



Manage security certificates

ONTAP 9.6 REST API reference

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Manage security certificates

Security certificates endpoint overview

Overview

This API displays security certificate information and manages the certificates in ONTAP.

Installing certificates in ONTAP

The security certificates GET endpoint retrieves all of the certificates in the cluster.

Examples

Retrieving all certificates installed in the cluster with their common-names

```
# The API:
/api/security/certificates

# The call:
curl -X GET "https://<mgmt-
ip>/api/security/certificates?fields=common_name" -H "accept:
application/hal+json"

# The response:
{
  "records": [
    {
      "svm": {
        "name": "vs0"
      },
      "uuid": "dad2363b-8ac0-11e8-9058-005056b482fc",
      "common_name": "vs0",
      "_links": {
        "self": {
          "href": "/api/security/certificates/dad2363b-8ac0-11e8-9058-
005056b482fc"
        }
      }
    },
    {
      "uuid": "1941e048-8ac1-11e8-9058-005056b482fc",
      "common_name": "ROOT",
      "_links": {
        "self": {
          "href": "/api/security/certificates/1941e048-8ac1-11e8-9058-
```

```
005056b482fc"
    }
  },
  {
    "uuid": "5a3a77a8-892d-11e8-b7da-005056b482fc",
    "common_name": "gshanccluster-4",
    "_links": {
      "self": {
        "href": "/api/security/certificates/5a3a77a8-892d-11e8-b7da-005056b482fc"
      }
    }
  }
],
"num_records": 3,
"_links": {
  "self": {
    "href": "/api/security/certificates?fields=common_name"
  }
}
}
```

Retrieving all certificates installed at cluster-scope with their common-names

```
# The API:
/api/security/certificates

# The call:
curl -X GET "https://<mgmt-
ip>/api/security/certificates?scope=cluster&fields=common_name" -H
"accept: application/hal+json"

# The response:
{
  "records": [
    {
      "uuid": "1941e048-8ac1-11e8-9058-005056b482fc",
      "scope": "cluster",
      "common_name": "ROOT",
      "_links": {
        "self": {
          "href": "/api/security/certificates/1941e048-8ac1-11e8-9058-
005056b482fc"
        }
      }
    },
    {
      "uuid": "5a3a77a8-892d-11e8-b7da-005056b482fc",
      "scope": "cluster",
      "common_name": "gshancluster-4",
      "_links": {
        "self": {
          "href": "/api/security/certificates/5a3a77a8-892d-11e8-b7da-
005056b482fc"
        }
      }
    }
  ],
  "num_records": 2,
  "_links": {
    "self": {
      "href": "/api/security/certificates?scope=cluster&fields=common_name"
    }
  }
}
```

Retrieving all certificates installed on a specific SVM with their common-names

```
# The API:
/api/security/certificates

# The call:
curl -X GET "https://<mgmt-
ip>/api/security/certificates?svm.name=vs0&fields=common_name" -H "accept:
application/hal+json"

# The response:
{
  "records": [
    {
      "svm": {
        "name": "vs0"
      },
      "uuid": "dad2363b-8ac0-11e8-9058-005056b482fc",
      "common_name": "vs0",
      "_links": {
        "self": {
          "href": "/api/security/certificates/dad2363b-8ac0-11e8-9058-
005056b482fc"
        }
      }
    }
  ],
  "num_records": 1,
  "_links": {
    "self": {
      "href": "/api/security/certificates?svm.name=vs0&fields=common_name"
    }
  }
}
```

