AWS Limits

- AWS Service Information
- AWS Service Limit

Technologies	Units	Item Size	Timeout (s)	Write	Requests	Retention
API Gateways			30		Per region 10,000/s 5,000 concurrent	
Dynamo DB		400KB				
Kinesis	Shard			1MB/s 1000 Transaction/s		24hrs
Lambda			900			

Bandwidths

- VPC - No Limit
- Internet Gateway - No Limit
- VPC Peering - No Limit
- NAT Gateway - 45Gbps
- EC2
  - Within region - FULL of EC2
  - Other region, Internet or Direct Connect
    - 50% of FULL EC2 (32 vCPUs)
    - 5Gbps for other
  - With Intel 82599 VF interface
    - 10Gbps aggregate with multiple flow
    - 5Gbps per flow
  - With ENA
    - 10Gbps per flow in a placement group
    - 5Gbps per flow outside a placement group
    - Max 100Gbps aggregate with multiple flow
      - Within a VPC
      - Peered VPC in same region
      - S3 using VPC endpoint in same region
  - AWS P4d UltraClusters supercomputer
    - 400Gbps
- Virtual Private Gateway (VGW)
  - VPN - 1.25Gbps aggregate
  - DX - DX port speed
- Transit Gateway
  - 1.25Gbps per VPN tunnel
  - 50Gbps total VPN bandwidth

Direct Connect

- Direct Connect via Private VIF
  - Max 10 VPC/VGW
- Direct Connect via Transit VIF
  - Max 4 Transit VIF
  - Max 6 Transit GW per Transit VIF
  - Max 6 x 4 = 24 Transit gateways

EC2

- Up to 5Gbps outside VPC
- Up to 10Gbps/flow in placement group
- Up to 5Gbps/flow outside placement group
- Up to 100Gbps aggregate in placement group (Enhanced Networking)

NAT Gateway

- Must use EIP
- 5Gbps auto scale up to 100Gbps
- 55,000 simultaneous connections
- No Security Group

Route tables

- Max 100 propagated routes

S3

- Objects can be 5TB in size
- Durability = 99.999999999% (11 9s)
- Availability = 99.99%
- Max buckets (default) = 100
- Virtual URL:
  - http://bucket.s3.amazonaws.com
  - http://bucket.s3-aws-region.amazonaws.com

- Path URL:
  - http://s3-aws-region.amazonaws.com/bucket
  - <Path style URL will be deprecated for all new buckets from Sep 2020>
- Object Key names use UTF-8 encoding and must not be longer than 1024 bytes
- Charges
  - Storage
  - Requests
  - Data Transfer Pricing (only data out. data into AWS is free)
  - Transfer Acceleration
  - Management Functions
    - Monitoring metrics
    - Storage Class Analysis
    - S3 Inventory
  - Object Tagging

Transit Gateway

- 5000 attachments
- 50Gbps/attachment

VPC Peering

- Max 125 VPC Peering connections per VPC
- No bandwidth limit

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