



# Manage host cache settings

ONTAP 9.12.1 REST API reference

NetApp  
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# 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-8457-005056bbcfd8",
        "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

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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  |
| ttl                    | string        | query | False    | Filter by ttl   |
| negative_ttl           | string        | query | False    | Filter by negative_ttl  |
| enabled                | boolean       | query | False    | Filter by enabled   |
| dns_ttl_enabled        | boolean       | query | False    | Filter by dns_ttl_enabled   |
| negative_cache_enabled | boolean       | query | False    | Filter by negative_cache_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.<br><ul style="list-style-type: none"><li>• Default value: 1</li></ul> |

| Name           | Type          | In    | Required | Description  |
|----------------|---------------|-------|----------|--|
| return_timeout | integer       | query | False    | <p>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.</p> <ul style="list-style-type: none"> <li>• Default value: 1</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul> |
| order_by       | array[string] | query | False    | Order results by specified fields and optional [asc  |

## Response

Status: 200, Ok

| Name        | Type                                    | Description        |
|-------------|---|--------------------|
| _links      | <a href="#">_links</a>                  |                    |
| num_records | integer                                 | Number of records. |
| records     | array[ <a href="#">hosts_settings</a> ] |                    |

## 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 | <a href="#">href</a> |             |
| self | <a href="#">href</a> |             |

\_links

| Name | Type                 | Description |
|------|----------------------|-------------|
| self | <a href="#">href</a> |             |

svm

| Name   | Type                   | Description                       |
|--------|------------------------|-----------------------------------|
| _links | <a href="#">_links</a> |                                   |
| name   | string                 | The name of the SVM.              |
| uuid   | string                 | The unique identifier of the SVM. |

hosts\_settings

Hosts cache setting.

| Name                   | Type                   | Description   |
|------------------------|------------------------|---|
| _links                 | <a href="#">_links</a> |   |
| 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  | <a href="#">svm</a> |   |
| 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[ <a href="#">error_arguments</a> ] | 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  |
| ttl                    | string        | query | False    | Filter by ttl   |
| negative_ttl           | string        | query | False    | Filter by negative_ttl  |
| enabled                | boolean       | query | False    | Filter by enabled   |
| dns_ttl_enabled        | boolean       | query | False    | Filter by dns_ttl_enabled   |
| negative_cache_enabled | boolean       | query | False    | Filter by negative_cache_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    | <p>The default is true for GET calls. When set to false, only the number of records is returned.</p> <ul style="list-style-type: none"> <li>• Default value: 1</li> </ul> |

| Name           | Type          | In    | Required | Description  |
|----------------|---------------|-------|----------|--|
| return_timeout | integer       | query | False    | <p>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.</p> <ul style="list-style-type: none"> <li>• Default value: 1</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul> |
| order_by       | array[string] | query | False    | Order results by specified fields and optional [asc  |

## Response

Status: 200, Ok

| Name                   | Type                   | Description   |
|------------------------|------------------------|---|
| _links                 | <a href="#">_links</a> |   |
| 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                    | <a href="#">svm</a>    |   |

| 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 | <a href="#">href</a> |             |

svm

| Name   | Type                   | Description                       |
|--------|------------------------|-----------------------------------|
| _links | <a href="#">_links</a> |                                   |
| 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[ <a href="#">error_arguments</a> ] | 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   |
|------------------------|------------------------|---|
| _links                 | <a href="#">_links</a> |   |
| 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                    | <a href="#">svm</a>    |   |
| ttl                    | string                 | Specifies Time to Live (TTL), in ISO 8601 format.   |

## Example request

```
{
  "_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"
}
```

## 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. |

| 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 | <a href="#">href</a> |             |

svm

| Name   | Type                   | Description                       |
|--------|------------------------|-----------------------------------|
| _links | <a href="#">_links</a> |                                   |
| name   | string                 | The name of the SVM.              |
| uuid   | string                 | The unique identifier of the SVM. |

hosts\_settings

Hosts cache setting.

| Name                   | Type                   | Description   |
|------------------------|------------------------|---|
| _links                 | <a href="#">_links</a> |   |
| 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                    | <a href="#">svm</a>    |   |
| 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[ <a href="#">error_arguments</a> ] | Message arguments                           |
| code      | string                                   | Error code                                  |
| message   | string                                   | Error message                               |
| target    | string                                   | The target parameter that caused the error. |

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