Retrieving a certificate using its UUID for all fields

```
# The API:
/api/security/certificates/{uuid}
```

```
# The call:
curl -X GET "https://<mgmt-ip>/api/security/certificates/dad2363b-8ac0-11e8-9058-005056b482fc?fields=*" -H "accept: application/hal+json"

# The response:
{
  "svm": {
    "uuid": "dad2363b-8ac0-11e8-9058-005056b482fc",
    "name": "vs0"
  },
  "uuid": "dad2363b-8ac0-11e8-9058-005056b482fc",
  "scope": "svm",
  "type": "server",
  "common_name": "vs0",
  "serial_number": "15428D45CF81CF56",
  "ca": "vs0",
  "hash_function": "sha256",
  "key_size": 2048,
  "expiry_time": "2019-07-18T15:29:14-04:00",
  "public_certificate": "-----BEGIN CERTIFICATE-----
\nMIIDQjCCAiqgAwIBAgIIFUKNRc+Bz1YwDQYJKoZIhvcNAQELBQAwwGZEMMAoGA1UE\n\nAxAxMDdnMwMQswCQYDVQQGEwJVUzAeFw0xODA3MTgxOTI1MTRaFw0xOTA3MTgxOTI1\n\nS\ nMTRaMBsxDDAKBgNVBAMTA3ZzMDELMakGA1UEBhMCVVMwggeEiMA0GCSqGSIsb3DQEB\n\n\nAQAUA4IBDWAawggEKAoIBAQCqFQB27th2ACOMJvWgLhlXRzobSb2ZTQfO56lfaXQ3\n\n\n\nIbiT+rnrWXetd/s2+iCv9ld9LW0NOMP3MN2f3SFbyze3dl7WrnVbjLmYuI9MfOxs\n\n\n\nnfma+Bh6gpap5Yn2YddqoV6rfNGAuUveNLArNl8wODk/mpawpEQ93QSa1zfglgnoh\n\n\n\nrFrYqiSYT06X5g6RBUel4LTGXspz+plU46Za0i6QyxtvZ4bneibffFXN3IigpqI6\n\n\n\nTGUV8R/J3Ps338VxVmSO9ZXBZmvbcJVoySYNICl/oifgfPZlnBv0tbSwqg4FoZO/\n\n\n\nWT+XHGHlep6cr/Aqg7u6C4RfqBCwzB/XFKDIqnMAQKDBAGMBAAGjYkwgYYwDAYD\n\n\n\nVR0TBAUwAwEB/zALBgNVHQ8EBAMCAQYwHQYDVR0OBBYEfn/AnH8qLxocTtumNHIn\n\n\n\nEN4IFIDBMEoGA1UdIwRDMEGAFN/AnH8qLxocTtumNHInEN4IFIDBoR+kHTAbMQww\n\n\n\nnCgYDVQQDEwN2czAxZCZAJBgNVBAYTA1VTgggVQo1Fz4HPVjANBgkqhkiG9w0BAQsF\n\n\n\n\nAAOCAQEAA0pUEepdeQnd2Amwg8UFyxayb8eu3E6dlptvtyp+xtjhIC7Dh95CVXhy\n\n\n\n\nnkJS3Tsu60PGR/b2vc3MZtAUpcL4ceD8XntKPQgBlqoB4bRogCe1TnlGswRXDX5TS\n\n\n\nngMVrRjaWTBF7ikt4Ujr05rSxcDGplQRqjnOthqi+yPT+29+8a4Uu6J+3Kdrflj4p\n\n\n\n\nn1nSWpuB9EyxtuCILNqXA2ncH7YKtoeNtChKCchhvPcoTy6Opma6UQn5UMxstkvGT\n\n\n\n\nVGan5TlRWv0yiqPXIQblSqXi/uQsuRPCHdu7+KWRFn08USa6QVo2mDs9P7R9dd0K\n\n\n\n\n9QAsTjTOF9PlAKgNxGoOJl2y0+48AA==\n\n\n\n\nEND CERTIFICATE-----
\n",
  "_links": {
    "self": {
      "href": "/api/security/certificates/dad2363b-8ac0-11e8-9058-005056b482fc"
    }
  }
}
```

Creating a certificate in a cluster

These certificates can be used to help administrators enable certificate-based authentication and to enable SSL-based communication to the cluster.

```
# The API:
/api/security/certificates

# The call:
curl -X POST "https://<mgmt-ip>/api/security/certificates" -H "accept:
application/hal+json" -H "Content-Type: application/json" -d "{
  \"common_name\": \"TEST-SERVER\",  \"type\": \"server\"  }"
```

