



**Content Delivery Network
API documentation**

CloudVPS CDN API

The CloudVPS CDN API is an OpenStack compatible JSON REST API. The Authentication is done by providing the X-Auth-Token header with a valid token, obtained from our OpenStack identity service (located at <https://identity.stack.cloudvps.com/>). Openstack Documentation can be found on the docs.openstack.org website. All communication should be in JSON format with Content-Type: application/json.

Required headers	X-Auth-Token	with valid authentication token (<code>\$keystone_token</code>)
	Accept	application/json
	Content-Type	application/json (for POST bodies)
BaseURL	https://interface.cloudvps.com/v1.0/cdn	
Response codes	All response codes from the API are HTTP codes, and follow the OpenStack API and HTTP 1.1 standard (rfc2616). The standard response code is a 200 OK or indicated otherwise.	
Examples	Examples in this document are based on the linux command-line and the cURL binary.	
Variables	Throughout the documentation and in command-line examples, these variables are used:	
	<code>\$keystone_token</code>	this variable should be replaced with a valid Token aquired from our identity service.
	<code>\$supername</code>	this variable should be replaced with the supername that applies for the query.

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Management of CDN Supernames

List the CDN Supernames

Get all the Supernames in your account.

Method	GET	
URL	https://interface.cloudvps.com/v1.0/cdn	
Authorised roles	xlis-customer, cdn-administrator	
Request Headers	X-Auth-Token	\$keystone_token
	Accept	application/json
Request cmd-line example	<pre>curl -X GET -H "X-Auth-Token: \$keystone_token" \ -H "Accept: application/json" \ https://interface.cloudvps.com/v1.0/cdn</pre>	
Response An array of objects, each containing the information for one supertype / origin combination	<pre>[{ "adult_content":"0", "origin":"cdn.abc123abc123abc123abc123abc123abc.objectstore.eu", "protocol":"http", "supertype":"cdn-01.mydomain.com", "cname":"_the-cname-for-this-supertype_", "request_date":"2013-11-13 12:29:52", "active_date":"2013-11-13 17:01:37", "delete_date":null, "source":"objectstore", "source_identifier":"abc123abc123abc123abc123abc123abc" }]</pre>	

Delete a CDN Supertype

Sends a delete request for the given supertype

Method	DELETE	
URL	https://interface.cloudvps.com/v1.0/cdn/\$supertype	
Authorised roles	xlis-customer, cdn-administrator	
Request Headers	X-Auth-Token	\$keystone_token
	Accept	application/json
Request cmd-line example	<pre>curl -X DELETE -H "X-Auth-Token: \$keystone_token" \ -H "Accept: application/json" \ https://interface.cloudvps.com/v1.0/cdn/\$supertype</pre>	

Usage and Real Time Stats

Get usage

Get the usage for all the supernames or the one given in the URL. The usage is collected at the end of a day, over that day.

Method	GET		
URL	https://interface.cloudvps.com/v1.0/cdn/usage		
Path (optional)	/\$supername		
Authorised roles	xlis-customer, cdn-administrator, cdn-usage		
Request Headers	X-Auth-Token	\$keystone_token	
	Accept	application/json	
QueryString (optional)	period_start	unix timestamp	defaults to first day of the month
	period_end	unix timestamp	defaults to 'now'
	interval	[hourly daily monthly]	defaults to daily
	combine	[0 1]	1 = combine usage results
Explanation	For every supername in the response there is an array of timestamps. Per timestamp there is a recordset for the usage over the requested interval. If the interval is daily, there is a timestamp for every day (starting at 00:00 hours), The monthly interval will only return one recordset (per supername) for the requested month. If the URL is expanded with a supername, no supername index is returned.		
Recordset for one entry	<pre>{ "supername": "\$supername", "timestamp": "1386802800", "volume": "0.216332500", "requests": "2006.5000", "averageThroughput": "0.480738750", "peakThroughput": "0.922992500", "mbps95": "0.000000000", "averageRequestsPerSecond": "0.557361250", "peakRequestsPerSecond": "1.070000000", "originVolume": "0.000000000", "averageOriginThroughput": "0.000000000", "peakOriginThroughput": "0.000000000", "cacheEfficiency": "24.970000000" }</pre>		
Request (cmd-line) Get usage for all supernames	<pre>curl -X GET -H "X-Auth-Token: \$keystone_token" \ -H "Accept: application/json" \ https://interface.cloudvps.com/v1.0/cdn/usage?period_start=1385852400</pre>		
Response	<pre>{ "_supername-001_" : { "1385852400" : 0, "1385938800" : { __recordset__ }, ... }, "_supername-002_" : { "1385852400" : 0, "1385938800" : 0, ... } }</pre>		

