Security

ONTAP automation

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Security

Accounts

List the accounts using the ONTAP REST API

You can retrieve a list of the accounts. You might do this to assess your security environment or before creating a new account.

HTTP method and endpoint

This REST API call uses the following method and endpoint.

HTTP method	Path
GET	/api/security/accounts

Processing type

Synchronous

Curl example

```
curl --request GET \
--location "https://$FQDN_IP/api/security/accounts" \
--include \
--header "Accept: */*" \
--header "Authorization: Basic $BASIC_AUTH"
```

JSON output example


```
{
  "records": [
    {
      "owner": {
        "uuid": "642573a8-9d14-11ee-9330-005056aed3de",
        "name": "vs0",
        "_links": {
          "self": {
            "href": "/api/svm/svms/642573a8-9d14-11ee-9330-
005056aed3de"
          }
        }
      },
      "name": "vsadmin",
      "_links": {
        "self": {
          "href": "/api/security/accounts/642573a8-9d14-11ee-9330-
005056aed3de/vsadmin"
        }
      }
    },
    {
      "owner": {
        "uuid": "fdb6fe29-9d13-11ee-9330-005056aed3de",
        "name": "sti214nscluster-1"
      },
      "name": "admin",
      "_links": {
        "self": {
          "href": "/api/security/accounts/fdb6fe29-9d13-11ee-9330-
005056aed3de/admin"
        }
      }
    },
    {
      "owner": {
        "uuid": "fdb6fe29-9d13-11ee-9330-005056aed3de",
        "name": "sti214nscluster-1"
      },
      "name": "autosupport",
      "_links": {
        "self": {
          "href": "/api/security/accounts/fdb6fe29-9d13-11ee-9330-
005056aed3de/autosupport"
```

```
        }
      }
    }
  ],
  "num_records": 3,
  "_links": {
    "self": {
      "href": "/api/security/accounts"
    }
  }
}
```

Certificates and keys

List the installed certificates using the ONTAP REST API

You can list the certificates installed in your ONTAP cluster. You might do this to see if a particular certificate is available or to get the ID of a specific certificate.

HTTP method and endpoint

This REST API call uses the following method and endpoint.

HTTP method	Path
GET	/api/security/certificates

Additional input parameters for curl examples

In addition to the parameters common with all REST API calls, the following parameters are also used in the curl example in this step.

Parameter	Type	Required	Description
max_records	Query	No	Specify the number of records you want returned.

Curl example: Return three certificates

```
curl --request GET \
--location "https://$FQDN_IP/api/security/certificates?max_records=3" \
--include \
--header "Accept: */*" \
--header "Authorization: Basic $BASIC_AUTH"
```

JSON output example


```
{
  "records": [
    {
      "uuid": "dad822c2-573c-11ee-a310-005056aecc29",
      "name": "vs0_17866DB5C933E2EA",
      "_links": {
        "self": {
          "href": "/api/security/certificates/dad822c2-573c-11ee-a310-
005056aecc29"
        }
      }
    },
    {
      "uuid": "7d8e5570-573c-11ee-a310-005056aecc29",
      "name": "BuypassClass3RootCA",
      "_links": {
        "self": {
          "href": "/api/security/certificates/7d8e5570-573c-11ee-a310-
005056aecc29"
        }
      }
    },
    {
      "uuid": "7dbb2191-573c-11ee-a310-005056aecc29",
      "name": "EntrustRootCertificationAuthority",
      "_links": {
        "self": {
          "href": "/api/security/certificates/7dbb2191-573c-11ee-a310-
005056aecc29"
        }
      }
    }
  ],
  "num_records": 3,
  "_links": {
    "self": {
      "href": "/api/security/certificates?max_records=3"
    },
    "next": {
      "href": "/api/security/certificates?start.svm_id=sti214nscluster-
1&start.uuid=7dbb2191-573c-11ee-a310-005056aecc29&max_records=3"
    }
  }
}
```

Install a certificate using the ONTAP REST API

You can install a signed X.509 certificate in your ONTAP cluster. You might do this as part of configuring an ONTAP feature or protocol that requires strong authentication.

Before you begin

You must have the certificate you want to install. You should also make sure any intermediate certificates are installed as needed.

Before using the JSON input examples included below, make sure to update the `public_certificate` value with the certificate for your environment.

Step 1: Install the certificate

You can issue an API call to install the certificate.

HTTP method and endpoint

This REST API call uses the following method and endpoint.

