

EC2

I

- 1 Launch an instance with .pem file
- 2 Check all the 3 boxes in Network settings
- 3 Connect it using ssh client or GUIS
- 4 Go to downloads
cd Downloads
- 5 Sudo yum update -y
sudo yum install httpd -y
sudo systemctl start httpd
sudo systemctl enable httpd.
- 6 Open public IPv4 and give http:// =

II

- 1 Launch an E2 instance with .ppk file
(Select ubuntu in AMI)
- 2 Check all the 3 boxes in network settings
- 3 Connect it using putty. Copy the IP address from ubuntu.
- 4 Paste it in putty host name & ssh → credentials → Auth browse the key (ppk) & accept.
- 5 sudo apt-get update -y
sudo apt install docker.io -y
sudo docker pull nginx
sudo docker run -d -p 80:80 --name my-nginx nginx
sudo docker exec -it my-nginx bash
cd /usr/share/nginx/html/
apt update & → apt install nano -y
nano index.html
ctrl + o & enter → ctrl + x → exit

S3

- 1 Create a bucket
- 2 Upload .html file
- 3 Bucket → permissions → block public access (uncheck) → ACL → Object ownership
↓
ACL → Everyone public access. → ACL's enabled
- 4 Object → permission → ACL → everyone public access.
- 5 Copy object URL & paste
- 6 Bucket → permissions → Versioning
↓
On
→ Edit static web hosting → Enable → .htm
- 7 Copy endpoint URL & paste (web hosting)
- 8 Delete the object and toggle the show versions option & delete the marker file to get back the del object.
- 9 Create 2 buckets (src, dest)
- 10 Enable versioning for both
- 11 Go to src → manage rules and give
- 12 Create a replication rule
- 13 Give replication rule name
- 14 Check apply to all objects
- 15 Give IAM role as LabRole
- 16 Save everything.
- 17 Upload a file in src and you can see it in the dest.

cloudFront

- ① Go to S3
- ② Create a bucket
- ③ Give name
- ④ Choose ACLs enabled
- ⑤ checked "block all public access"
- ⑥ Click "create bucket".
- ⑦ Go to bucket properties
- ⑧ Edit static web hosting
- ⑨ Click enable
- ⑩ Type index.html.
- ⑪ Save changes
- ⑫ Upload 2 files (index.html & .jpg)
- ⑬ Edit ACL for 2 files
Give permission Everyone (public access)
- ⑭ Go to cloudFront
- ⑮ Create a distribution
- ⑯ Select origin domain
- ⑰ WAF → Enable security protections
- ⑱ Select bucket edit ACL
- ⑲ Give all permissions
- ⑳ now paste the cloudfront. net
web page & open

SQS

- ① Open SQS service
- ② Click "create queue"
- ③ Give name and create queue
- ④ Go to Lambda service
- ⑤ "Create Lambda" function click
- ⑥ Click "Use a blueprint".
- ⑦ Give function name
- ⑧ Select "create a new role from
AWS policy".
- ⑨ Give "Role name".
- ⑩ Create function
- ⑪ Add a trigger → SQS
- ⑫ Give Queue. name
- ⑬ Go to IAM role → roles
- ⑭ Select the role
- ⑮ Add permissions → Attach policy
- ⑯ Give "SQS Full Access" & add permission
- ⑰ Now add trigger.
- ⑱ Change the Lambda code to send
key-value pairs message.
- ⑲ Send message
- ⑳ Check the output

SNS

- ① Go to SNS
- ② Click create topic
- ③ Select standard
- ④ Give name & create SNS
- ⑤ Create subscription
- ⑥ Select email
- ⑦ Give email
- ⑧ Confirm
- ⑨ Publish message
- ⑩ Any message
- ⑪ Send & check mail
- ⑫ Create another topic for number
- ⑬ Select standard
- ⑭ Give name and create SNS
- ⑮ Create subscription
- ⑯ Select SNS
- ⑰ Add & Confirm phone number
- ⑱ Publish message → Give any msg
- ⑲ Check notifications
- ⑳ Create another topic
- ㉑ Click create subscription
- ㉒ Select email & confirm subscription
- ㉓ Create a bucket
- ㉔ Uncheck block all public access
check I acknowledge
- ㉕ Now create bucket.
- ㉖ Go to bucket → properties → ^{Create new event notification}
- ㉗ Gives event name
- ㉘ Check All object events
check All object removal events
- ㉙ Select SNS topic

- ㉚ It gives error
- ㉛ Paste the code in
SNS - topic - Access policy (optional)
and change the code.
- ㉜ Upload and check the mail.

IAM

- ① Create ~~new~~ IAM user
- ② Give username
- ③ Check the box (Provide user access)
→ I want to create IAM user
(checkbox)
→ custom password
- ④ Uncheck the box "Users must create"
- ⑤ Attach policy (select)
- ⑥ Give S3 full access
- ⑦ Download & retrieve passwords
- ⑧ Go to security credentials ~~part~~ of roles
- ⑨ Create Access key.
- ⑩ Select CLI & check box and next
- ⑪ Download Access key & SAK.csv file credentials
- ⑫ Sign out of desktop & login to IAM user.
- ⑬ Create bucket in IAM
- ⑭ Try EC2 → it shows error
- ⑮ Go back to host.
- ⑯ aws configure
Access key
Secret Access key.
region
json.
- ⑰ ~~create~~ aws s3 ls
aws s3 mb s3://bucketname
- ⑱ Create group
- ⑲ Give group name

- ⑳ Attach ~~for~~ users & policy.
- ㉑ Create an basic ec2 instance
- ㉒ Connect using ssh key
- ㉓ aws conf
- ㉔ aws ec2 describe - instances
--region us-east-1
- ㉕ select users → add permission
↓
Administrators ← Attach pol:
- ㉖ aws iam create-user --
username user-name iamuser
- ㉗ aws iam create-login-profile
--user-name iamuser --password
newuser59j@123

Lambda

- ① Create a lambda function →
Author from scratch
- ② Give function name
- ③ Choose python 3.9
- ④ Use an existing role & ~~give name~~
- ⑤ Go to IAM role and select
aws service and select Lambda in
use case & click next
- ⑥ Add permissions → ~~S3 Full~~ DynamoDB
→ S3 Full Access
- ⑦ Give role name
- ⑧ Select the role in lambda func
- ⑨ Add trigger → S3
- ⑩ Create a S3 bucket (default)
(give name & create)
- ⑪ Choose bucket in lambda
- ⑫ Event types → First &
create
- ⑬ Create a table & give name as
'newtable'
- ⑭ Partition key → unique
- ⑮ Copy the code and add paste in
code section of lambda and deploy
- ⑯ Upload the object in bucket and
- ⑰ Check it in explore items