

AWS Limits

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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 $6 \times 4 = 24$ Transit gateways
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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)
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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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Route tables

- Max 100 propagated routes
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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

Transit Gateway

- 5000 attachments
- 50Gbps/attachment

VPC Peering

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

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