HTTP method	Path
POST	/api/security/certificates

Curl example: Install a root CA certificate at the cluster level

```
curl --request POST \
--location "https://$FQDN_IP/api/security/certificates" \
--include \
--header "Content-Type: application/json" \
--header "Accept: */*" \
--header "Authorization: Basic $BASIC_AUTH" \
--data @JSONinput
```

JSON input example


```
{
    "type": "server_ca",
    "public_certificate":
    "-----BEGIN CERTIFICATE-----
MIID0TCCArkCFGYdznvTVvaY1VZPNfy4yCCyPph6MA0GCSqGSIb3DQEBCwUAMIGk
MQswCQYDVQQGEwJVUzELMAkGA1UECAwCTkMxDDAKBgNVBAcMA1JUUDEWMBQGA1UE
CgwNT05UQVAgRXhhbXBsZTETMBEGA1UECwwKT05UQVAgOS4xNDEcMBoGA1UEAwwT
Ki5vbnRhcC1leGFtcGxlLmNvbTEvMC0GCSqGSIb3DQEJARYgZGF2aWQucGV0ZXJz
b25Ab250YXAtZXhhbXBsZS5jb20wHhcNMjMxMDA1MTUyOTE4WhcNMjQxMDA0MTUy
OTE4WjCBpDELMAkGA1UEBhMCVVMxCzAJBgNVBAgMAk5DMQwwCgYDVQQHDANSVFAx
FjAUBgNVBAoMDU9OVEFQIEV4YW1wbGUxEzARBgNVBAsMCk9OVEFQIDkuMTQxHDAa
BgNVBAMMEyoub250YXAtZXhhbXBsZS5jb20xLzAtBgkqhkiG9w0BCQEWIGRhdmlk
LnBldGVyc29uQG9udGFwLWV4YW1wbGUuY29tMIIBIjANBgkqhkiG9w0BAQEFAAOC
AQ8AMIIBCgKCAQEAxQgy8mhb1Jhkf0D/MBodpzgW0aSp2jGbWJ+Zv2G8BXkp1762
dPHRkv1hnx9JvwkK4Dba05GiCiD5t3gjH/jUQMSFb+VwDbVmubVFnXjkm/4Q7sea
tMtA/ZpQdZbQFZ5RKtdWz7dzzPYEl2x8Q1Jc8Kh7NxERNMtgupGWZZn7mfXKYr4O
N/+vgahIhDibS8YK5rf1w6bfmrik9E2D+PEab9DX/1DL5RX4tZ1H2OkyN2UxoBR6
Fq7l6n1Hi/5yR0Oi1xStN6sO7EPoGak+KSlK41q+EcIKRo0bP4mEQp8WMjJuiTkb
5MmeYoIpWEUgJK7S0M6Tp/3bTh2CST3AWxiNxQIDAQABMA0GCSqGSIb3DQEBCwUA
A4IBAQABfBqOuROmYxdfrj93OyIiRoDcoMzvo8cHGNUsuhnlBDnL2O3qhWEs97s0
mIy6zFMGnyNYa0t4i1cFsGDKP/JuljmYHjvv+2lHWnxHjTo7AOQCnXmQH5swoDbf
o1Vjqz8Oxz+PRJ+PA3dF5/8zqaAR6QreAN/iFR++6nUq1sbbM7w03tthBVMgo/h1
E9I2jVOZsqMFujm2CYfMs4XkZtrYmN6nZA8JcUpDjIWcAVbQYurMnna9r42oS3GB
WB/FE9n+P+FfJyHJ93KGcCXbH5RF2pi3wLlHilbvVuCjLRrhJ8U20I5mZoiXvABc
IpYuBcuKXLwAarhDEacXttVjC+Bq
-----END CERTIFICATE-----"
}
```


Step 2: Confirm the certificate has been installed

Perform the workflow List the installed certificates and confirm the certificate is available.

RBAC

Prepare to use RBAC using the ONTAP REST API

You can use the ONTAP RBAC capability in several different ways depending on your environment. A few common scenarios are presented as workflows in this section. In each case the focus is on a specific security and administrative goal.

Before creating any roles and assigning a role to an ONTAP user account, you should prepare by reviewing the major security requirements and options presented below. Also make sure to review the general workflow concepts at Prepare to use the workflows.

What ONTAP release are you using?

The ONTAP release determines what REST endpoints and RBAC features are available.

Identify the protected resources and scope

You need to identify the resources or commands to be protected and the scope (cluster or SVM).

What access should the user have?

After identifying the resources and scope, you need to determine the access level to be granted.

How will the users access ONTAP?

The user can access ONTAP through the REST API or CLI or both.

Is one of the built-in roles sufficient or is a custom role needed?

It is more convenient to use an existing built-in role but you can create a new custom role if needed.

What type of role is needed?

Based on the security requirements and the ONTAP access, you need to choose whether to create a REST or traditional role.

Create roles

Limit access to SVM volume operations using the ONTAP REST API

You can define a role to restrict storage volume administration within an SVM.

