Manage local users

REST API reference

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Manage local users

Protocols CIFS local-users endpoint overview

Overview

The CIFS server can use local users for CIFS authentication. The local users can also be used for authorization when determining both share and file/directory access rights to data residing on the storage virtual machine (SVM). You can use this API to display local user information and to control local user configurations.

Retrieving local user information

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

Examples

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

```
# The API:
/api/protocols/cifs/local-users

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

# The response:
{
"records": [
  {
    "svm": {
      "uuid": "25b363a6-2971-11eb-88e1-0050568eefd4",
      "name": "vs1"
    },
    "sid": "S-1-5-21-256008430-3394229847-3930036330-500",
    "name": "CIFS_SERVER1\\Administrator",
    "full_name": "",
    "description": "Built-in administrator account",
    "account_disabled": false,
    "membership": [
      {
        "name": "BUILTIN\\Administrators",
        "sid": "S-1-5-32-544"
      }
    ]
```

```
  },
  {
    "svm": {
      "uuid": "25b363a6-2971-11eb-88e1-0050568eefd4",
      "name": "vs1"
    },
    "sid": "S-1-5-21-256008430-3394229847-3930036330-1001",
    "name": "CIFS_SERVER1\\user1",
    "full_name": "local user1",
    "description": "This is CIFS local user",
    "account_disabled": false
  },
  {
    "svm": {
      "uuid": "25b363a6-2971-11eb-88e1-0050568eefd4",
      "name": "vs1"
    },
    "sid": "S-1-5-21-256008430-3394229847-3930036330-1002",
    "name": "CIFS_SERVER1\\user2",
    "full_name": "local user2",
    "description": "This is CIFS local user",
    "account_disabled": false,
    "membership": [
      {
        "name": "CIFS_SERVER1\\grp1",
        "sid": "S-1-5-21-256008430-3394229847-3930036330-1001"
      },
      {
        "name": "CIFS_SERVER1\\grp2",
        "sid": "S-1-5-21-256008430-3394229847-3930036330-1002"
      }
    ]
  },
  {
    "svm": {
      "uuid": "3f479a01-2971-11eb-88e1-0050568eefd4",
      "name": "vs2"
    },
    "sid": "S-1-5-21-1625922807-3304708894-3529444428-500",
    "name": "CIFS_SERVER2\\Administrator",
    "full_name": "",
    "description": "Built-in administrator account",
    "account_disabled": false,
    "membership": [
      {
        "name": "BUILTIN\\Administrators",
```

```
        "sid": "S-1-5-32-544"
      }
    ]
  },
  {
    "svm": {
      "uuid": "3f479a01-2971-11eb-88e1-0050568eefd4",
      "name": "vs2"
    },
    "sid": "S-1-5-21-1625922807-3304708894-3529444428-1001",
    "name": "CIFS_SERVER2\\user1",
    "full_name": "local user1",
    "description": "This is CIFS local user",
    "account_disabled": false
  }
],
"num_records": 5
}
```

Retrieving the local user configuration of a specific SVM

```
# The API:
/api/protocols/cifs/local-users

# The call:
curl -X GET "https://<mgmt-ip>/api/protocols/cifs/local-
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"
    },
    "sid": "S-1-5-21-256008430-3394229847-3930036330-500",
    "name": "CIFS_SERVER1\\Administrator",
    "full_name": "",
    "description": "Built-in administrator account",
    "account_disabled": false,
```

```
    "membership": [
      {
        "name": "BUILTIN\\Administrators",
        "sid": "S-1-5-32-544"
      }
    ]
  },
  {
    "svm": {
      "uuid": "25b363a6-2971-11eb-88e1-0050568eefd4",
      "name": "vs1"
    },
    "sid": "S-1-5-21-256008430-3394229847-3930036330-1001",
    "name": "CIFS_SERVER1\\user1",
    "full_name": "local user1",
    "description": "This is CIFS local user",
    "account_disabled": false
  },
  {
    "svm": {
      "uuid": "25b363a6-2971-11eb-88e1-0050568eefd4",
      "name": "vs1"
    },
    "sid": "S-1-5-21-256008430-3394229847-3930036330-1002",
    "name": "CIFS_SERVER1\\user2",
    "full_name": "local user2",
    "description": "This is CIFS local user",
    "account_disabled": false,
    "membership": [
      {
        "name": "CIFS_SERVER1\\grp1",
        "sid": "S-1-5-21-256008430-3394229847-3930036330-1001"
      },
      {
        "name": "CIFS_SERVER1\\grp2",
        "sid": "S-1-5-21-256008430-3394229847-3930036330-1002"
      }
    ]
  },
],
"num_records": 3
}
```

