Manage host cache settings

REST API reference

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Manage host cache settings

Manage host cache settings

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": [
  {
    "uuid": "8a1a8730-2036-11ec-8457-005056bbcfdb",
    "svm": {
      "uuid": "8a1a8730-2036-11ec-8457-005056bbcfdb",
      "name": "vs43"
    },
    "enabled": true,
    "negative_cache_enabled": true,
    "ttl": "P1D",
    "negative_ttl": "PT1M",
    "dns_ttl_enabled": true
  },
  {
    "uuid": "951e8676-2035-11ec-bfe2-005056bb6bef",
    "enabled": true,
    "negative_cache_enabled": true,
    "ttl": "P1D",
    "negative_ttl": "PT1M",
    "dns_ttl_enabled": true
  },
  {
    "uuid": "dc458b2f-2035-11ec-bfe2-005056bb6bef",
    "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/{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:
{
"uuid": "dc458b2f-2035-11ec-bfe2-005056bb6bef",
"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/{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
uuid	string	query	False	Filter by uuid • Introduced in: 9.14
negative_ttl	string	query	False	Filter by negative_ttl
negative_cache_enabled	boolean	query	False	Filter by negative_cache_enabled
ttl	string	query	False	Filter by ttl
enabled	boolean	query	False	Filter by enabled
dns_ttl_enabled	boolean	query	False	Filter by dns_ttl_enabled
svm.name	string	query	False	Filter by svm.name
svm.uuid	string	query	False	Filter by svm.uuid
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.

Name	Type	In	Required	Description
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
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: 15 • 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",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    }
  ]
}
```


Error

```
Status: Default, Error
```

Name	Type	Description
error	returned_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

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

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.

Name	Type	Description
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	SVM, applies only to SVM-scoped objects.
ttl	string	Specifies Time to Live (TTL), in ISO 8601 format.
uuid	string	UUID for the host record.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_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/{uuid}`

Introduced In: 9.14

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
uuid	string	path	True	UUID for the host record.
negative_ttl	string	query	False	Filter by negative_ttl
negative_cache_enabled	boolean	query	False	Filter by negative_cache_enabled
ttl	string	query	False	Filter by ttl
enabled	boolean	query	False	Filter by enabled
dns_ttl_enabled	boolean	query	False	Filter by dns_ttl_enabled
svm.name	string	query	False	Filter by svm.name
svm.uuid	string	query	False	Filter by svm.uuid
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: 15 • 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	SVM, applies only to SVM-scoped objects.

Name	Type	Description
ttl	string	Specifies Time to Live (TTL), in ISO 8601 format.
uuid	string	UUID for the host record.

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",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
}
```


Error

```
Status: Default, Error
```

Name	Type	Description
error	returned_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

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_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/{uuid}`

Introduced In: 9.14

Updates a host cache setting.

Important notes

- 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
uuid	string	path	True	UUID for the host record.

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	SVM, applies only to SVM-scoped objects.

Name	Type	Description
ttl	string	Specifies Time to Live (TTL), in ISO 8601 format.
uuid	string	UUID for the host record.

Example request

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

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.

Also see the table of common errors in the Response body overview section of this documentation.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

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	SVM, applies only to SVM-scoped objects.
ttl	string	Specifies Time to Live (TTL), in ISO 8601 format.
uuid	string	UUID for the host record.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_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.

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