Manage UNIX user configurations

REST API reference

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Manage UNIX user configurations

Name-services unix-users endpoint overview

Overview

You can use this API to display local UNIX user information and to control UNIX user configurations.

Retrieving UNIX user information

You can use the UNIX user GET endpoint to retrieve all of the local UNIX user configurations for data SVMs.

Examples

Retrieving all of the fields for UNIX user configurations for all SVMs

```
# The API:
/api/name-services/unix-users

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/unix-users?fields=*" -H
"accept: application/json"

# The response:
{
"records": [
  {
    "svm": {
      "uuid": "25b363a6-2971-11eb-88e1-0050568eefd4",
      "name": "vs1"
    },
    "name": "string",
    "id": 7,
    "primary_gid": 0,
    "full_name": "string"
  },
  {
    "svm": {
      "uuid": "3f479a01-2971-11eb-88e1-0050568eefd4",
      "name": "vs2"
    },
    "name": "nobody",
    "id": 65535,
    "primary_gid": 65535,
```

```
    "full_name": ""
  },
  {
    "svm": {
      "uuid": "3f479a01-2971-11eb-88e1-0050568eefd4",
      "name": "vs2"
    },
    "name": "pcuser",
    "id": 65534,
    "primary_gid": 65534,
    "full_name": ""
  },
  {
    "svm": {
      "uuid": "3f479a01-2971-11eb-88e1-0050568eefd4",
      "name": "vs2"
    },
    "name": "root",
    "id": 0,
    "primary_gid": 1,
    "full_name": ""
  }
],
"num_records": 4
}
```


Retrieving the UNIX user configuration of a specific SVM

```
# The API:
/api/name-services/unix-users

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/unix-
users?svm.uuid=25b363a6-2971-11eb-88e1-0050568eefd4&fields=*" -H "accept:
application/json"

# The response:
{
"records": [
  {
    "svm": {
      "uuid": "25b363a6-2971-11eb-88e1-0050568eefd4",
      "name": "vs1"
    },
    "name": "user1",
    "id": 1,
    "primary_gid": 1,
    "full_name": "Full User Name for user1"
  }
],
"num_records": 1
}
```

Retrieving a UNIX user configuration of a specific SVM and user

```
# The API:
/api/name-services/unix-users/{svm.uuid}/{name}

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/unix-users/25b363a6-2971-
11eb-88e1-0050568eefd4/user1" -H "accept: application/json"

# The response:
{
"svm": {
  "uuid": "25b363a6-2971-11eb-88e1-0050568eefd4",
  "name": "vs1"
},
"name": "user1",
"id": 1,
"primary_gid": 1,
"full_name": "Full User Name for user1"
}
```

Creating a UNIX user configuration

The UNIX user POST endpoint creates a UNIX user configuration for the specified SVM.

Examples

Creating a UNIX user configuration with all fields specified

```
# The API:
/api/name-services/unix-users

# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/unix-users" -H "accept:
application/json" -d "{ \"full_name\": \"Full user name\", \"id\": 7,
\"name\": \"user2\", \"primary_gid\": 10, \"skip_name_validation\": false,
\"svm\": { \"name\": \"vs1\", \"uuid\": \"25b363a6-2971-11eb-88e1-
0050568eefd4\" }}"
```

Creating a UNIX user configuration with only mandatory fields specified

```
# The API:
/api/name-services/unix-users

# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/unix-users" -H "accept:
application/json" -d "{ \"id\": 8, \"name\": \"user9\", \"primary_gid\":
10, \"svm\": { \"name\": \"vs1\", \"uuid\": \"25b363a6-2971-11eb-88e1-
0050568eefd4\" }}"
```

Updating a UNIX user configuration

The UNIX user PATCH endpoint updates the UNIX user configuration for the specified user and SVM. The following example shows a PATCH operation:

```
# The API:
/api/name-services/unix-users/{svm.uuid}/{name}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/name-services/unix-users/25b363a6-
2971-11eb-88e1-0050568eefd4/user1" -H "accept: application/json" -d "{
\"full_name\": \"Full name\", \"id\": 7, \"primary_gid\": 10 }"
```

Deleting a UNIX user configuration

The UNIX user DELETE endpoint deletes the specified UNIX user for the specified SVM. The following example shows a DELETE operation:

```
# The API:
/api/name-services/unix-users/{svm.uuid}/{name}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/name-services/unix-users/25b363a6-
2971-11eb-88e1-0050568eefd4/user1" -H "accept: application/json"
```

Retrieve all UNIX users for all SVMs

GET `/name-services/unix-users`

Introduced In: 9.9

Retrieves all of the UNIX users for all of the SVMs.

Important notes

- The current UNIX users count can be retrieved from the num_records field by calling the API with the parameter "return_records=false".