Installing a certificate in a cluster

These certificates can be used to help administrators enable certificate-based authentication and to enable-SSL based communication to the cluster.


```
# The API:
/api/security/certificates

# The call:
curl -X POST "https://<mgmt-ip>/api/security/certificates" -H "accept:
application/json" -H "Content-Type: application/json" -d "{ \"type\":
\"server-ca\", \"public_certificate\": \"-----BEGIN CERTIFICATE-----
\\nMIIIFYDCCA0igAwIBAgIQCgFCgAAAAUjyESlAAAAAaJANBgkqhkiG9w0BAQsFADBKMQswCQYD
VQQG\\nEwJVUzESMBAGA1UEChMJSWRlb1RydXN0MScwJQYDVQQDEx5JZGVuVHJ1c3QgQ29tbWVy
Y2lhbCBS\\nb290IENBIDEwHhcNMTQwMTE2MTgxMjIzWhcNMzQwMTE2MTgxMjIzWjBKMQswCQYD
VQQGEwJVUzES\\nMBAGA1UEChMJSWRlb1RydXN0MScwJQYDVQQDEx5JZGVuVHJ1c3QgQ29tbWVy
Y2lhbCBSb290IENB\\nIDEwggIiMA0GCSqGSIb3DQEBAQUAA4ICDwAwggIKAoICAQCnUBneP5k9
1DNG8W9RYYKYqU+PZ4ld\\nhNlT3Qwo2dfw/66VQ3KZ+bVdfIrBQuExUHRgQl8zZshq0PirKle
hm7zCYofWjK9ouuU+ehcCuz/\\nmNKvcb00U59Oh++SvL3sTzIwiEsXXlfEU8L2ApeN2WIrvyQf
Yo3fw7gpS0l4PJNgiCL8mdo2yMKi\\n1CxUAGclbnO/AljwpN3lsKImesrgNqUZFvX9t++uP0D1
bVoE/c40yiTcdCMbXTMTEl3EASX2MN0C\\nXZ/g1Ue9tOsobobTJSdifWwLziuQkkORiT0/Br4sO
dBeo0XKIanoBScy0RnnGF7HamB4HWfp1IYVl\\n3ZBWzvurpWCdxJ35UrCLvYf5jysjCiN2O/cz
4ckA82n5S6LgTrx+kzmEB/dEcH7+B1rlsazRGMzy\\nNeVJSQjKVsk9+w8YfYs7wRPCTY/JTw43
6R+hDmrfYi7LNQZReSzIJTj0+kuniVyc0uMNOYzKdHzV\\nWYfCP04MXFL0PfdSgvHqo6z9STQa
KPNBiDoT7uje/5kdX7rL6B7yuVBgwDHTc+XvvqDtMwt0viAg\\nxGds8AgDelWAF0Z0lqf0Hj7h
9tgJ4TNkK2PXm16f+cB7D3hvl7yTmvmcEpB4eoCHFddydJxVdHix\\nuuFucAS6T6C6aMN7/zHw
cz09lCqxCOEOoP5NiGVreTO01wIDAQABo0IwQDAOBgNVHQ8BAf8EBAMC\\nAQYwDwYDVR0TAQH/
BAUwAwEB/zAdBgNVHQ4EFgQU7UQZwNPwBovupHu+QucmVMiONnYwDQYJKoZI\\nhvcNAQELBQAD
ggIBAA2ukDL2pkt8RHYZYR4nKM1eVO8lvOMIkPkp165oCOGUAFjvLi5+U1KMtlwH\\n6oi6mYtQ
lNeCgN9hCQCTrQ0U5s7B8jeUeLBfnLOic7iPBZM4zy0+sLj7wM+x8uwtLRvM7Kqas6pg\\nghst
O8OEPVeKlh6cdbhTMM1gCIOQ045U8U1mwF10A0Cj7oV+wh93nAbowacYXVKV7cndJZ5t+qnt\\n
ozo00F172ulQ8zW/7esUTTHHYPTa8Yec4kjixsU3+wYQ+nVZZjFHKdp2mhzpgq7vmrlR94gjmm
mV\\nYjzlVYA211QC//G5Xc7UI2/YRYRKW2XviQzdFKcgyxilJbQN+QHwotL0AMh0jqEqSI5l2x
PE4iUX\\nfeu+hlsXIFRRk0pTAwvsXcoz7WL9RccvW9xYoIA55vrX/hMUpu09lEpCdNTDd1lzzY
9GvlU47/ro\\nkTLq1lgEIt44w8y8bckzOmoKaT+gyOpyj4xjhi09bTyWnpXgSUyqorkqG5w2gX
jtw+hG4iZZRHUe\\n2XWJUc0QhJ1hYMTd+ZciTY6Y5uN/9lu7rs3KSoFrXgvzUeF0K+l+J6fZmU
lO+KWA2yUPHGNiiskz\\nZ2s8EIPGrd6ozRaOjfAHN3Gf8qv8QfXBi+wAN10J5U6A7/qxXDgGpR
tK4dw4LTzcqx+QGtVKno7R\\ncGzM7vRX+Bi6hG6H\\n-----END CERTIFICATE-----\\n\"
}"
```

