# Manage role privilege path

## REST API reference

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# Manage role privilege path

## Security roles owner.uuid name privileges path endpoint overview

### Overview

A role can comprise of multiple tuples and each tuple consists of the REST API path and its access level. These APIs can be used to retrieve and modify the access level or delete one of the constituent REST API paths within a role.

The role can be SVM-scoped or cluster-scoped.

Specify the owner UUID and the role name in the URI path. The owner UUID corresponds to the UUID of the SVM for which the role has been created and can be obtained from the response body of a GET request performed on one of the following APIs: /api/security/roles for all roles /api/security/roles/?scope=svm for SVM-scoped roles /api/security/roles/?owner.name=<svm-name></i> for roles in a specific SVM This API response contains the complete URI for each tuple of the role and can be used for GET, PATCH, or DELETE operations.</svm-name>

The access level for paths in pre-defined roles cannot be updated.

### Examples

#### Updating the access level for a path in the privilege tuple of an existing role

```
# The API:
PATCH "/api/security/roles/{owner.uuid}/{name}/privileges/{path}"

# The call:
curl -X PATCH "https://<mgmt-ip>/api/security/roles/aaef7c38-4bd3-11e9-
b238-0050568e2e25/svm_role1/privileges/%2Fapi%2Fprotocols" -d
'{"access":"all"}'
```

#### Retrieving the access level for a path in the privilege tuple of an existing role

```
# The API:
GET "/api/security/roles/{owner.uuid}/{name}/privileges/{path}"

# The call:
curl -X GET "https://<mgmt-ip>/api/security/roles/aaef7c38-4bd3-11e9-b238-
0050568e2e25/svm_role1/privileges/%2Fapi%2Fprotocols"

# The response:
{
"owner": {
  "uuid": "aaef7c38-4bd3-11e9-b238-0050568e2e25"
},
"name": "svm_role1",
"path": "/api/protocols",
"access": "all",
"_links": {
  "self": {
    "href": "/api/security/roles/aaef7c38-4bd3-11e9-b238-
0050568e2e25/svm_role1/privileges/%2Fapi%2Fprotocols"
  }
}
}
```

**Deleting a privilege tuple from an existing role**

```
# The API:
DELETE "/api/security/roles/{owner.uuid}/{name}/privileges/{path}"

# The call:
curl -X DELETE "https://<mgmt-ip>/api/security/roles/aaef7c38-4bd3-11e9-
b238-0050568e2e25/svm_role1/privileges/%2Fapi%2Fprotocols"
```

# Delete a privilege tuple from the role

DELETE `/security/roles/{owner.uuid}/{name}/privileges/{path}`

**Introduced In:** 9.6

Deletes a privilege tuple (of REST URI and its access level) from the role.

## Required parameters

- `owner.uuid` - UUID of the SVM which houses this role.
- `name` - Name of the role to be updated.

- `path` - Constituent REST API path to be deleted from this role.

## Related ONTAP commands

- `security login rest-role delete`

## Learn more

- DOC /security/roles/{owner.uuid}/{name}/privileges/{path}
- DOC /security/roles

## Parameters

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| owner.uuid | string | path | True | Role owner UUID |
| name | string | path | True | Role name |
| path | string | path | True | REST API path |

## Response

```
Status: 200, Ok
```

## Error

```
Status: Default
```

ONTAP Error Response Codes

| Error Code | Description |
|---|---|
| 5636172 | User accounts detected with this role assigned. Update or delete those accounts before deleting this role. |
| 5636173 | This feature requires an effective cluster version of 9.6 or later. |
| 13434890 | Vserver-ID failed for Vserver roles. |
| 13434893 | The SVM 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

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 the access level for a REST API path or command/command directory path for a role

GET `/security/roles/{owner.uuid}/{name}/privileges/{path}`

**Introduced In:** 9.6

Retrieves the privilege level for a REST API path for the specified role.

## Related ONTAP commands

- `security login rest-role show`

## Learn more

- DOC /security/roles/{owner.uuid}/{name}/privileges/{path}
- DOC /security/roles

## Parameters

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| owner.uuid | string | path | True | Role owner UUID |
| name | string | path | True | Role name |
| path | string | path | True | REST API path |
| fields | array[string] | query | False | Specify the fields to return. |

## Response

```
Status: 200, Ok
```

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| access | string | Access level for the REST endpoint. |
| path | string | REST URI/endpoint |

#### Example response


```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "access": "readonly",
  "path": "/api/storage/volumes"
}
```


## 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 | |

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 the access level for a REST API path or command/command directory path

PATCH `/security/roles/{owner.uuid}/{name}/privileges/{path}`

**Introduced In:** 9.6

Updates the privilege level for a REST API path.

## Required parameters

- `owner.uuid` - UUID of the SVM that houses this role.
- `name` - Name of the role to be updated.

- `path` - Constituent REST API path whose access level has to be updated.
- `access` - Access level for the path (one of "all", "readonly", or "none")

## Related ONTAP commands

- `security login rest-role modify`

## Learn more

- DOC /security/roles/{owner.uuid}/{name}/privileges/{path}
- DOC /security/roles

## Parameters

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| owner.uuid | string | path | True | Role owner UUID |
| name | string | path | True | Role name |
| path | string | path | True | REST API path |

## Request Body

| Name | Type | Description |
|---|---|---|
| access | string | Access level for the REST endpoint. |

### Example request

```
{
  "access": "readonly"
}
```

## Response

```
Status: 200, Ok
```

## Error

```
Status: Default, Error
```

## Definitions

### See Definitions

href

| Name | Type | Description |
|---|---|---|
| href | string | |

_links

role_privilege

A tuple containing the REST endpoint and the access level assigned to that endpoint.

| Name | Type | Description |
|---|---|---|
| access | string | Access level for the REST endpoint. |

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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