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Lambda quotas

PDF (/pdfs/lambda/latest/dg/lambda-dg.pdf#gettingstarted-limits)   **RSS (lambda-updates.rss)**

> ⚠ **Important**
>
> New AWS accounts have reduced concurrency and memory quotas.
> AWS raises these quotas automatically based on your usage.

Compute and storage

Lambda sets quotas for the amount of compute and storage resources that you can use to run and store functions. Quotas for concurrent executions and storage apply per AWS Region. Elastic network interface (ENI) quotas apply per virtual private cloud (VPC), regardless of Region. The following quotas can be increased from their default values. For more information, see Requesting a quota increase (https://docs.aws.amazon.com/servicequotas/latest/userguide/request-quota-increase.html) in the *Service Quotas User Guide*.

Resource	Default quota	Can be incr ease d up to
Concurrent executions	1,000	Tens of

Resource	Default quota	Can be increased up to
		thousands
Storage for uploaded functions (.zip file archives) and layers. Each function version and layer version consumes storage. For best practices on managing your code storage, see Monitoring Lambda code storage [↗] (https://serverlessland.com/content/service/lambda/guides/aws-lambda-operator-guide/code-storage) in Serverless Land.	75 GB	Terabytes
Storage for functions defined as container images. These images are stored in Amazon ECR.	See Amazon ECR service quotas (https://docs.aws.amazon.com/AmazonECR/latest/userguide/service-quotas.html) .	
Elastic network interfaces per virtual private cloud (VPC) (./configuration-vpc.html) ⓘ **Note** This quota is shared with other services, such as Amazon Elastic File System (Amazon EFS). See Amazon VPC quotas	500	Thousands

Resource	Default quota	Can be incr ease d up to
(https://docs.aws.amazon.com/vpc/lates t/userguide/amazon-vpc-limits.html) .		

For details on concurrency and how Lambda scales your function concurrency in response to traffic, see Understanding Lambda function scaling (./lambda-concurrency.html) .

Function configuration, deployment, and execution

The following quotas apply to function configuration, deployment, and execution. Except as noted, they can't be changed.

> ⓘ **Note**
>
> The Lambda documentation, log messages, and console use the abbreviation MB (rather than MiB) to refer to 1,024 KB.

Resource	Quota
Function memory allocation (./configuration-memory.html)	128 MB to 10,240 MB, in 1-MB increments. **Note:** Lambda allocates CPU power in proportion to the amount of memory configured. You can increase or decrease the memory and CPU power allocated to your function using the **Memory (MB)** setting. At 1,769 MB, a function has the equivalent of one vCPU.
Function timeout	900 seconds (15 minutes)

Resource	Quota
Function environment variables (./configuration-envvars.html)	4 KB, for all environment variables associated with the function, in aggregate
Function resource-based policy (./access-control-resource-based.html)	20 KB
Function layers (./chapter-layers.html)	five layers
Function concurrency scaling limit (./scaling-behavior.html)	For each function, 1,000 execution environments every 10 seconds
Invocation payload (./lambda-invocation.html) (request and response)	6 MB each for request and response (synchronous) 20 MB for each streamed response (./configuration-response-streaming.html) (Synchronous. The payload size for streamed responses can be increased from default values. Contact AWS Support to inquire further.) 256 KB (asynchronous) 1 MB for the total combined size of request line and header values
Bandwidth for streamed responses (./configuration-	Uncapped for the first 6 MB of your function's response For responses larger than 6 MB, 2MBps for the remainder of the response

Resource	Quota
response-streaming.html)	
Deployment package (.zip file archive) (./gettingstarted-concepts.html#gettingstarted-concepts-dp) size	50 MB (zipped, for direct upload) 250 MB (unzipped) This quota applies to all the files you upload, including layers and custom runtimes. 3 MB (console editor)
Container image settings size	16 KB
Container image (./images-create.html) code package size	10 GB (maximum uncompressed image size, including all layers)
Test events (console editor)	10
/tmp directory storage	Between 512 MB and 10,240 MB, in 1-MB increments
File descriptors	1,024
Execution processes/threads	1,024

Lambda API requests

The following quotas are associated with Lambda API requests.

Resource	Quota
Invocation requests per function per	Each instance of your execution environment can serve up to 10 requests per second. In other words, the total invocation limit is 10 times your concurrency limit. See

Resource	Quota
Region (synchronous)	Understanding Lambda function scaling (./lambda-concurrency.html) .
Invocation requests per function per Region (asynchronous)	Each instance of your execution environment can serve an unlimited number of requests. In other words, the total invocation limit is based only on concurrency available to your function. See Understanding Lambda function scaling (./lambda-concurrency.html) .
Invocation requests per function version or alias (requests per second)	10 x allocated provisioned concurrency (./configuration-concurrency.html) ⓘ **Note** This quota applies only to functions that use provisioned concurrency.
GetFunction (https://docs.aws.amazon.com/lambda/latest/api/API_GetFunction.html) API requests	100 requests per second. Cannot be increased.
GetPolicy (https://docs.aws.amazon.com/lambda/latest/api/API_GetPolicy.html) API requests	15 requests per second. Cannot be increased.
Remainder of the control plane API requests (excludes invocation, GetFunction, and GetPolicy requests)	15 requests per second across all APIs (not 15 requests per second per API). Cannot be increased.

Other services

Quotas for other services, such as AWS Identity and Access Management (IAM), Amazon CloudFront (Lambda@Edge), and Amazon Virtual Private Cloud (Amazon VPC), can impact your Lambda functions. For more information, see AWS service quotas (https://docs.aws.amazon.com/general/latest/gr/aws_service_limits.html) in the *Amazon Web Services General Reference*, and Invoking Lambda with events from other AWS services (./lambda-services.html) .

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