Installing a certificate on a specific SVM

```
# The API:
/api/security/certificates

# The call:
curl -X POST "https://<mgmt-ip>/api/security/certificates" -H "accept:
application/json" -H "Content-Type: application/json" -d "{  \"svm\" : {
  \"name\" : \"vs0\" }, \"type\": \"server-ca\", \"public_certificate\":
  \"-----BEGIN CERTIFICATE-----
\nMIIFYDCCA0igAwIBAgIQCgFCgAAAAUjyES1AAAAjANBgkqhkiG9w0BAQsFADBKMQswCQYD
VQQG\nEwJVUzESMBAGA1UEChMJSWRlb1RydXN0MScwJQYDVQQDEx5JZGVuVHJ1c3QgQ29tbWVy
Y2lhbCBS\nb290IENBIDEwHhcNMTQwMTE2MTgxmjIzWhcNMzQwMTE2MTgxmjIzWjBKMQswCQYD
VQQGEwJVUzES\nMBAGA1UEChMJSWRlb1RydXN0MScwJQYDVQQDEx5JZGVuVHJ1c3QgQ29tbWVy
Y2lhbCBSb290IENB\nIDewggIiMA0GCSqGSIb3DQEBAQUAA4ICDwAwggIKAoICAQCnUBneP5k9
1DNG8W9RYYKyqU+PZ4ld\nhNlT3Qwo2dfw/66VQ3KZ+bVdfIrBQuExUHTRgQ18zZshq0PirK1e
hm7zCYofWjK9ouuU+ehcCuz/\nmNKvcb00U59Oh++SvL3sTzIwiEsXXlFEU8L2ApeN2WIrVYQf
Yo3fw7gps014PJNgiCL8mdo2yMKi\nlCcxUAGclbnO/AljwpN3lsKImesrgNqUZFvX9t++uP0D1
bVoE/c40yiTcdCMbXTMTEl3EASX2MN0C\nXZ/g1Ue9tOsbobTJSdifWwLziuQkkORiT0/Br4sO
dBeo0XKIanoBScy0RnnGF7HamB4HWfp1IYVl\n3ZBWzvurpWCdxJ35UrClvYf5jysjCiN2O/cz
4ckA82n5S6LgTrx+kzmEB/dEcH7+B1rlsazRGMzy\nNeVJSQjKVsk9+w8YfYs7wRPCTY/JTw43
6R+hDmrfYi7LNQZReSzIJTj0+kuniVyc0uMNOYZKdHzV\nWYfCP04MXFL0PfdSgvHqo6z9STQa
KPNBiDoT7uje/5kdX7rL6B7yuVBgwDHTc+XvvqDtMwt0viAg\nxGds8AgDelWaf0ZOlqf0Hj7h
9tgJ4TNkK2PXMl6f+cB7D3hvl7yTmvmcEpB4eoCHFddyJxVdHix\nnuuFucAS6T6C6aMN7/zHw
cz09lCqxC0EOoP5NiGVreTO0lwIDAQABo0IwQDAOBgNVHQ8BAf8EBAMC\naQYwDwYDVR0TAQH/
BAUwAwEB/zAdBgNVHQ4EFgQU7UQZwNPwBovupHu+QucmVMiONnYwDQYJKoZI\nnhvcNAQELBQAD
ggIBAA2ukDL2pkt8RHYZYR4nKM1eVO8lvOMIkPkp165oCOGUAFjvLi5+U1KMtlwH\nn6oi6mYtQ
lNeCgN9hCQCTrQ0U5s7B8jeUeLBfnLOic7iPBZM4zy0+sLj7wM+x8uwtLRvM7Kqas6pg\nnghst
O8OEPVeKlh6cdbhTMM1gCIOQ045U8U1mwF10A0Cj7oV+wh93nAbowacyXVKV7cndJZ5t+qnt\n
ozo00F172u1Q8zW/7esUTTHHYPTa8Yec4kjixsU3+wYQ+nVZZjFHKdp2mhZpgq7vmrlR94gjmm
mV\nnYjzlVYA211QC//G5Xc7UI2/YRYRKW2XviQzdFKcgyxilJbQN+QHwotL0AMh0jqEqSI5l2x
PE4iUX\nnfeu+hlsXIFRRk0pTAwvsXcoz7WL9RccvW9xYoIA55vrX/hMUpu09lEpCdNTDd1lzzY
9GvlU47/ro\nnkTLqllgEIt44w8y8bckzOmoKaT+gyOpyj4xjhi09bTyWnpXgSUyqorkqG5w2gX
jtw+hG4iZZRHUE\n2XWJUc0QhJ1hYMTd+ZciTY6Y5uN/9lu7rs3KSoFrXgvzUeF0K+l+J6fZmU
lo+KWA2yUPHGNIiskz\n2s8EIPGrd6ozRaOjfAHN3Gf8qv8QfXBi+wAN10J5U6A7/qxXDgGpR
tK4dw4LTzcqx+QGtVKno7R\nncGzM7vRX+Bi6hG6H\n-----END CERTIFICATE-----\n\"
}"
```