Retrieving a local user configuration of a specific SVM and user

```
# The API:
/api/protocols/cifs/local-users/{svm.uuid}/{sid}

# The call:
curl -X GET "https://<mgmt-ip>/api/protocols/cifs/local-users/25b363a6-
2971-11eb-88e1-0050568eefd4/S-1-5-21-1625922807-3304708894-3529444428-
1001" -H "accept: application/json"

# The response:
{
"svm": {
  "uuid": "25b363a6-2971-11eb-88e1-0050568eefd4",
  "name": "vs1"
},
"sid": "S-1-5-21-256008430-3394229847-3930036330-1001",
"name": "CIFS_SERVER1\\user1",
"full_name": "local user1",
"description": "This is CIFS local user",
"account_disabled": false
}
```

Creating a local user configuration

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

Examples

Creating a local user configuration with all fields specified

```
# The API:
/api/protocols/cifs/local-users

# The call:
curl -X POST "https://<mgmt-ip>/api/protocols/cifs/local-users" -H
"accept: application/json" -H "Content-Type: application/json" -d "{
\"account_disabled\": false, \"description\": \"This is local user.\",
\"full_name\": \"user name\", \"name\": \"SMB_SERVER01\\\\user\",
\"password\": \"netapp1N\", \"svm\": { \"name\": \"vs1\", \"uuid\":
\"25b363a6-2971-11eb-88e1-0050568eefd4\" }}"
```

Creating a local user configuration with only mandatory fields specified

```
# The API:
/api/protocols/cifs/local-users

# The call:
curl -X POST "https://<mgmt-ip>/api/protocols/cifs/local-users" -H
"accept: application/json" -d "{ \"name\": \"user1\", \"password\":
\"netapp1N\", \"svm\": { \"uuid\": \"25b363a6-2971-11eb-88e1-
0050568eefd4\" }}"
```

Updating a local user configuration

The local user PATCH endpoint updates the local user configuration for the specified user and SVM.

Updating a local user name and password

```
# The API:
/api/protocols/cifs/local-users/{svm.uuid}/{sid}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/protocols/cifs/local-users/25b363a6-
2971-11eb-88e1-0050568eefd4/S-1-5-21-1625922807-3304708894-3529444428-
1001" -H "accept: application/json" -d "{ \"name\": \"new_user1\",
\"password\": \"netapp1Net\" }"
```

Deleting a local user configuration

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

```
# The API:
/api/protocols/cifs/local-users/{svm.uuid}/{sid}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/protocols/cifs/local-users/25b363a6-
2971-11eb-88e1-0050568eefd4/S-1-5-21-1625922807-3304708894-3529444428-
1001" -H "accept: application/json"
```

Retrieve local users for all SVMs

GET `/protocols/cifs/local-users`

Introduced In: 9.9

Retrieves local users for all of the SVMs. Local groups to which this user belongs to are also displayed.

