

# 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
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## NAT Gateway

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

- 5000 attachments
  - 50Gbps/attachment
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## VPC Peering

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