Deleting a certificate using its UUID

```
# The API:
/api/security/certificates/{uuid}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/security/certificates/dad2363b-8ac0-11e8-9058-005056b482fc?fields=*" -H "accept: application/hal+json"
```

Signing a new certificate signing request using an existing CA certificate UUID

Once you have created a certificate of type "root_ca", you can use that certificate to act as a local Certificate Authority to sign new certificate signing requests. The following example signs a new certificate signing request using an existing CA certificate UUID. If successful, the API returns a signed certificate.

```
# The API:
/api/security/certificates/{ca.uuid}/sign

# The call:
curl -X POST "https://<mgmt-ip>/api/security/certificates/253add53-8ac9-11e8-9058-005056b482fc/sign" -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"signing_request\": \"-----BEGIN CERTIFICATE REQUEST-----\n\nMIICYTCCAUKCAQAwHDENMAsGA1UEAxMEVEVTVDELMAkGA1UEBhMCVVMwggeiMA0G\nb3DQEBAQUAA4IBDwAwggEKAoIBAQCIBCuVfbYHNd0O7vjRQja4JqL2cHqK\ndr1Tj5hz9RVqFKZ7VPh8DSP9LoTbYWsvrTkbuD0Wi715MVQCsbkq/mHos+Y5lfqs\nnNP5K92fc6EhBzBDYFgZGFntZYJjEG5MPerIUE7CfVy7o6sjW0lxeY33pjefObyvP\nnBcJkBHg6SFJK/TDLvIYJkonLkJEOJoTI6++a3I/1bCMfUeuRtLU9ThWlna1kMMYK\nn4T16/Bxgm4bha2U2jtosc0Wltnld/capc+eqRV07WVbMmEOttop3cv0h3N0S61bn\nnFkd96DXzeGWbSHFHckeCZ9bOHhnVbfEa/efkPLx7ziMC8GtRHHlwbNk7AgMBAAGg\nnADANBgkqhkiG9w0BAQsFAAOCAQEaf+rs1i5PHaOSI2HtTM+Hcv/p71yzgoLL+aeU\nntB0V4iuoXdqY8oQeWoPI92ci0K08JuSpu6D0DwCK1stfwuGkAA2b0Wr7ZDRonT\nUq\nnmJ4j3047MLysW4Db2LbGws/AuDsCIrBJDWHMPHaqsvRbpMx2xQ/V5oagUw5eGGpN\nne4fg/E2k9mGkpxwkUzT7w1RZirpND4xL+XTzpzeZqgalpXug4yjIXlI5hpRESZ9\n\nnAkGJSCWxi15IZdxxFVXlBcmm6WpJnnboqkcKeXz95GM6Re+oBy9tlgvwv1Vd5s8uHX\n+bycFiZp09Wsm8Ev727MziZ+0II9nxwkDKsdPvam+KLI9hLQ=\\n-----END CERTIFICATE REQUEST-----\\n\", \"hash_function\": \"sha256\"}"

# The response:
{