About this workflow

A traditional role is first created to initially allow access to all the major volume administration functions except cloning. The role is defined with the following characteristics:

- Able to perform all CRUD volume operations including get, create, modify, and delete
- Cannot create a volume clone

You can then optionally update the role as needed. In this workflow, the role is changed in the second step to allow the user to create a volume clone.

Step 1: Create the role

You can issue an API call to create the RBAC role.

HTTP method and endpoint

This REST API call uses the following method and endpoint.

HTTP method	Path
POST	/api/security/roles

Curl example

```
curl --request POST \
--location "https://$FQDN_IP/api/security/roles" \
--include \
--header "Accept: */*" \
--header "Authorization: Basic $BASIC_AUTH" \
--data @JSONinput
```

JSON input example

```
{
  "name": "role1",
  "owner": {
    "name": "cluster-1",
    "uuid": "852d96be-f17c-11ec-9d19-005056bbad91"
  },
  "privileges": [
      { "path": "volume create", "access": "all" },
      { "path": "volume delete", "access": "all" }
    ]
}
```

Step 2: Update the role

You can issue an API call to update the existing role.

HTTP method and endpoint

This REST API call uses the following method and endpoint.

HTTP method	Path
POST	/api/security/roles

Additional input parameters for curl examples

In addition to the parameters common with all REST API calls, the following parameters are also used in the curl example in this step.

Parameter	Type	Required	Description
$SVM_ID	Path	Yes	This is the UUID of the SVM that contains the role definition.
$ROLE_NAME	Path	Yes	This is the name of the role within the SVM to be updated.

Curl example

```
curl --request POST \
--location
"https://$FQDN_IP/api/security/roles/$SVM_ID/$ROLE_NAME/privileges" \
--include \
--header "Accept: */*" \
--header "Authorization: Basic $BASIC_AUTH" \
--data @JSONinput
```

JSON input example

```
{
  "path": "volume clone",
  "access": "all"
}
```

Enable adminstration of data protection using the ONTAP REST API

You can provide a user with limited data protection capabilities.

About this workflow

The traditional role created is defined with the following characteristics:

- Able to create and delete snapshots as well as update SnapMirror relationships
- Cannot create or modify higher level objects such as volumes or SVMs

HTTP method and endpoint

This REST API call uses the following method and endpoint.

HTTP method	Path
POST	/api/security/roles

Curl example

```
curl --request POST \
--location "https://$FQDN_IP/api/security/roles" \
--include \
--header "Accept: */*" \
--header "Authorization: Basic $BASIC_AUTH" \
--data @JSONinput
```

JSON input example

```
{
  "name": "role1",
  "owner": {
    "name": "cluster-1",
    "uuid": "852d96be-f17c-11ec-9d19-005056bbad91"
  },
  "privileges": [
      {"path": "volume snapshot create", "access": "all"},
      {"path": "volume snapshot delete", "access": "all"},
      {"path": "volume show", "access": "readonly"},
      {"path": "vserver show", "access": "readonly"},
      {"path": "snapmirror show", "access": "readonly"},
      {"path": "snapmirror update", "access": "all"}
  ]
}
```

Allow generation of ONTAP reports using the ONTAP REST API

You can create a REST role to provide users with the ability to generate ONTAP reports.

About this workflow

The role created is defined with the following characteristics:

- Able to retrieve all storage object information related to capacity and performance (such as volume, qtree, LUN, aggregates, node, and SnapMirror relationships)
- Cannot create or modify higher level objects (such as volumes or SVMs)

HTTP method and endpoint

This REST API call uses the following method and endpoint.

HTTP method	Path
POST	/api/security/roles

Curl example

```
curl --request POST \
--location "https://$FQDN_IP/api/security/roles" \
--include \
--header "Accept: */*" \
--header "Authorization: Basic $BASIC_AUTH" \
--data @JSONinput
```

JSON input example

```
{
  "name": "rest_role1",
  "owner": {
    "name": "cluster-1",
    "uuid": "852d96be-f17c-11ec-9d19-005056bbad91"
  },
  "privileges": [
      {"path": "/api/storage/volumes", "access": "readonly"},
      {"path": "/api/storage/qtrees", "access": "readonly"},
      {"path": "/api/storage/luns", "access": "readonly"},
      {"path": "/api/storage/aggregates", "access": "readonly"},
      {"path": "/api/cluster/nodes", "access": "readonly"},
      {"path": "/api/snapmirror/relationships", "access": "readonly"},
      {"path": "/api/svm/svms", "access": "readonly"}
  ]
}
```

Create a user with a role using the ONTAP REST API

You can use this workflow to create a user with an associated REST role.

About this workflow

This workflow includes the typical steps needed to create a custom REST role and associate it with a new user account. Both the user and role have an SVM scope and are associated with a specific data SVM. Some of the steps may be optional or need to change depending on your environment.