Advanced properties

- `membership`

Related ONTAP commands

- `vserver cifs users-and-groups local-user show`
- `vserver cifs users-and-groups local-user show-membership`

Learn more

- DOC /protocols/cifs/local-users

Parameters

Name	Type	In	Required	Description
description	string	query	False	Filter by description
membership.name	string	query	False	Filter by membership.name

Name	Type	In	Required	Description
membership.sid	string	query	False	Filter by membership.sid • Introduced in: 9.10
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name
name	string	query	False	Filter by name
sid	string	query	False	Filter by sid • Introduced in: 9.10
full_name	string	query	False	Filter by full_name
account_disabled	boolean	query	False	Filter by account_disabled
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 local user records.
records	array[local_cifs_user]	

Example response


```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "description": "This is local user.",
      "full_name": "user name",
      "membership": [
        {
          "_links": {
            "self": {
              "href": "/api/resourcelink"
            }
          },
          "name": "SMB_SERVER01\\group",
          "sid": "S-1-5-21-256008430-3394229847-3930036330-1001"
        }
      ],
      "name": "SMB_SERVER01\\user",
      "sid": "S-1-5-21-256008430-3394229847-3930036330-1001",
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      }
    }
  ]
}
```

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	

membership

Name	Type	Description
_links	_links	
name	string	Local group name. The maximum supported length of a group name is 256 characters.
sid	string	The security ID of the local group which uniquely identifies the group. The group SID is automatically generated in POST and it is retrieved using the GET method.

svm

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

local_cifs_user

Name	Type	Description
_links	_links	
account_disabled	boolean	Indicates whether the user account is enabled or disabled.
description	string	Description for the local user.
full_name	string	User's full name.
membership	array[membership]	Specifies local groups of which this local user is a member.
name	string	Local user name. The maximum supported length of an user name is 20 characters.
sid	string	The security ID of the local user which uniquely identifies the user. The user SID is automatically generated in POST and it is retrieved using the GET method.
svm	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.

Create local user configuration for an SVM

POST `/protocols/cifs/local-users`

Introduced In: 9.9

Creates the local user configuration for an SVM.

Important notes

- The user name can contain up to 20 characters.
- The user name cannot be terminated by a period.
- The user name does not support any of the following characters: " / ? [ ] , : \| < > + = ; ? * @ or ASCII characters in the range 1-31.
- The password must be at least six characters in length and must not contain the user account name.
- The password must contain characters from three of the following four categories:
- English uppercase characters (A through Z)
- English lowercase characters (a through z)
- Base 10 digits (0 through 9)
- Special characters: ~ ! @ # 0 ^ & * _ - + = ` ? \| ( ) [ ] : ; " ' < > , . ? /

Required properties

- `svm.uuid` or `svm.name` - Existing SVM in which to create the local user.
- `name` - Name of the local user.
- `password` - Password for the local user.

Default property values

If not specified in POST, the following default property value is assigned:

- `account_disabled` - false

Related ONTAP commands

- `vserver cifs users-and-groups local-user create`

Learn more

- DOC /protocols/cifs/local-users

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
account_disabled	boolean	Indicates whether the user account is enabled or disabled.
description	string	Description for the local user.
full_name	string	User's full name.
name	string	Local user name. The maximum supported length of an user name is 20 characters.
password	string	Password for the local user.
svm	svm	

Example request

```
{
  "description": "This is local user.",
  "full_name": "user name",
  "name": "SMB_SERVER01\\user",
  "password": "string",
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

Response

```
Status: 201, Created
```

Name	Type	Description
num_records	integer	Number of local user records.
records	array[local_cifs_user]	

Example response


```
{
  "records": [
    {
      "description": "This is local user.",
      "full_name": "user name",
      "name": "SMB_SERVER01\\user",
      "password": "string",
      "svm": {
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      }
    }
  ]
}
```


Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
262278	Name and password are required fields.
655399	CIFS server must exist to create a local user.
655660	The operation is allowed only on data SVMs.
655661	The user name should not exceed 20 characters. Also full_name and description should not exceed 256 characters.
655665	The user name must not match the CIFS server name of the specified SVM.
655668	The specified user name contains illegal characters.
655675	The local domain name specified in user name doesn't exist.

Error Code	Description
655682	The user name cannot be blank.
655733	The password does not meet the password complexity requirements.
655736	The specified user name already exists.
2621706	The specified SVM UUID is incorrect for the specified SVM name.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

membership

Name	Type	Description
name	string	Local group name. The maximum supported length of a group name is 256 characters.

svm

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

local_cifs_user

Name	Type	Description
account_disabled	boolean	Indicates whether the user account is enabled or disabled.
description	string	Description for the local user.
full_name	string	User's full name.
name	string	Local user name. The maximum supported length of an user name is 20 characters.
password	string	Password for the local user.
svm	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.

Delete local user configuration for an SVM

DELETE `/protocols/cifs/local-users/{svm.uuid}/{sid}`

Introduced In: 9.10

Deletes a local user configuration for the specified SVM.

Related ONTAP commands

- `vserver cifs users-and-groups local-user delete`

Learn more

- DOC /protocols/cifs/local-users

Parameters

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

Response