  "public_certificate": "-----BEGIN CERTIFICATE-----\n\nMIIDBzCCAe+gAwIBAgIIFUKQpcqeaUAWDQYJKoZIhvcNAQELBQAwHDENMAsGA1UE\nnAxMEUkFDWDELMAkGA1UEBhMCVVMwHhcNMjgwNzE4MjAzMTA1WhcNMjgwNzE4MjAz\nnMTA1WjAcMQ0wCwYDVQQDEwRURVNUMQswCQYDVQQGEwJVUzCCASIwDQYJKoZIhvcNAQ\nEBBQADggEPADCCAQoCggEBBAKIEK5V9tgc1047u+NFCNrgmovZweop2uVOPmHP1\nnFWoUpntU+HwNI/0uhNthay+tORu4PRaLvXkxVAKxuSr+Yeiz5jmV+qw0/kr3Z9zo\nnSEHMENgWBkYWellgmMQbkW96shQTSJ9XLujqyNY6XF5jfemN585vK88FwmQEeDpI\nnUkr9MMu8hgmSicuQkQ4mhMjr75rcj/VsIx9R65G0tT10FaWdrWQwxgrhPxR8HGCb\n\nnhuFrZTa02ixzRaW2eV39xqlz56pFXTtZVsyYQ502indy/SHc3RLqVucWR33oNfn4\n\nnZztIcUdyR4Jnls4eGdVt8Rr95+Q8vHvOIwLwa1EceXBucrsCAwEAAaNNMESwCQYD\n\nnVR0TBAlwADAdBgNVHQ4EFgQUJMPxjEw1G76TbbD2tXB8dwSpI3MwHwYDVR0jBBgw\n\nnFoAUu5aH0mWR4cFoN9i7k96d2op3sPwwDQYJKoZIhvcNAQELBQADggEBAI5ai+Zi\n\nnFQZUXRTqJCgHsgBThARneVWQYkYpyAXmTR7QeLfl4ZHL33i4xWCqX3uvW7SFJLe\n\nnZajT2AVmgidbaWIHtDtvqz1BY78PSgUwPH/IyARTEOBeikp6KdwMPraehDIBMAcc\n\nnANY58wXiTBbsl8UMD6tGecgnzw6sxlMmadGvrfJeJmgY4zert6NNvgTTPhcZQdLS\n\nnE0fGzHS6+3ajCCfEEhPNPer9D0e5Me81i9EsQGENrnJzTci8rzXPuF4bC3gghrK1\n\nnI1+kmJQ1kLYVUcsntcrIiHmNvtPFJY6stjDgQKS9aDd/THhPpokPtZoCmE6PDxh6\n\nnR+dO6C0hcDKHFzA=\\n-----END CERTIFICATE-----\\n"
}
```

Retrieve security certificates

GET /security/certificates

Retrieves security certificates.

Related ONTAP commands

- `security certificate show`

Learn more

- [DOC /security/certificates](#)

Parameters

Name	Type	In	Required	Description
scope	string	query	False	Filter by scope
svm.name	string	query	False	Filter by svm.name
svm.uuid	string	query	False	Filter by svm.uuid
common_name	string	query	False	Filter by common_name
serial_number	string	query	False	Filter by serial_number
ca	string	query	False	Filter by ca
type	string	query	False	Filter by certificate type
key_size	string	query	False	Filter by key_size
expiry_time	string	query	False	Filter by expiry_time
hash_function	string	query	False	Filter by hash_function
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.