Step 1: List the data SVMs in the cluster

Perform the following REST API call to list the SVMs in the cluster. The UUID and name of each SVM are provided in the output.

HTTP method and endpoint

This REST API call uses the following method and endpoint.

HTTP method	Path
GET	/api/svm/svms

Curl example

```
curl --request GET \
--location "https://$FQDN_IP/api/svm/svms?order_by=name" \
--include \
--header "Accept: */*" \
--header "Authorization: Basic $BASIC_AUTH"
```

After you finish

Select the desired SVM from the list where you will create the new user and role.

Step 2: List the users defined to the SVM

Perform the following REST API call to list the users defined in the SVM you selected. You can identify the SVM through the owner parameter.

HTTP method and endpoint

This REST API call uses the following method and endpoint.

HTTP method	Path
GET	/api/security/accounts

Curl example

```
curl --request GET \
--location "https://$FQDN_IP/api/security/accounts?owner.name=dmp" \
--include \
--header "Accept: */*" \
--header "Authorization: Basic $BASIC_AUTH"
```

After you finish

Based on the users already defined in the SVM, choose a unique name for the new user.

Step 3: List the REST roles defined to the SVM

Perform the following REST API call to list the roles defined in the SVM you selected. You can identify the SVM through the owner parameter.

HTTP method and endpoint

This REST API call uses the following method and endpoint.

HTTP method	Path
GET	/api/security/roles

Curl example

```
curl --request GET \
--location "https://$FQDN_IP/api/security/roles?owner.name=dmp" \
--include \
--header "Accept: */*" \
--header "Authorization: Basic $BASIC_AUTH" \
--data @JSONinput
```

After you finish

Based on the roles already defined in the SVM, choose a unique name for the new role.

Step 4: Create a custom REST role

Perform the following REST API call to a create a custom REST role in the SVM. The role initially has only one privilege which establishes a default access of **none** so that all access is denied.

HTTP method and endpoint

This REST API call uses the following method and endpoint.

HTTP method	Path
POST	/api/security/roles

Curl example

```
curl --request POST \
--location "https://$FQDN_IP/api/security/roles" \
--include \
--header "Accept: */*" \
--header "Authorization: Basic $BASIC_AUTH" \
--data @JSONinput
```

JSON input example

```
{
  "name": "dprole1",
  "owner": {
    "name": "dmp",
    "uuid": "752d96be-f17c-11ec-9d19-005056bbad91"
  },
  "privileges": [
      {"path": "/api", "access": "none"},
  ]
}
```

After you finish

Optionally perform step 3 again to display the new role. You can also display the roles at the ONTAP CLI.

Step 5: Update the role by adding more privileges

Perform the following REST API call to modify the role by adding privileges as needed.

HTTP method and endpoint

This REST API call uses the following method and endpoint.

HTTP method	Path
POST	/api/security/roles/{owner.uuid}/{name}/privileges

Additional input parameters for curl examples

In addition to the parameters common with all REST API calls, the following parameters are also used in the curl example in this step.

Parameter	Type	Required	Description
$SVM_ID	Path	Yes	The UUID of the SVM that contains the role definition.
$ROLE_NAME	Path	Yes	The name of the role within the SVM to be updated.

Curl example

```
curl --request POST \
--location
"https://$FQDN_IP/api/security/roles/$SVM_ID/$ROLE_NAME/privileges" \
--include \
--header "Accept: */*" \
--header "Authorization: Basic $BASIC_AUTH" \
--data @JSONinput
```

JSON input example

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

After you finish

Optionally perform step 3 again to display the new role. You can also display the roles at the ONTAP CLI.

Step 6: Create a user

Perform the following REST API call to a create a user account. The role **dprole1** created above is associated with the new user.

You can create the user without a role. In this case, the user is assigned a default role (either `admin` or `vsadmin`) depending on whether the user is defined with cluster or SVM scope. You'll need to modify the user to assign a different role.

HTTP method and endpoint

This REST API call uses the following method and endpoint.

HTTP method	Path
POST	/api/security/accounts

Curl example

```
curl --request POST \
--location "https://$FQDN_IP/api/security/accounts" \
--include \
--header "Accept: */*" \
--header "Authorization: Basic $BASIC_AUTH" \
--data @JSONinput
```

JSON input example

```
{
  "owner": {"uuid":"daf84055-248f-11ed-a23d-005056ac4fe6"},
  "name": "david",
  "applications": [
      {"application":"ssh",
       "authentication_methods":["password"],
       "second_authentication_method":"none"}
  ],
  "role":"dprole1",
  "password":"<password>"
}
```

After you finish

You can sign in to the SVM management interface using the credentials for the new user.

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