Manage host cache settings

REST API reference

NetApp
September 12, 2025

This PDF was generated from https://docs.netapp.com/us-en/ontap-restapi-9131/name-services_cache_host_settings_endpoint_overview.html on September 12, 2025. Always check docs.netapp.com for the latest.

Table of Contents

Manage host cache settings . . . 1
- Name-services cache host settings endpoint overview . . . 1
  - Overview . . . 1
  - Examples . . . 1
- Retrieve host cache settings . . . 3
  - Related ONTAP commands . . . 4
  - Learn more . . . 4
  - Parameters . . . 4
  - Response . . . 5
  - Error . . . 6
  - Definitions . . . 7
- Retrieve a host cache setting for an SVM . . . 9
  - Related ONTAP commands . . . 9
  - Learn more . . . 9
  - Parameters . . . 9
  - Response . . . 11
  - Error . . . 12
  - Definitions . . . 13
- Update a host cache setting . . . 14
  - Important notes . . . 15
  - Related ONTAP commands . . . 15
  - Learn more . . . 15
  - Parameters . . . 15
  - Request Body . . . 15
  - Response . . . 16
  - Error . . . 16
  - Definitions . . . 16

Manage host cache settings

Name-services cache host settings endpoint overview

Overview

This API is used to retrieve and manage hosts cache settings.

Examples

Retrieving hosts cache settings

The following examples shows how to use the cache host settings GET endpoint to retrieve host cache settings.

```
# The API:
GET /api/name-services/cache/host/settings

# The call:
curl -X GET "https://<mgmt-ip>/api/name-
services/cache/host/settings?fields=*" -H "accept: application/hal+json"

# The response:
{
"records": [
  {
    "svm": {
      "uuid": "8a1a8730-2036-11ec-8457-005056bbcfdb",
      "name": "vs43"
    },
    "enabled": true,
    "negative_cache_enabled": true,
    "ttl": "P1D",
    "negative_ttl": "PT1M",
    "dns_ttl_enabled": true
  },
  {
    "svm": {
      "uuid": "951e8676-2035-11ec-bfe2-005056bb6bef",
      "name": "spragyaclus-2"
    },
    "enabled": true,
    "negative_cache_enabled": true,
    "ttl": "P1D",
```

```
    "negative_ttl": "PT1M",
    "dns_ttl_enabled": true
  },
  {
    "svm": {
      "uuid": "dc458b2f-2035-11ec-bfe2-005056bb6bef",
      "name": "vs34"
    },
    "enabled": true,
    "negative_cache_enabled": true,
    "ttl": "P1D",
    "negative_ttl": "PT1M",
    "dns_ttl_enabled": true
  }
],
"num_records": 3
}
```


Retrieving host cache settings for a given SVM

The following examples shows how to use the cache hosts settings GET endpoint to retrieve hosts cache settings for a specific SVM.

```
# The API:
GET /api/name-services/cache/host/settings/{svm.uuid}

# The call:
curl -X GET "https://<mgmt-ip>/api/name-
services/cache/host/settings/dc458b2f-2035-11ec-bfe2-005056bb6bef" -H
"accept: application/hal+json"

# The response:
{
"svm": {
  "uuid": "dc458b2f-2035-11ec-bfe2-005056bb6bef",
  "name": "vs34"
},
"enabled": false,
"negative_cache_enabled": true,
"ttl": "P1D",
"negative_ttl": "PT1M",
"dns_ttl_enabled": true
}
```

Updating a hosts cache setting

The following example shows how to use the cache host settings PATCH endpoint to update a host cache setting.

```
# The API:
PATCH /api/name-services/cache/host/settings/{svm.uuid}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/name-
services/cache/host/settings/02c9e252-41be-11e9-81d5-00a0986138f9" -H
"accept: application/json" -H "Content-Type: application/json" -d "{
\"ttl\": \"PT2H\", \"negative_ttl\": \"PT2M\" }"
```

Retrieve host cache settings

GET `/name-services/cache/host/settings`

Introduced In: 9.11

Retrieves host cache settings.

Related ONTAP commands

- `vserver services name-service cache hosts settings show`

Learn more

- DOC /name-services/cache/host/settings

Parameters

Name	Type	In	Required	Description
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name
negative_cache_enabled	boolean	query	False	Filter by negative_cache_enabled
negative_ttl	string	query	False	Filter by negative_ttl
enabled	boolean	query	False	Filter by enabled
ttl	string	query	False	Filter by ttl
dns_ttl_enabled	boolean	query	False	Filter by dns_ttl_enabled
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1

Name	Type	In	Required	Description
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Default value: 1 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

```
Status: 200, Ok
```

Name	Type	Description
_links	_links	
num_records	integer	Number of records.
records	array[hosts_settings]	

Example response


```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "dns_ttl_enabled": 1,
      "negative_ttl": "PT5M",
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "ttl": "PT24H"
    }
  ]
}
```


