



# Manage share-level ACL

## ONTAP 9.10.1 REST API Documentation

NetApp  
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# Manage share-level ACL

## Protocols CIFS shares svm.uuid share acls endpoint overview

### Overview

Access to files and folders can be secured over a network by configuring share access control lists (ACLs) on CIFS shares. Share-level ACLs can be configured by using either Windows users and groups or UNIX users and groups. A share-level ACL consists of a list of access control entries (ACEs). Each ACE contains a user or group name and a set of permissions that determines user or group access to the share, regardless of the security style of the volume or qtree containing the share.

When an SMB user tries to access a share, ONTAP checks the share-level ACL to determine whether access should be granted. A share-level ACL only restricts access to files in the share; it never grants more access than the file level ACLs.

### Examples

#### Creating a CIFS share ACL

To create a share ACL for a CIFS share, use the following API. Note the *return\_records=true* query parameter used to obtain the newly created entry in the response.

---

```
# The API:
POST /api/protocols/cifs/shares{svm.uuid}/{share}/acls

# The call:
curl -X POST "https://<mgmt-ip>/api/protocols/cifs/shares/000c5cd2-ebdf-
11e8-a96e-0050568ea3cb/sh1/acls?return_records=true" -H "accept:
application/json" -H "Content-Type: application/json" -d "{
\"permission\": \"no_access\", \"type\": \"windows\", \"user_or_group\":
\"root\"}"

# The response:
{
  "num_records": 1,
  "records": [
    {
      "svm": {
        "name": "vs1"
      },
      "user_or_group": "root",
      "type": "windows",
      "permission": "no_access"
    }
  ]
}
```

---

**Retrieving all CIFS shares ACLs for a specific CIFS share for a specific SVM in the cluster**

---

```
# The API:
GET /api/protocols/cifs/shares/{svm.uuid}/{share}/acls

# The call:
curl -X GET "https://<mgmt-ip>/api/protocols/cifs/shares/000c5cd2-ebdf-11e8-a96e-0050568ea3cb/sh1/acls?fields=*&return_records=true&return_timeout=15" -H "accept: application/json"

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "000c5cd2-ebdf-11e8-a96e-0050568ea3cb",
        "name": "vs1"
      },
      "share": "sh1",
      "user_or_group": "Everyone",
      "type": "windows",
      "permission": "full_control"
    },
    {
      "svm": {
        "uuid": "000c5cd2-ebdf-11e8-a96e-0050568ea3cb",
        "name": "vs1"
      },
      "share": "sh1",
      "user_or_group": "root",
      "type": "windows",
      "permission": "no_access"
    }
  ],
  "num_records": 2
}
```

---

**Retrieving a CIFS share ACLs for a user or a group of type Windows or type UNIX on a CIFS share for a specific SVM**

---

```

# The API:
GET
/api/protocols/cifs/shares/{svm.uuid}/{share}/acls/{user_or_group}/{type}

# The call:
curl -X GET "https://<mgmt-ip>/api/protocols/cifs/shares/000c5cd2-ebdf-11e8-a96e-0050568ea3cb/sh1/acls/everyone/windows" -H "accept: application/json"

# The response:
{
  "svm": {
    "uuid": "000c5cd2-ebdf-11e8-a96e-0050568ea3cb",
    "name": "vs1"
  },
  "share": "sh1",
  "user_or_group": "everyone",
  "type": "windows",
  "permission": "full_control"
}

```

### Updating a CIFS share ACLs of a user or group on a CIFS share for a specific SVM

The CIFS share ACL being modified is identified by the UUID of its SVM, the CIFS share name, user or group name and the type of the user or group.

```

# The API:
PATCH
/api/protocols/cifs/shares/{svm.uuid}/{share}/acls/{user_or_group}/{type}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/protocols/cifs/shares/000c5cd2-ebdf-11e8-a96e-0050568ea3cb/sh1/acls/everyone/windows" -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"permission\": \"no_access\"}"

```

### Removing a CIFS share ACLs of a user or group on a CIFS Share for a specific SVM

The CIFS share ACL being removed is identified by the UUID of its SVM, the CIFS share name, user or group name and the type of the user or group.

```
# The API:
DELETE
/api/protocols/cifs/shares/{svm.uuid}/{share}/acls/{user_or_group}/{type}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/protocols/cifs/shares/000c5cd2-ebdf-11e8-a96e-0050568ea3cb/sh1/acls/everyone/windows" -H "accept: application/json"
```

## Retrieve a share-level ACL on a CIFS share

GET /protocols/cifs/shares/{svm.uuid}/{share}/acls

**Introduced In:** 9.6

Retrieves the share-level ACL on a CIFS share.

