender (server) send message delay (due to some process take a time)

Receive message wait time 0 second --short polling any value Long polling

## **Dead letter queue**

failure no of time in process and develop message in queue handle failure message (DLQ) dont use DLQ (dead letter queue ) in FIFO

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