Error

```
Status: Default, Error
```

Name	Type	Description
error	error	

Example error


```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```


Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
next	href	
self	href	

_links

Name	Type	Description
self	href	

svm

Name	Type	Description
_links	_links	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

hosts_settings

Hosts cache setting.

Name	Type	Description
_links	_links	
dns_ttl_enabled	boolean	Specifies whether TTL is based on the DNS or host settings. If enabled, TTL from DNS is used.
enabled	boolean	Indicates whether or not the cache is enabled.
negative_cache_enabled	boolean	Indicates whether or not the negative cache is enabled.
negative_ttl	string	Specifies negative Time to Live, in ISO 8601 format.

Name	Type	Description
svm	svm	
ttl	string	Specifies Time to Live (TTL), in ISO 8601 format.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Retrieve a host cache setting for an SVM

GET `/name-services/cache/host/settings/{svm.uuid}`

Introduced In: 9.11

Retrieves a host cache setting for a given SVM.

Related ONTAP commands

- `vserver services name-service cache hosts settings show`

Learn more

- DOC /name-services/cache/host/settings

Parameters

Name	Type	In	Required	Description
svm.uuid	string	path	True	SVM UUID.
svm.name	string	query	False	Filter by svm.name
negative_cache_enabled	boolean	query	False	Filter by negative_cache_enabled
negative_ttl	string	query	False	Filter by negative_ttl
enabled	boolean	query	False	Filter by enabled
ttl	string	query	False	Filter by ttl
dns_ttl_enabled	boolean	query	False	Filter by dns_ttl_enabled
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1

Name	Type	In	Required	Description
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Default value: 1 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

```
Status: 200, Ok
```

Name	Type	Description
_links	_links	
dns_ttl_enabled	boolean	Specifies whether TTL is based on the DNS or host settings. If enabled, TTL from DNS is used.
enabled	boolean	Indicates whether or not the cache is enabled.
negative_cache_enabled	boolean	Indicates whether or not the negative cache is enabled.
negative_ttl	string	Specifies negative Time to Live, in ISO 8601 format.
svm	svm	

Name	Type	Description
ttl	string	Specifies Time to Live (TTL), in ISO 8601 format.

Example response


```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "dns_ttl_enabled": 1,
  "negative_ttl": "PT5M",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "ttl": "PT24H"
}
```


Error

```
Status: Default, Error
```

Name	Type	Description
error	error	

Example error


```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```


Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

svm

Name	Type	Description
_links	_links	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Update a host cache setting

PATCH `/name-services/cache/host/settings/{svm.uuid}`

Introduced In: 9.11

Updates a host cache setting.

Important notes

- svm.uuid field cannot be empty.
- Returns success in case no values are provided for update.

Related ONTAP commands

- `vserver services name-service cache hosts settings modify`

Learn more

- DOC /name-services/cache/host/settings

Parameters

Name	Type	In	Required	Description
svm.uuid	string	path	True	SVM UUID.

Request Body

Name	Type	Description
dns_ttl_enabled	boolean	Specifies whether TTL is based on the DNS or host settings. If enabled, TTL from DNS is used.
enabled	boolean	Indicates whether or not the cache is enabled.
negative_cache_enabled	boolean	Indicates whether or not the negative cache is enabled.
negative_ttl	string	Specifies negative Time to Live, in ISO 8601 format.
svm	svm	
ttl	string	Specifies Time to Live (TTL), in ISO 8601 format.

Example request

```
{
  "dns_ttl_enabled": 1,
  "negative_ttl": "PT5M",
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "ttl": "PT24H"
}
```

Response

```
Status: 200, Ok
```

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
23724055	Internal error. Configuration for Vserver failed. Verify that the cluster is healthy, then try the command again. For further assistance, contact technical support.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

svm

Name	Type	Description
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

hosts_settings

Hosts cache setting.

Name	Type	Description
dns_ttl_enabled	boolean	Specifies whether TTL is based on the DNS or host settings. If enabled, TTL from DNS is used.
enabled	boolean	Indicates whether or not the cache is enabled.
negative_cache_enabled	boolean	Indicates whether or not the negative cache is enabled.
negative_ttl	string	Specifies negative Time to Live, in ISO 8601 format.
svm	svm	
ttl	string	Specifies Time to Live (TTL), in ISO 8601 format.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Copyright information

Copyright © 2025 NetApp, Inc. All Rights Reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means—graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system—without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP “AS IS” AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

LIMITED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (b)(3) of the Rights in Technical Data -Noncommercial Items at DFARS 252.227-7013 (FEB 2014) and FAR 52.227-19 (DEC 2007).

Data contained herein pertains to a commercial product and/or commercial service (as defined in FAR 2.101) and is proprietary to NetApp, Inc. All NetApp technical data and computer software provided under this Agreement is commercial in nature and developed solely at private expense. The U.S. Government has a non-exclusive, non-transferrable, nonsublicensable, worldwide, limited irrevocable license to use the Data only in connection with and in support of the U.S. Government contract under which the Data was delivered. Except as provided herein, the Data may not be used, disclosed, reproduced, modified, performed, or displayed without the prior written approval of NetApp, Inc. United States Government license rights for the Department of Defense are limited to those rights identified in DFARS clause 252.227-7015(b) (FEB 2014).

Trademark information

NETAPP, the NETAPP logo, and the marks listed at http://www.netapp.com/TM are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.