



# Manage role privilege path

## ONTAP 9.10.1 REST API Documentation

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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 REST API path can be a resource-qualified endpoint. Currently, the only supported resource-qualified endpoints are `/api/storage/volumes/{volume.uuid}/snapshots` and `/api/storage/volumes//snapshots`. `"` is a wildcard character denoting "all" volumes.

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: `<em>/api/security/roles</em>` for all roles  
`<em>/api/security/roles/?scope=svm</em>` for SVM-scoped roles  
`<em>/api/security/roles/?owner.name=<svm-name>&lt;i>&lt;/i>&lt;/em>`; 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></em>`



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"}'
```

#### Updating the access level for a resource-qualified endpoint 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%2Fstorage%2Fvolumes%2F742ef001-
24f0-4d5a-9ec1-2fdaadb282f4%2Fsnapshots" -d '{"access":"readonly"}'
```

### 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"
    }
  }
}
```

### Retrieving the access level for a resource-qualified endpoint 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%2Fstorage%2Fvolumes%2Fd0f3b91a-4ce7-4de4-afb9-7eda668659dd%2F%2Fsnapshots"

# The response:
{
  "owner": {
    "uuid": "aaef7c38-4bd3-11e9-b238-0050568e2e25"
  },
  "name": "svm_role1",
  "path": "/api/storage/volumes/d0f3b91a-4ce7-4de4-afb9-7eda668659dd/snapshots",
  "access": "all",
  "_links": {
    "self": {
      "href": "/api/security/roles/aaef7c38-4bd3-11e9-b238-0050568e2e25/svm_role1/privileges/%2Fapi%2Fstorage%2Fvolumes%2Fd0f3b91a-4ce7-4de4-afb9-7eda668659dd%2Fsnapshots"
    }
  }
}

```

### 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"

```

### Deleting a privilege tuple, containing a resource-qualified endpoint, 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%2Fstorage%2Fvolumes%2F742ef001-
24f0-4d5a-9ec1-2fdaadb282f4%2Fsnapshots"
```

## 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. The REST URI can be a resource-qualified endpoint. Currently, the only supported resource-qualified endpoints are `/api/storage/volumes/{volume.uuid}/snapshots` and `/api/storage/volumes//snapshots`. `"` is a wildcard character denoting "all" volumes.

### 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. Can be a resource-qualified endpoint (example: `/api/storage/volumes/43256a71-be02-474d-a2a9-9642e12a6a2c/snapshots`). Currently, resource-qualified endpoints are limited to the "snapshots" endpoint: `/api/storage/volumes/{volume.uuid}/snapshots` and `/api/storage/volumes//snapshots`. `"` is a wildcard character denoting "all" volumes.

### 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

Name	Type	In	Required	Description
path	string	path	True	REST API path

## Response

Status: 200, Ok

## Error

Status: Default

### ONTAP Error Response Codes

Error Code	Description
5636169	Specified URI path is invalid or not supported. Resource-qualified endpoints are not supported.
5636170	URI does not exist.
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.
5636184	Expanded REST roles for granular resource control feature is currently disabled.
5636185	The specified UUID was not found.
5636186	Expanded REST roles for granular resource control requires an effective cluster version of 9.10.1 or later.
13434890	Vserver-ID failed for Vserver roles.
13434893	The SVM does not exist.

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 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. The REST API path can be a resource-qualified endpoint. Currently, the only supported resource-qualified endpoints are `/api/storage/volumes/{volume.uuid}/snapshots` and `/api/storage/volumes//snapshots`. `"` is a wildcard character denoting "all" volumes.

## 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
<code>_links</code>	<code>_links</code>	
<code>access</code>	string	Access level for the REST endpoint.
<code>path</code>	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	<a href="#">href</a>	

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

PATCH /security/roles/{owner.uid}/{name}/privileges/{path}

**Introduced In:** 9.6

Updates the privilege level for a REST API path. The REST API path can be a resource-qualified endpoint. Currently, the only supported resource-qualified endpoints are `/api/storage/volumes/{volume.uid}/snapshots` and `/api/storage/volumes//snaphots`. `"` is a wildcard character denoting "all" volumes.

## 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 is to be updated. Can be a resource-qualified endpoint (example: `/api/storage/volumes/43256a71-be02-474d-a2a9-9642e12a6a2c/snapshots`). Currently, resource-qualified endpoints are limited to the "snapshots" endpoint: `/api/storage/volumes/{volume.uuid}/snapshots` and `/api/storage/volumes//snapshots`. "" is a wildcard character denoting "all" volumes.
- `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
<code>owner.uuid</code>	string	path	True	Role owner UUID
<code>name</code>	string	path	True	Role name
<code>path</code>	string	path	True	REST API path

## Request Body

Name	Type	Description
<code>_links</code>	<a href="#">_links</a>	
<code>access</code>	string	Access level for the REST endpoint.
<code>path</code>	string	REST URI/endpoint

## Example request

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

## Response

Status: 200, Ok

## 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	<a href="#">href</a>	

role\_privilege

A tuple containing the REST endpoint and the access level assigned to that endpoint. The REST endpoint can be a resource-qualified endpoint. At present, the only supported resource-qualified endpoints are `/api/storage/volumes/{volume.uuid}/snapshots` and `/api/storage/volumes//snapshots`. `"` is a wildcard character denoting "all" volumes.

Name	Type	Description
_links	<a href="#">_links</a>	
access	string	Access level for the REST endpoint.
path	string	REST URI/endpoint

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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