

---

---

Cloud || 6th July 2025

---

---

1. Recape
2. Cloud
  1. CloudWatch
  2. SNS
  3. SQS
  4. Route53
  5. CodeDeploy
  6. API Gateway
  7. AI for DevOps Amazon Q
  8. Lambda
  9. RDS
  - 10.

Plafrom Engineer

Terrafrom

ANsible

Jenkins

SAAS

IAC —> Terrafrom —> OpenTofu

Cloudwatch —> Monitoring —>

Promethues and Grafana and ELK Stack —> Log monitoring

CLoudwatch —>

Monitoring —>

1. Proactive monitoring
  1. 60% CPU Warning
  2. Production 75% of CPU usage → Critical
2. monitoring
  1. Production
  2. Df -h /100 disk

#### Monitoring

1. CPU usage → Directory cloudwatch
2. Ram usage → CloudAgent → main cloud watch metric
3. Disk usage → CloudAgent
4. Network → CloudAgent
5. Process monitoring → Cloudagent
6. Logs monitoring → Cloudagent
  1. Application logs
  2. System logs

200 response

504

Df -h → SSH

Installation

Configuration

1. CPU

2. RAM

Log

IAM role c

.json → Keep it

System manager → Server maintain → specific →

SQS → Queue

SNS → Simple Notification services

Shutdown → Start Mobile

Lambda → SQS → SNS

SNS →

1. Create new SNS topic
2. Add subscription to email
3. Open the gmail and confirm the subscription
4. Publish one message from SNS topic
5. Check the gmail for the email
- 6.

SQS

**Amazon SQS → kafka**

**Produce and subscribe**

Data producer and subscribe →

SQS → duration 14 days → DQL

Lambda or application → D

Serverless services →

Server start → weekends stop → Aws lambda → ec2 stop

Monday

EventBridge schedule => Lambda → Ec2 instance

Lambda function →

Def lambad handler

Use Cases —>

Statfull application —> Ec2 —> ECS —> EkS

Stateless application —> add hoc basic —>

1. Batch jobs

Laundry Application —> Public website —> Ec2 or website

Customer support —> Complllaint or exchange —> submit —> lambda job —>  
customer id —> SQS —> Database —> SNS —> notification send

Benefits —>

1. any code lang.
2. Manager server XXXX
3. SDK
4. AWS CLI

Loss

1. 15Min
2. Batch —>5min
3. 512MB
4. 10240MB

While —> un

Lambad function

1. Create new lambda function
2. Update basic
3. Run the execution

Home work Pipeline

SQS → Lambda → SNS → Notification