Get Real Time Stats for a supename

Real time stats are collected with a 5 minute interval. Due to restrictions in the collector backend only one request per supename per 5 minutes is allowed.

Requests within that interval will get a 429 Too Many Requests response with a Retry-After header (value in seconds) indicating how many seconds to wait before the next request will be accepted.

Returned Timestamps are in UTC.

Method	GET	
URL	https://interface.cloudvps.com/v1.0/cdn/rtm/ \$supename	
Authorised roles	xlis-customer, cdn-administrator, cdn-usage	
Request Headers	X-Auth-Token	\$keystone_token
	Accept	application/json
Request cmd-line example	curl -X GET -H "X-Auth-Token: \$keystone_token " \ -H "Accept: application/json" \ https://interface.cloudvps.com/v1.0/cdn/rtm/ \$supename	
Explanation	The resultset is always indexed as there are two timestamps, one in the recordset for the time of the measurement, and one in the root of thre resultset for the time of the request. timestamps are returned in UTC.	
Response All the realtime data associated with the supename.	<pre>{ "\$supename" : { "timestamp":1389088869, "mbps":0, "requestsPerSecond":0, "missMbps":0, "missPerSecond":0, "status404PerSec":0, "status503PerSec":0, "status504PerSec":0, "status5xxPerSec":0, "ptPerSec":0, "hitRatePercentage":0, "authPercentage":0, "signedPercentage":0 }, "timestamp":1389088872 }</pre>	

Submit an Invalidation request

Invalidations are near realtime, please realise your request could be in a queue.

Method	POST		
URL	https://interface.cloudvps.com/v1.0/cdn/invalidate/\$supername		
Authorised roles	xlis-customer, cdn-administrator, cdn-invalidator		
Request Headers	X-Auth-Token	\$keystone_token	
	Accept	application/json	
	Content-Type	application/json	
POST Body (required)	paths	array of strings	array of paths to invalidate up to 200 non wildcard paths or 1 wildcard path
	ignoreCase	[0 1]	
	force	[0 1]	0 = use If-Modified-Since expiry 1 = delete files from cache
Explanation wildcard paths	A path can be specified as either a complete path or as a more general wildcard specification. Examples of wildcards are the invalidation of all the content in a certain subdirectory, or of all resources with a common extension. A path must begin with the directory separator '/'. Only one wildcard entry is allowed in a request. The meta-language is a shell-glob like regular expression. e.g. /images/*.jpg will invalidate all jpeg images in /images and below.		
	*	Zero or more characters	
	+	One or More, non-directory separator characters	
	.	Matches the '.' (period) character only	
	\	Matches the directory separator	
	/	The directory separator character	
	{n,m}	Matches between 'n' and 'm' characters, where "n" and "m" are int	
	[a,x-y]	Matches any single character in the set provided. Comma (',') characters are used to separate individual characters in the set; hyphens ('-') are used to specify ranges (from the ASCII character set).	
Example Post Body for non wildcard paths	<pre>{ "paths": ["\photo-1.jpg", "\photo-10.jpg"], "force":0, "ignoreCase":1 }</pre>		
Example Post Body for a path with wildcards	<pre>{ "paths": ["\photos/*.jpg"], "force":0, "ignoreCase":1 }</pre>		
Request cmd-line example	<pre>curl -X POST -H "X-Auth-Token: \$keystone_token" \ -H "Accept: application/json" \ -H "Content-Type: application/json" \ -d '{"paths":["\photo-1.jpg","\photo-10.jpg","\photo-2.jpg","\photo-3.jpg"],"force":0,"ignoreCase":1}' \ https://interface.cloudvps.com/v1.0/cdn/invalidate/\$supername</pre>		
Response code	202 Accepted		