### Related ONTAP commands

- `vserver cifs share access-control show`

### Learn more

- [DOC /protocols/cifs/shares/{svm.uuid}/{share}/acls](#)

### Parameters

| Name          | Type   | In    | Required | Description                                    |
|---------------|--------|-------|----------|--|
| share         | string | path  | True     | CIFS Share Name                                |
| type          | string | query | False    | Filter by type                                 |
| user_or_group | string | query | False    | Filter by user_or_group                        |
| permission    | string | query | False    | Filter by permission                           |
| svm.name      | string | query | False    | Filter by svm.name<br><br>• Introduced in: 9.9 |

| Name           | Type          | In    | Required | Description   |
|----------------|---------------|-------|----------|---|
| svm.uuid       | string        | path  | True     | UUID of the SVM to which this object belongs.   |
| 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. <ul style="list-style-type: none"> <li>• Default value: 1</li> </ul>  |
| 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. <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[cifs_share_acl]  |                   |

### Example response

```

{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "permission": "string",
      "share": "string",
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "type": "string",
      "user_or_group": "ENGDOMAIN\\ad_user"
    }
  ]
}

```

## 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. |

cifs\_share\_acl

The permissions that users and groups have on a CIFS share.

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

| Name          | Type                | Description  |
|---------------|---------------------|--|
| permission    | string              | Specifies the access rights that a user or group has on the defined CIFS Share. The following values are allowed: <ul style="list-style-type: none"> <li>• no_access - User does not have CIFS share access</li> <li>• read - User has only read access</li> <li>• change - User has change access</li> <li>• full_control - User has full_control access</li> </ul> |
| share         | string              | CIFS share name  |
| svm           | <a href="#">svm</a> |  |
| type          | string              | Specifies the type of the user or group to add to the access control list of a CIFS share. The following values are allowed: <ul style="list-style-type: none"> <li>• windows - Windows user or group</li> <li>• unix_user - UNIX user</li> <li>• unix_group - UNIX group</li> </ul>   |
| user_or_group | string              | Specifies the user or group name to add to the access control list of a CIFS share.  |

#### 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 |

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

## Create a share-level ACL on a CIFS share

POST /protocols/cifs/shares/{svm.uuid}/{share}/acls

**Introduced In:** 9.6

Creates a share-level ACL on a CIFS share.

### Required properties

- `svm.uuid` or `svm.name` - Existing SVM in which to create the share acl.
- `share` - Existing CIFS share in which to create the share acl.
- `user_or_group` - Existing user or group name for which the acl is added on the CIFS share.
- `permission` - Access rights that a user or group has on the defined CIFS share.

### Default property values

- `type` - *windows*

### Related ONTAP commands

- `vserver cifs share access-control create`

### Learn more

- [DOC /protocols/cifs/shares/{svm.uuid}/{share}/acls](#)

### Parameters

| Name  | Type   | In   | Required | Description     |
|-------|--------|------|----------|-----------------|
| share | string | path | True     | CIFS Share Name |

| Name           | Type    | In    | Required | Description  |
|----------------|---------|-------|----------|--|
| return_records | boolean | query | False    | The default is false. If set to true, the records are returned. <ul style="list-style-type: none"> <li>• Default value:</li> </ul> |
| svm.uuid       | string  | path  | True     | UUID of the SVM to which this object belongs.  |