Related ONTAP commands

- `vserver services name-service unix-user show`

Parameters

Name	Type	In	Required	Description
id	integer	query	False	Filter by id
name	string	query	False	Filter by name
primary_gid	integer	query	False	Filter by primary_gid
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name
full_name	string	query	False	Filter by full_name
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 UNIX user records.
records	array[unix_user]	

Example response


```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "full_name": "Full User Name for user1",
      "name": "user1",
      "skip_name_validation": true,
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "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.

unix_user

Name	Type	Description
_links	_links	
full_name	string	User's full name.
id	integer	UNIX user ID of the specified user.
name	string	UNIX user name to be added to the local database.

Name	Type	Description
primary_gid	integer	Primary group ID to which the user belongs.
svm	svm	SVM, applies only to SVM-scoped objects.

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.

Create a local UNIX user configuration for an SVM

POST `/name-services/unix-users`

Introduced In: 9.9

Creates the local UNIX user configuration for an SVM.

Important notes

- The default limit for local UNIX users is 32768.

Parameters

Name	Type	In	Required	Description
return_records	boolean	query	False	The default is false. If set to true, the records are returned. • Default value:

Request Body

Name	Type	Description
full_name	string	User's full name.
id	integer	UNIX user ID of the specified user.
name	string	UNIX user name to be added to the local database.
primary_gid	integer	Primary group ID to which the user belongs.
skip_name_validation	boolean	Indicates whether or not the validation for the specified UNIX user name is disabled.
svm	svm	SVM, applies only to SVM-scoped objects.

Example request

```
{
  "full_name": "Full User Name for user1",
  "name": "user1",
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

Response

```
Status: 201, Created
```

Name	Type	Description
num_records	integer	Number of UNIX user records.
records	array[unix_user]	

Example response


```
{
  "num_records": 1,
  "records": [
    {
      "full_name": "Full User Name for user1",
      "name": "user1",
      "svm": {
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      }
    }
  ]
}
```


Headers

Name	Description	Type
Location	Useful for tracking the resource location	string

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
2621706	The specified SVM UUID is incorrect for the specified SVM name
2621516	This operation is only supported on a data SVM
23724066	The specified UNIX user name is too long. Maximum supported length is 64 characters.
3277051	The specified UNIX user name contains invalid characters. Valid characters are 0-9, A-Z, a-z, ".", "_" and "-".

Error Code	Description
23724128	The specified UNIX user full-name contains the invalid character ':'.
23724089	The specified UNIX user full-name is too long. Maximum supported length is 256 characters.
23724055	Internal error. Failed to create the UNIX user for the SVM. Verify that the cluster is healthy, then try the command again.
23724090	Configuring individual entries is not supported because file-only configuration is enabled.
3277025	Failed to create the UNIX user for the SVM because the system limit has been reached.

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.

unix_user

Name	Type	Description
full_name	string	User's full name.
id	integer	UNIX user ID of the specified user.
name	string	UNIX user name to be added to the local database.
primary_gid	integer	Primary group ID to which the user belongs.
skip_name_validation	boolean	Indicates whether or not the validation for the specified UNIX user name is disabled.
svm	svm	SVM, applies only to SVM-scoped objects.

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.

Delete a UNIX user configuration for an SVM

DELETE `/name-services/unix-users/{svm.uuid}/{name}`

Introduced In: 9.9

Deletes a UNIX user configuration for the specified SVM.

Related ONTAP commands

- `vserver services name-service unix-user delete`

Parameters

Name	Type	In	Required	Description
name	string	path	True	UNIX user name
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

Response

```
Status: 200, Ok
```

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

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 UNIX user information for a user and SVM

GET `/name-services/unix-users/{svm.uuid}/{name}`

Introduced In: 9.9

Retrieves UNIX user information for the specified user and SVM.

Related ONTAP commands

- `vserver services name-service unix-user show`

Parameters

Name	Type	In	Required	Description
name	string	path	True	UNIX user name
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.
fields	array[string]	query	False	Specify the fields to return.

Response

```
Status: 200, Ok
```

Name	Type	Description
_links	_links	
full_name	string	User's full name.
id	integer	UNIX user ID of the specified user.
name	string	UNIX user name to be added to the local database.
primary_gid	integer	Primary group ID to which the user belongs.
svm	svm	SVM, applies only to SVM-scoped objects.

Example response


```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "full_name": "Full User Name for user1",
  "name": "user1",
  "skip_name_validation": true,
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "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 UNIX user information for a user and SVM

PATCH `/name-services/unix-users/{svm.uuid}/{name}`

Introduced In: 9.9

Updates UNIX user information for the specified user and SVM.

Parameters

Name	Type	In	Required	Description
name	string	path	True	UNIX user name
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

Request Body

Name	Type	Description
full_name	string	User's full name.
id	integer	UNIX user ID of the specified user.
primary_gid	integer	Primary group ID to which the user belongs.

Example request

```
{
  "full_name": "Full User Name for user1",
  "skip_name_validation": true
}
```

Response

```
Status: 200, Ok
```

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
23724128	The specified Unix user full-name contains invalid character ':'
23724089	The specified UNIX user full-name is too long. Maximum supported length is 256 characters.
23724055	Internal error. Failed to modify the UNIX user for the SVM. Verify that the cluster is healthy, then try the command again.
23724090	Configuring individual entries is not supported because file-only configuration is enabled.

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.

unix_user

Name	Type	Description
full_name	string	User's full name.
id	integer	UNIX user ID of the specified user.
primary_gid	integer	Primary group ID to which the user belongs.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

Name	Type	Description
arguments	array[error_arguments]	Message arguments

Name	Type	Description
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

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