

AWS

- IAM → Identity Access Management, Global Service.
- AWS CLI → manage your AWS services using the CLI
- AWS SDK → manage using prog. lang.
- EC2 → Elastic Compute Cloud = IaaS
- EBS vol → Elastic Block Storage → network drive
- EBS snapshot → to transfer zones

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Subject

MEETING
WITH

1. In perf. h/w disk

• EC2 instance store

↳ EBS are nw drives with good but "limited" performance.

• AMI → Machine Image → customization of EC2.

Add SW, config. OS.

• EC2 image builder → automatically create VM or container images. Auto.

The creation, maintain, validate & test EC2 AMIs.

• EFS - Elastic file sys. → Can be mounted on 100s of EC2.

↳ CFS mount.

• Amazon FSx → 3rd party high-performance file sys. of AWS

• ELB → Load balancer

Date

Subject

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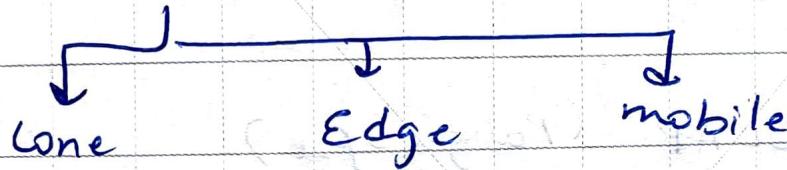
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MEETING
WITH

- Auto Scaling groups (ASG)

- Amazon S3 → OB storage

- Snow family.



- OpsHub → all snow app.

- AWS Storage Gateway → hybrid storage

service to allow on-pre-

mis to ~~see~~ seamlessly use the AWS cloud.

- Aws RDS → relational database service

- Amazon Aurora → PostgreSQL & MySQL
- Amazon elastic cache → in-memory database
- DynamoDB → NoSQL
- Redshift → OLAP (PostgreSQL)
- Amazon EMR → Elastic Map Reduce → Hadoop clusters
- Amazon Athena → serverless query service to analyze data in S3.

↳ analyze data in S3 using Dremel SPL,
use Athena

- Amazon QuickSight - Serverless machine learning powered BI service to create interactive dashboards
- DocumentDB → mongoDB
- Amazon Neptune → graph database, social media.
- Amazon QLDB → Quantum Ledger DB
→ recording financial transaction
- Am. Managed Blockchain → Hyperledger fabric, Ethereum
- AWS Glue → ETL → serverless.
↳ useful for ~~data~~ transform data for analysis.

- DMS → Data Migration Service
- ECS → Elastic Container Service
 - ↳ Docker container Launch
- Lambda → ↓ ↙ no EC2.
- ECR → Elastic Container Registry → store your Docker images
- AWS Lambda - Virtual func. short execution, on demand, scaling auto.
- API Gateway
- AWS Batch

- **Aws Lightsail** → web dev may want to see what's available
- **Cloud formation** → creates all for you (nearly) in right order & enact config.
- **Aws CDK** → Cloud dev. kit
 - ↳ dev. cloud infra. using any lang.
- **Aws CICD, Beanstalk**
 - ↳ developer centric view of deploying an app in Aws

↳ Pages

- AWS Code Deploy → deploy app. auto.
 - ↳ EC2
 - ↳ on-premises
 - ↳ Hybrid
- Code Commit → Git.
- Code Build → compiles source code, runs tests & prod. packages ready to deploy
- Code Deploy
- Code Pipeline
- Code Artifact → retrieve dependencies
- Code Star → Unified UI
- Cloud9 → IDE

• AWS System Manager (SSM)

↳ EC2 & On-Premises systems at scale

↳ Hybrid

↳ Patching & Run commands

- AWS OpsWorks → Chef, puppet
- Global DNS : Route 53
- CloudFront: Global Content Delivery Network (CDN)
 - ↳ Cache & replicate part of app. to edge location
- S3 transfer Acc.
- AWS Global Accelerator
- AWS Outposts : Hybrid cloud. "Jewerels"
- AWS Wavelength → 5G

- AWS → SQS → Standard Queue ~~long time~~ ~~long queue - send~~
↳ long queue - send
↳ dead-letter queue or error queue
- AWS SNS → Pub/Sub msg → may rec
↳ topic
- Kinesis → recursive big data stream
- MP → managed Apache MP → native MP
etc etc
not SNS, SQS
- CloudWatch → Metrics | dashboard)
 - ↳ alarms
 - ↳ logs
 - ↳ events | event
bridge
- CloudTrail → governance, compliance & audit
of AWS acc.

- CloudTrail Insights → detect unusual act.
- AWS Lambda → events retention is 90 days for add S3
- AWS X-ray
- CodeGuru → auto. code review & app. perf. recommendations.
- VPC → subnet
 - ↳ Internet gateway → helps VPC instances connect with internet
 - ↳ Nat gateway → A instance → allow your instances in your private subnet, to access internet while private.

↳ New ACL (\rightarrow firewalls)

↳ security groups

↳ Flow log (\rightarrow logs) \rightarrow monitoring

↳ S-SOA & DDoS

↳ Transit gateway \rightarrow 1000s of VPC 4on-prem.

• AWS Shield \rightarrow DDoS.

• AWS WAF \rightarrow firewall

• AWS KMS \rightarrow Key Management services

↳ Cloud HSM

- ACM → AWS Certificate Manager
(SS2 | TLS)
- Secrets Manager rotates
- Artifact → compliance report / document
- Guard Duty → find malicious behaviour in
AWS Lambda, DNS & Cloud trail
- Inspector → for EC2, install agent &
find vulnerabilities
- Config
- Macie → find sensitive data (PII data)
in S3

- Cloud tail → track API calls made by users within account

- AWS security hub → gather security findings from multiple AWS Acc.

- Detective → find root cause of sec. issue or suspicious activity.

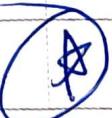
◦ Abuse

- Rekognition → text, obj, pp, ing

- Transcribe → speech to text

- Polly → + to -

- Translate



AW

① Len

→ AI services

- connect → virtual contact centre.
- comprehend → NLP
- SageMaker → ML models (marks ~~not~~)
- forecast
- Kendra → doc. search service
- Personalize → recommendation
 - ↳ Amazon (buy this as well as)
- Organisation
- Cloud foundry → micro

See

- AWS STS (security token service)

↳ for small time login

- Cognito → mobile app