



Manage role privilege details

REST API reference

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Manage role privilege details

Security roles owner.uuid name privileges endpoint overview

Overview

This API is used to configure the role privileges (tuples of REST URI path and its access levels). It also retrieves all of the privilege tuples for a role and can add a tuple to an existing role. The REST URI 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: `/api/security/roles` for all the roles
`/api/security/roles/?scope=svm` for SVM-scoped roles
`/api/security/roles/?owner.name=<svm-name><i></i>` for roles in a specific SVM This API response contains the complete URI for each role and can be used after suffixing it with `_"privileges".</svm-name>_`



The pre-defined roles can be retrieved but cannot be updated.

Examples

Adding a privilege tuple for an existing custom role

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

# The call:
curl -X POST "https://<mgmt-ip>/api/security/roles/aaef7c38-4bd3-11e9-b238-0050568e2e25/svm_role1/privileges" -d
'{"access":"readonly","path":"/api/protocols"}'
```

Retrieving all the privilege tuples for a role

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

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

```
# The response:
{
  "records": [
    {
      "path": "/api/application",
      "access": "all",
      "_links": {
        "self": {
          "href": "/api/security/roles/aaef7c38-4bd3-11e9-b238-0050568e2e25/svm_role1/privileges/%2Fapi%2Fapplication"
        }
      }
    },
    {
      "path": "/api/protocols",
      "access": "readonly",
      "_links": {
        "self": {
          "href": "/api/security/roles/aaef7c38-4bd3-11e9-b238-0050568e2e25/svm_role1/privileges/%2Fapi%2Fprotocols"
        }
      }
    },
    {
      "path": "/api/storage/volumes/1385d680-74fc-4adb-a348-9a740e83702a/snapshots",
      "access": "all",
      "_links": {
        "self": {
          "href": "/api/security/roles/aaef7c38-4bd3-11e9-b238-0050568e2e25/svm_role1/privileges/%2Fapi%2Fstorage%2Fvolumes%2F1385d680-74fc-4adb-a348-9a740e83702a%2Fsnapshots"
        }
      }
    }
  ],
  "num_records": 3,
  "_links": {
    "self": {
      "href": "/api/security/roles/aaef7c38-4bd3-11e9-b238-0050568e2e25/svm_role1/privileges"
    }
  }
}
```

Retrieve privilege details of the specified role

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

Introduced In: 9.6

Retrieves privilege details of the specified role.

Related ONTAP commands

- `security login rest-role show`

Learn more

- [DOC /security/roles/{owner.uuid}/{name}/privileges](#)
- [DOC /security/roles](#)

Parameters

| Name | Type | In | Required | Description |
|----------------|---------------|-------|----------|--|
| owner.uuid | string | path | True | Role owner UUID |
| name | string | path | True | Role 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. <ul style="list-style-type: none">• Default value: 1 |

| Name | Type | In | Required | Description |
|----------------|---------------|-------|----------|--|
| return_timeout | integer | query | False | <p>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.</p> <ul style="list-style-type: none"> • 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 records |
| records | array[role_privilege] | |

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": [
    {
      "_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 |
|------|----------------------|-------------|
| next | href | |
| self | href | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

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 | _links | |
| 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[error_arguments] | Message arguments |

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

Add a privilege tuple to an existing role

POST /security/roles/{owner.uuid}/{name}/privileges

Introduced In: 9.6

Adds a privilege tuple (of REST URI and its access level) to an existing role.

Required parameters

- `owner.uuid` - UUID of the SVM that houses this role.
- `name` - Name of the role to be updated.
- `path` - REST URI path (example: `/api/storage/volumes`). 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` - Desired access level for the REST URI path (one of "all", "readonly" or "none").

Related ONTAP commands

- `security login rest-role create`

Learn more

- [DOC /security/roles/{owner.uuid}/{name}/privileges](#)
- [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 |
|----------------|---------|-------|----------|---|
| return_records | boolean | query | False | <p>The default is false. If set to true, the records are returned.</p> <ul style="list-style-type: none"> • Default value: |

Request Body

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

Example request

```
{
  "access": "readonly",
  "path": "/api/storage/volumes"
}
```

Response

Status: 201, Created

Error

Status: Default

ONTAP Error Response Codes

| Error Code | Description |
|------------|--|
| 5636129 | A role with given name has not been defined. |
| 5636143 | A Vserver admin cannot use the API with this access level. |
| 5636144 | The value specified for the access level is not valid. |
| 5636169 | A character in the URI is not valid. |

| Error Code | Description |
|------------|---|
| 5636170 | The URI does not exist. |
| 5636173 | This feature requires an effective cluster version of 9.6 or later. |
| 5636175 | Vserver admin cannot have access to given API. |
| 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. |
| 13434891 | UUID LookUp failed for Vserver roles. |
| 13434892 | Roles is a required field. |
| 13434893 | The SVM does not exist. |

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. 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 |
|--------|--------|-------------------------------------|
| 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[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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