Section 25 : AWS Other Services

AWS SES(Simple Email Service)

Machine generated alternative text:
AWS SES — Simple Email Service 
• Send emails to people using: 
• SMTP interface 
• Or ANS SDK 
• Ability to receive email. Integrates with: 
• SNS 
• Lambda 
• Integrated with IAM for allowing to send emails 

Summary of database

OLTP:

**OLTP** (Online Transactional Processing) is a category of data processing that is focused on transaction-oriented tasks. **OLTP** typically involves inserting, updating, and/or deleting small amounts of data in a database. **OLTP** mainly deals with large numbers of transactions by a large number of users

OLAP

**OLTP** and **OLAP**: The two terms look similar but refer to different kinds of systems. Online transaction processing (**OLTP**) captures, stores, and processes data from transactions in real time. Online analytical processing (**OLAP**) uses complex queries to analyze aggregated historical data from **OLTP** systems

NOSQL

CACHE

DMS : to move data from one database to another

Machine generated alternative text:
AWS Databases Summary 
• Redshift: OLAP — Analytic Processing 
• RDS: Relational databases, OLTP 
• PostgreSQL, MySQL, Oracle.. 
• Aurora + Aurora Serverless 
• Provisioned database 
• DynamoDB: NoSQL DB 
• Managed, Key Value, Document 
• Serverless 
• ElastiCache: In memory DB 
• Redis / Memcached 
• Cache capability 
• Data Warehousing / Data Lake 
• Analytics queries 
• Neptune: Graph Database 
• DMS: Database Migration Service 
• DocumentDB: managed MongoDB 
for AWS 

Amazon Certificate Manager( ACM)

**AWS Certificate Manager**. **AWS Certificate Manager** is a service that lets you easily provision, manage, and deploy public and private Secure Sockets Layer/Transport Layer Security (SSL/TLS) **certificates** for use with **AWS** services and your internal connected resources.

Machine generated alternative text:
AWS Certificate Manager (ACM) 
Users 
Public www 
HTTPS Request 
Provision and 
ALB 
Maintain Cert 
SSL 
Termination 
Private AWS 
HTTP Request 
EC2 
• To host public SSI- certificates in AWS, you can: 
• Buy your own and upload them using the CLI 
• Have ACM provision and renew public SSL 
certificates for you (free of cost) 
• ACM loads SSL certificates on the following 
integrations: 
• Load Balancers (including the ones created by EB) 
• CloudFront distributions 
• APIs on API Gateways 
• SSL certificates is overall a pain to manually 
manage, to ACM is great to leverage in your 
AWS Infrastructurer 
AWS Certified Developer O Stephane Maarek 
ACM 
Less CPU cost in EC2 
Thanks to SSL termination for the ELB 

**Hands on**

**First search ACM**

Machine generated alternative text:
awS 
Resource Groups 
AWS Management Console 
AWS services 
Find Services 
You can enter names. keywords or acronyms. 
Q acm 
Access resources on the go 
Access the Management 
Console using the AWS 
Console Mobile 
App. Learn more 
Explore AWS 
Amazon ROS 
Set up, operate, and scale your 
relational database in the 
cloud. Learn more 
Run Serverless Containers with 
AWS Fargate 
AWS Fargate runs and scales your 
provision, 
ce 
Manager 
na g e, a md Deploy SSL/TLS Certificates 
y services 
Certificate 
Sir* 
Route 
Elastic Beanstalk 
le have written a note here. 
Build a solution 
Get started with simple wizards and 

Note : acm can be use with both public and private certificate

Machine generated alternative text:
AWS Certificate Manager 
AWS Certificate Manager (ACM) makes it easy to provision, 
manage, deploy, and renew SSI_JTLS certificates on the AWS 
Provision certificates 
Provide the name of your site, establish mar identity, and let ACM do the 
rest. ACM manages renewal of SSLJTLS certificates issued by knazon 
here. 
platform. 
Use 
Private certifi"te authority 
bu cr ywr IT Administrator can establish a secure managed infrastructure for issuing and 
revoking private digital certificates. Private certificates identify and applications, 
devices WithÉn organization. 