```
Status: 200, Ok
```

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
655735	The local Administrator account cannot be deleted.

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

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 local user information for a user and SVM

GET `/protocols/cifs/local-users/{svm.uuid}/{sid}`

Introduced In: 9.10

Retrieves local user information for the specified user and SVM.

Advanced properties

- `membership`

Related ONTAP commands

- `vserver cifs users-and-groups local-user show`
- `vserver cifs users-and-groups local-user show-membership`

Learn more

- DOC /protocols/cifs/local-users

Parameters

Name	Type	In	Required	Description
sid	string	path	True	Local user SID
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	
account_disabled	boolean	Indicates whether the user account is enabled or disabled.
description	string	Description for the local user.
full_name	string	User's full name.
membership	array[membership]	Specifies local groups of which this local user is a member.
name	string	Local user name. The maximum supported length of an user name is 20 characters.
sid	string	The security ID of the local user which uniquely identifies the user. The user SID is automatically generated in POST and it is retrieved using the GET method.
svm	svm	

Example response


```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "description": "This is local user.",
  "full_name": "user name",
  "membership": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "SMB_SERVER01\\group",
      "sid": "S-1-5-21-256008430-3394229847-3930036330-1001"
    }
  ],
  "name": "SMB_SERVER01\\user",
  "sid": "S-1-5-21-256008430-3394229847-3930036330-1001",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```


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	

membership

Name	Type	Description
_links	_links	
name	string	Local group name. The maximum supported length of a group name is 256 characters.
sid	string	The security ID of the local group which uniquely identifies the group. The group SID is automatically generated in POST and it is retrieved using the GET method.

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 local user information for a user and SVM

PATCH `/protocols/cifs/local-users/{svm.uuid}/{sid}`

Introduced In: 9.10

Updates local user information for the specified user and SVM. The PATCH endpoint is also used to rename a user and to set the password for the user.

Related ONTAP commands

- `vserver cifs users-and-groups local-user modify`
- `vserver cifs users-and-groups local-user rename`
- `vserver cifs users-and-groups local-user set-password`

Learn more

- DOC /protocols/cifs/local-users

Parameters

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

Request Body

Name	Type	Description
account_disabled	boolean	Indicates whether the user account is enabled or disabled.

Name	Type	Description
description	string	Description for the local user.
full_name	string	User's full name.
name	string	Local user name. The maximum supported length of an user name is 20 characters.
password	string	Password for the local user.
svm	svm	

Example request

```
{
  "description": "This is local user.",
  "full_name": "user name",
  "name": "SMB_SERVER01\\user",
  "password": "string",
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

Response

```
Status: 200, Ok
```

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
655661	The user name should not exceed 20 characters. Also full_name and description should not exceed 256 characters.
655668	The specified user name contains illegal characters.

Error Code	Description
655675	The local domain name specified in the user name does not exist.
655682	The user name cannot be blank.
655732	Failed to rename a user. The error code returned details the failure along with the reason for the failure. Take corrective actions as per the specified reason.
655733	The specified password does not meet the password complexity requirements.
655737	To rename an existing user, the local domain specified in name must match the local domain of the user to be renamed.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

membership

Name	Type	Description
name	string	Local group name. The maximum supported length of a group name is 256 characters.

svm

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

local_cifs_user

Name	Type	Description
account_disabled	boolean	Indicates whether the user account is enabled or disabled.
description	string	Description for the local user.
full_name	string	User's full name.
name	string	Local user name. The maximum supported length of an user name is 20 characters.
password	string	Password for the local user.
svm	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.

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