## Request Body

| Name       | Type                   | Description  |
|------------|------------------------|--|
| _links     | <a href="#">_links</a> |  |
| permission | string                 | Specifies the access rights that a user or group has on the defined CIFS Share. The following values are allowed: <ul style="list-style-type: none"> <li>• no_access - User does not have CIFS share access</li> <li>• read - User has only read access</li> <li>• change - User has change access</li> <li>• full_control - User has full_control access</li> </ul> |
| share      | string                 | CIFS share name  |
| svm        | <a href="#">svm</a>    |  |
| type       | string                 | Specifies the type of the user or group to add to the access control list of a CIFS share. The following values are allowed: <ul style="list-style-type: none"> <li>• windows - Windows user or group</li> <li>• unix_user - UNIX user</li> <li>• unix_group - UNIX group</li> </ul>   |

| Name          | Type   | Description   |
|---------------|--------|---|
| user_or_group | string | Specifies the user or group name to add to the access control list of a CIFS share. |

### Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "permission": "string",
  "share": "string",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "type": "string",
  "user_or_group": "ENGDOMAIN\\ad_user"
}
```

### Response

Status: 201, Created

### Error

Status: Default

### ONTAP Error Response Codes

| Error Code | Description   |
|------------|---|
| 655470     | Failed to create share ACL because the share does not exist |

| Error Code | Description  |
|------------|--|
| 655446     | Failed to create share ACL because the specified Windows user/group does not exist |
| 4849678    | Failed to create share ACL because the specified UNIX user/group does not exist    |

| 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. |

cifs\_share\_acl

The permissions that users and groups have on a CIFS share.

| Name       | Type                   | Description   |
|------------|------------------------|---|
| _links     | <a href="#">_links</a> |   |
| permission | string                 | Specifies the access rights that a user or group has on the defined CIFS Share. The following values are allowed: <ul style="list-style-type: none"><li>• no_access - User does not have CIFS share access</li><li>• read - User has only read access</li><li>• change - User has change access</li><li>• full_control - User has full_control access</li></ul> |
| share      | string                 | CIFS share name   |
| svm        | <a href="#">svm</a>    |   |

| Name          | Type   | Description  |
|---------------|--------|--|
| type          | string | Specifies the type of the user or group to add to the access control list of a CIFS share. The following values are allowed: <ul style="list-style-type: none"> <li>• windows - Windows user or group</li> <li>• unix_user - UNIX user</li> <li>• unix_group - UNIX group</li> </ul> |
| user_or_group | string | Specifies the user or group name to add to the access control list of a CIFS share.  |

#### 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. |

## Delete a share-level ACL on a CIFS share

```
DELETE /protocols/cifs/shares/{svm.uuid}/{share}/acls/{user_or_group}/{type}
```

**Introduced In:** 9.6

Deletes a share-level ACL on a CIFS share.

## Related ONTAP commands

- `vserver cifs share access-control delete`

## Learn more

- [DOC /protocols/cifs/shares/{svm.uuid}/{share}/acls](#)

## Parameters

| Name          | Type   | In   | Required | Description                                   |
|---------------|--------|------|----------|---|
| share         | string | path | True     | Share name                                    |
| user_or_group | string | path | True     | User or group name                            |
| type          | string | path | True     | User or group type                            |
| 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 | <a href="#">error</a> |             |

## 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[ <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 share-level ACL on a CIFS share for a user or group

GET /protocols/cifs/shares/{svm.uuid}/{share}/acls/{user\_or\_group}/{type}

Introduced In: 9.6

Retrieves the share-level ACL on CIFS share for a specified user or group.

## Related ONTAP commands

- `vserver cifs share access-control show`

## Learn more

- [DOC /protocols/cifs/shares/{svm.uuid}/{share}/acls](#)

## Parameters

| Name          | Type          | In    | Required | Description                                   |
|---------------|---------------|-------|----------|---|
| share         | string        | path  | True     | Share name                                    |
| user_or_group | string        | path  | True     | User or group name                            |
| type          | string        | path  | True     | User or group type                            |
| 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 |
|------------------------|------------------------|-------------|
| <a href="#">_links</a> | <a href="#">_links</a> |             |

| Name          | Type   | Description   |
|---------------|--------|---|
| permission    | string | <p>Specifies the access rights that a user or group has on the defined CIFS Share. The following values are allowed:</p> <ul style="list-style-type: none"> <li>• no_access - User does not have CIFS share access</li> <li>• read - User has only read access</li> <li>• change - User has change access</li> <li>• full_control - User has full_control access</li> </ul> |
| share         | string | CIFS share name   |
| svm           | svm    |   |
| type          | string | <p>Specifies the type of the user or group to add to the access control list of a CIFS share. The following values are allowed:</p> <ul style="list-style-type: none"> <li>• windows - Windows user or group</li> <li>• unix_user - UNIX user</li> <li>• unix_group - UNIX group</li> </ul>   |
| user_or_group | string | <p>Specifies the user or group name to add to the access control list of a CIFS share.</p>  |

## Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "permission": "string",
  "share": "string",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "type": "string",
  "user_or_group": "ENGDOMAIN\\ad_user"
}
```

