# Manage netgroup cache settings

## REST API reference

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# Manage netgroup cache settings

## Manage netgroup cache settings

### Overview

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

### Examples

#### Retrieving a netgroup cache setting

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The following example shows how to use the cache netgroup settings GET endpoint to retrieve netgroup cache settings.

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

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

# The response:
{
"records": [
  {
    "svm": {
      "uuid": "8a1a8730-2036-11ec-8457-005056bbcfdb",
      "name": "vs43"
    },
    "enabled": true,
    "negative_cache_enabled_byhost": true,
    "ttl_byhost": "P1D",
    "negative_ttl_byhost": "PT30M",
    "ttl_for_members": "PT30M"
  },
  {
    "svm": {
      "uuid": "dc458b2f-2035-11ec-bfe2-005056bb6bef",
      "name": "vs34"
    },
    "enabled": true,
    "negative_cache_enabled_byhost": true,
    "ttl_byhost": "PT2H",
    "negative_ttl_byhost": "PT30M",
    "ttl_for_members": "PT30M"
  }
],
"num_records": 2
}
```

#### Retrieving a netgroup cache setting for a given SVM

The following example shows how to use the cache netgroup settings GET endpoint to retrieve netgroup cache settings for a given SVM.

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

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

# The response:
{
"svm": {
  "uuid": "dc458b2f-2035-11ec-bfe2-005056bb6bef",
  "name": "vs34"
},
"enabled": true,
"negative_cache_enabled_byhost": true,
"ttl_byhost": "P1D",
"negative_ttl_byhost": "PT30M",
"ttl_for_members": "PT30M"
}
```

#### Updating a netgroup cache setting

The following example shows how to use the cache netgroup settings PATCH endpoint to update netgroup cache settings.

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

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

# Retrieve netgroup cache settings

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

**Introduced In:** 9.11

Retrieves netgroups cache settings.

## Related ONTAP commands

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

## Learn more

- DOC /name-services/cache/netgroup/settings

## Parameters

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| ttl_for_members | string | query | False | Filter by ttl_for_members |
| enabled | boolean | query | False | Filter by enabled |
| negative_ttl_byhost | string | query | False | Filter by negative_ttl_byhost |
| negative_cache_enabled_byhost | boolean | query | False | Filter by negative_cache_enabled_byhost |
| svm.name | string | query | False | Filter by svm.name |
| svm.uuid | string | query | False | Filter by svm.uuid |
| ttl_byhost | string | query | False | Filter by ttl_byhost |
| 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>• 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.<br>• Default value: 15<br>• Max value: 120<br>• 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[netgroups_settings] | |

**Example response**


```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "negative_ttl_byhost": "PT2M5S",
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "ttl_byhost": "PT24H",
      "ttl_for_members": "PT2M"
    }
  ]
}
```


## 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. |

netgroups_settings

Netgroups cache setting.

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| enabled | boolean | Indicates whether or not the cache is enabled. |
| negative_cache_enabled_byhost | boolean | Indicates whether or not the negative cache is enabled. |

| Name | Type | Description |
|---|---|---|
| negative_ttl_byhost | string | Specifies negative Time to Live by host, in ISO 8601 format. |
| svm | svm | SVM, applies only to SVM-scoped objects. |
| ttl_byhost | string | Specifies Time to Live by host, in ISO 8601 format. |
| ttl_for_members | string | Specifies Time to Live for netgroup members, in ISO 8601 format. |

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 netgroup cache setting for an SVM

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

**Introduced In:** 9.11

Retrieves a netgroup cache setting for a given SVM.

## Related ONTAP commands

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

## Learn more

- DOC /name-services/cache/netgroup/settings

## Parameters

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| svm.uuid | string | path | True | SVM UUID. |
| ttl_for_members | string | query | False | Filter by ttl_for_members |
| enabled | boolean | query | False | Filter by enabled |
| negative_ttl_byhost | string | query | False | Filter by negative_ttl_byhost |
| negative_cache_enabled_byhost | boolean | query | False | Filter by negative_cache_enabled_byhost |
| svm.name | string | query | False | Filter by svm.name |
| ttl_byhost | string | query | False | Filter by ttl_byhost |
| 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>• 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.<br>• Default value: 15<br>• Max value: 120<br>• 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 | |
| enabled | boolean | Indicates whether or not the cache is enabled. |
| negative_cache_enabled_byhost | boolean | Indicates whether or not the negative cache is enabled. |
| negative_ttl_byhost | string | Specifies negative Time to Live by host, in ISO 8601 format. |
| svm | svm | SVM, applies only to SVM-scoped objects. |
| ttl_byhost | string | Specifies Time to Live by host, in ISO 8601 format. |

| Name | Type | Description |
| --- | --- | --- |
| ttl_for_members | string | Specifies Time to Live for netgroup members, in ISO 8601 format. |

**Example response**


```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "negative_ttl_byhost": "PT2M5S",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "ttl_byhost": "PT24H",
  "ttl_for_members": "PT2M"
}
```


## 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 netgroup cache setting

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

**Introduced In:** 9.11

Updates a netgroup 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 netgroups settings modify`

## Learn more

- DOC /name-services/cache/netgroup/settings

## Parameters

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

## Request Body

| Name | Type | Description |
|---|---|---|
| enabled | boolean | Indicates whether or not the cache is enabled. |
| negative_cache_enabled_byhost | boolean | Indicates whether or not the negative cache is enabled. |
| negative_ttl_byhost | string | Specifies negative Time to Live by host, in ISO 8601 format. |
| svm | svm | SVM, applies only to SVM-scoped objects. |
| ttl_byhost | string | Specifies Time to Live by host, in ISO 8601 format. |
| ttl_for_members | string | Specifies Time to Live for netgroup members, in ISO 8601 format. |

**Example request**

```
{
  "negative_ttl_byhost": "PT2M5S",
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "ttl_byhost": "PT24H",
  "ttl_for_members": "PT2M"
}
```

## 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. |

netgroups_settings

Netgroups cache setting.

| Name | Type | Description |
|---|---|---|
| enabled | boolean | Indicates whether or not the cache is enabled. |
| negative_cache_enabled_byhost | boolean | Indicates whether or not the negative cache is enabled. |
| negative_ttl_byhost | string | Specifies negative Time to Live by host, in ISO 8601 format. |
| svm | svm | SVM, applies only to SVM-scoped objects. |
| ttl_byhost | string | Specifies Time to Live by host, in ISO 8601 format. |
| ttl_for_members | string | Specifies Time to Live for netgroup members, in ISO 8601 format. |

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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