Certificates and keys

ONTAP Automation

NetApp
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Certificates and keys

List the installed certificates

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

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.

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