Faqs

① Databases:

① AMI v/s RDS
   (DB admin and manage)

② RDS on-premise?
   (Outposts & VMware)

③ Create?
   Console, CLI, RDSAPI

④ How many instances
                    dB? sd

   ④O :
      ⤋
   Alicante   SQLs
                          ⤋
   Baaki   100
                          Ora
   oracle "BYOL"   ⤋

⑤ Maintainence
      ⤋
Bomin default
Multi-AZ to reduce impact

⑥ Enhanced Monitoring

⑦ Deprecated
   Minor (8months)   Major (6months
                             notice)

⑧ Charged?
   Storage & provisioned IOPS!!

                                    1

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⑨ Reserved is always same
              region.

⑧ scaling
      ⤋
   will become
   unavailable

⑩ implement
   partitioning

⑪ RDS ⇒ EBS volumes

⑫ Snapshots & Backups ⇒ S3

(snapshots)
Out → in ✓
in → out ✗

⑬ Multi-AZ   Read-Replicas
   synchronous   asynchronous

   Dynamo:
⑯ Streams
   (x-amz-target)
   (x-amz-date)

⑭ DynamoDB headers

⑮   2 types of partition
                    ⤷ Partition key →
                       internal hash →

                → Partition & sort key

⑰ RD Spectrum
   Queries against S3

II) Network :

CloudFront:

static/dynamic
   ⤋   ↓
  S3   EC2

low-latency:
edge locations

Include CNAME

Route 53 : DNS name registration,
           Health-checking service

All DNS records are organized into ⇒ (Hosted Zones)

All domains in a Hosted zone have same suffix:

amazon.com   (H2)
   ↓   NoT
aws.amazon.com   www.amazon.com   amazon.ca

(Route 53 is not a website hosting service)
Alias ⇒ To route to Aws hosted resources

Aws Direct Connect

Connecting DC with VPC
requires BGP!!

can use the same virtual connection with VPC & other AWS Services (through multiple n/w interfaces)

IAM User:

Authentication: Entry/Exit into the service
Authorize: What Access you have

Cognito:

User Pool: You manually do the input fields

Identity Pools: Federation through multiple providers

Shield: Ddos Attack

Policy Maximum Size: 2048 bytes.

What are VPC Endpoints?

VPC Endpoints connect your VPC privately to other services in AWS without an Internet Gateway, Router, etc.

G/W endpoints connect VPC to S3 and DynamoDB
Interface type endpoints connect to PrivateLink Services.

20 reserved instances

EC2 general purpose ⇒ Nitro hypervisor

EBS as root ⇒ Shut down

1 instance ⇒ multi-volumes

Cloudwatch ⇒ 1 minute

Retention
Period
(35 days)

• Aws-specific DNS extension ⇒ Alias record //

(Multivalue Answer Routing))

Geoproximity ⇒ (Traffic Flow
                       Rules))

Identity
Based
policies

Resource
Based

(Read replicas work
  only when backup is
  Turned -ON)

Dynamodb ⇒ 3AZ
(incoming data transfer
  is not charged)

DAX accelerate and cache
responses

VPC routing in RedShift

ELB ⇒ only get DNS name

⇒ But we can also attach Elastic IP//

ALB ⇒ (Target Group)

WAF ⇒ ① CloudFront ✓
       ② ALB ✓
       ③ API Gateway

② ACL , Bucket
   ↓/   ↓
objects bucket

SSE - C
    - KMS
    - S3

SW ⇒ Virtual / Physical