**But here go for public certificate**

Machine generated alternative text:
aws 
Resource Groups v 
Choose Import a certificate to import an existing certificate instead of requesting a new cne. Learn awe. 
Request a certificate 
Choose the tyFE Of certificate you want, and then choose Request a certificate 
Import a certificate 
stephane @ datacumulus-cour_. 
Support 
Request a certificate 
Request a public certificate 
O Request a private certificate 
Request a public certificate frorn Amazon. By default. public certifcates are trusted by browsers and operating systems. Learn more. 
Request a private from you organization's certificate authority. Leun 

Machine generated alternative text:
aws 
Resource Groups v 
stephane @ • 
Support 
Request a certificate 
I Step I: Add domain names 
Step 2: Select validation method 
step 3: Review 
Step 4: Validation 
AWS Certificate Manager domain nunes yur nto certificate (CT logs renewing You can opt out of CT 
Learn more 
You CBI AWS Cetificate Manager certificate With othe AWS 
Add domain names 
Type the fuuy of the site to sæure SSL'TLS certifcate (for exam*, www.exam#.com). use an C) to request a Wildcard cMificate 
to votect several sites in the same domain. For example: •-example.com site-exarnple.com and images-example-com. 
Domain name• 
acrn-derno.itephanetheteacher.corn 
Add another name to this certificate 
You cm add additional nænæ to tha cettifK:ate. For if y•w're a cetifcate •www.exænpb.com•. you might want to add the narne •exænple.com• so that customers can reach your 
site by eithe nan-e. l_æn 
•At least domain name is required 
Titten a note here. 
Next 

Machine generated alternative text:
aws 
Resource Groups 
ne 
Request a certificate 
Step I : Add dc•nain 
I Step 2: Select validation 
Step 3: Review 
Step 4: Valdation 
Select validation method 
how AWS (ACM) we we to that you or control the for which 
ACM CM Of 
DNS 
to the *tifiC-ate 

Machine generated alternative text:
Request a certificate 
Step I : Add domain 
O Request in progress 
Step 2: Selet validation 
A a Stets to md Of certificate. 
Step 3: Review 
Istep 4: Validauon 
Validation 
Crute a CNN* E Yal AVVS Certif•ate M*lag« 'ACM) Can iSSi_R your 
but Cont— 
the CRAME to 
to the ACM Console. 
Pen&ng 
CNAME you *Ovider_ 
Note: DNS exists. You Can at any by 
the _ Leun 
Create record R "ute 53 
DNS to a 

Machine generated alternative text:
Create record in Route 53 
Bebw is validatin to 53 
Hosted 
_3a7Æ36t92&SNUa3e6522æ 1 
Create 

Machine generated alternative text:
Request a certificate 
Step 1 : Add names 
Step 2: validation 
Step 3: Review 
I Step 4: 
Request in 
A a Futtv to Of CÜtifEatø_ 
Validation 
Cræte a CNN/ E of StW AVIS Manager (ACM) can your 
TO to t» ACM COrSOle. 
Pen&ng 
Add the CRAME "Vice Provider. more. 
1 •aduyqr&t.acm. 
Note: Char•gög the to DNS can at any tinæ by 
Create record Route 53 
DNS was to 
DNS to a 
to 30 
, AWS to the 

**Certificate is issued**

Machine generated alternative text:
aws 
Resource Groups 
ster•ne datw-l 
Certificates 
Certificates 
I Ceruncate Manager 
Support 
AWS Cethcate (CT Carl Of CT l_eæn 
1 rnpM a 
ætifcat e 
Amazon 
No 
Viewing certificates t to I 
Renewal eligibility 
certificates to 
Private certificate authority 

**Create a beanstalk with load balancer and load balancer have ssl certificate on it**

Machine generated alternative text:
to environment processes. 
Application I oad Balancer listener 
Application Load 
You can specify listen 
Security settings 
using a specified p 
standard web server on 
- Chcose a c. 
cFc6056-SIc5-43b3-8d3b-d68c8b36ba9e 
SSL 
Processes 
For each environment 
to the process. You can also 
5:12/ 8:58 

**Create a cname record**

Machine generated alternative text:
aws 
I Hosted zones 
Traffic flow 
Traffic 
policy records 
Domains 
Regi Stered 
Pending req•eStS 
Resolver 
nd endp&nts 
Cæate Set 
X 
Amy Type : 
RZ&d 
lu.1*14S2 
dat— 
Create Reord 
Global 
Resource Groups 
Record Set Name 
Support 
CNN/ E — CarlMicS name 
TTL (S.ds): 
2 n stalk com 

**Note secure**

Machine generated alternative text:
Congratulations 
Ywr Erst AWS ELasbc Bemsu* js is m 
AWS 
What's Next? 
. AWS 

Machine generated alternative text:
Congratul 
Ywr Erst AWS ELasbc Bemsu* js 