## Error

Status: Default, Error

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

## 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 share-level ACL on a CIFS share

```
PATCH /protocols/cifs/shares/{svm.uuid}/{share}/acls/{user_or_group}/{type}
```

**Introduced In:** 9.6

Updates a share-level ACL on a CIFS share.

## Related ONTAP commands

- `vserver cifs share access-control modify`

## Learn more

- [DOC /protocols/cifs/shares/{svm.uuid}/{share}/acls](#)

## Parameters

| Name          | Type   | In   | Required | Description                                   |
|---------------|--------|------|----------|---|
| share         | string | path | True     | Share name                                    |
| user_or_group | string | path | True     | User or group name                            |
| type          | string | path | True     | User or group type                            |
| svm.uuid      | string | path | True     | UUID of the SVM to which this object belongs. |

## Request Body

| Name                   | Type                   | Description   |
|------------------------|------------------------|---|
| <a href="#">_links</a> | <a href="#">_links</a> |   |
| permission             | string                 | Specifies the access rights that a user or group has on the defined CIFS Share. The following values are allowed: <ul style="list-style-type: none"><li>• <code>no_access</code> - User does not have CIFS share access</li><li>• <code>read</code> - User has only read access</li><li>• <code>change</code> - User has change access</li><li>• <code>full_control</code> - User has full_control access</li></ul> |
| share                  | string                 | CIFS share name   |
| svm                    | <a href="#">svm</a>    |   |

| Name          | Type   | Description  |
|---------------|--------|--|
| type          | string | Specifies the type of the user or group to add to the access control list of a CIFS share. The following values are allowed: <ul style="list-style-type: none"> <li>• windows - Windows user or group</li> <li>• unix_user - UNIX user</li> <li>• unix_group - UNIX group</li> </ul> |
| user_or_group | string | Specifies the user or group name to add to the access control list of a CIFS share.  |

### Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "permission": "string",
  "share": "string",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "type": "string",
  "user_or_group": "ENGDOMAIN\\ad_user"
}
```

### Response

Status: 200, Ok

## Error

Status: Default

### ONTAP Error Response Codes

| Error Code | Description   |
|------------|---|
| 655516     | The share ACL does not exist for given user and share |

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

### 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. |

cifs\_share\_acl

The permissions that users and groups have on a CIFS share.

| Name       | Type                   | Description   |
|------------|------------------------|---|
| _links     | <a href="#">_links</a> |   |
| permission | string                 | Specifies the access rights that a user or group has on the defined CIFS Share. The following values are allowed: <ul style="list-style-type: none"><li>• no_access - User does not have CIFS share access</li><li>• read - User has only read access</li><li>• change - User has change access</li><li>• full_control - User has full_control access</li></ul> |
| share      | string                 | CIFS share name   |
| svm        | <a href="#">svm</a>    |   |

| Name          | Type   | Description  |
|---------------|--------|--|
| type          | string | Specifies the type of the user or group to add to the access control list of a CIFS share. The following values are allowed: <ul style="list-style-type: none"> <li>• windows - Windows user or group</li> <li>• unix_user - UNIX user</li> <li>• unix_group - UNIX group</li> </ul> |
| user_or_group | string | Specifies the user or group name to add to the access control list of a CIFS share.  |

#### 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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