Name	Type	In	Required	Description
return_timeout	integer	query	False	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.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned.
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[security_certificate]	

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "ca": "string",
    "common_name": "test.domain.com",
    "hash_function": "sha1",
    "intermediate_certificates": {
    },
    "private_key": "-----BEGIN PRIVATE KEY-----
MIIBVAIBADANBgkqhkiG9w0BAQEFAASCAT4wggE6AgEAAKEAu1/a8f3G47cZ6pel
Hd3aONMNkGJ8vSCH5QjicuDm92VtVwKAACEjIoZSLYlJvPD+odL+lFzVQSmkneW7
VCGqYQIDAQABAKAcfNpg6GCQxoneLOghv1UrRotNZGvqpUOEAvHK3X7AJhz5SU4V
an36qvsAt5ghFMVM2iGvGaXbj0dAd+Jg64pxAiEA32Eh9mPtFSmZhTIUMeGcPmPk
qIYCEuP8a/ZLmI9s4TsCIQDWvLQuvjSVfwPhi0TFAb5wqAET8X5LBFqtGX5QlUep
EwIgFnqM02Gc4wtLoqa2d4qPkYul3+uUW9hLd4XSd6i/OS8CIQDT3elU+Rt+qIwW
u0cFrVvNYSV3HNzDfS9N/IoxTagfewIgpVXADe5c2EWbhCUkhN+ZCf38AKewK9TW
lQcDy4L+f14= -----END PRIVATE KEY-----",
    "public_certificate": "-----BEGIN CERTIFICATE-----
MIIBuzCCAwwGAwIBAgIIFTZBrqZwUUMwDQYJKoZIhvcNAQELBQAwhDENMAsGA1UE
AxMEVEVTVDELMAkGA1UEBhMCVVMwHhcNMTgwNjA4MTgwOTAxWhcNMTkwNjA4MTgw
OTAxWjAcMQ0wCwYDVQQDEwRURVNUMQswCQYDVQQGEwJVUzBcMA0GCSqGSIb3DQEB
AQUAA0sAMEgCQQDaPvbqUJJFJ6NNTyK3Yb+ytSjJ9aa3yUmYTD9uMiP+6ycjxHWB
e8u9z6yCHsW03ync+dnhE5c5z8wuDAY0fv15AgMBAAGjgYowgYcwDAYDVR0TBAUw
AwEB/zALBgNVHQ8EBAMCAQYwHQYDVR0OBBYEFMJ7Ev/o/3+YNzYh5XNlqqjnw4zm
MESGA1UdIwREMEKA FMJ7Ev/o/3+YNzYh5XNlqqjnw4zmoSCkhjAcMQ0wCwYDVQQD
EwRURVNUMQswCQYDVQQGEwJVU4IIFTZBrqZwUUMwDQYJKoZIhvcNAQELBQADQQA
vDovYeyGNknjGI+TVNX6nDbyzf7zUPqnri0KuvObEeybrbPW45sgsnT5dyeE/32U
9Yr6lklklnkBTvBDTmLnrc -----END CERTIFICATE-----",
    "scope": "svm",
    "serial_number": "string",
    "svm": {
      "_links": {
```

```

    "self": {
      "href": "/api/resourcelink"
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "type": "client",
  "uuid": "string"
}

```

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	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

security_certificate

Name	Type	Description
_links	_links	
ca	string	Certificate authority
common_name	string	FQDN or custom common name. Provide on POST when creating a self-signed certificate.
expiry_time	string	Certificate expiration time. Can be provided on POST if creating self-signed certificate. The expiration time range is between 1 day to 10 years.

Name	Type	Description
hash_function	string	Hashing function. Can be provided on POST when creating a self-signed certificate. Hash functions md5 and sha1 are not allowed on POST.
intermediate_certificates	array[string]	Chain of intermediate Certificates in PEM format. Only valid in POST when installing a certificate.
key_size	integer	Key size of requested Certificate in bits. One of 512, 1024, 1536, 2048, 3072. Can be provided on POST if creating self-signed certificate. Key size of 512 is not allowed on POST.
private_key	string	Private key Certificate in PEM format. Only valid for create when installing a CA-signed certificate. This is not audited.
public_certificate	string	Public key Certificate in PEM format. If this is not provided in POST, a self-signed certificate is created.
scope	string	Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster".
serial_number	string	Serial number of certificate.
svm	svm	SVM, applies only to SVM-scoped objects.

Name	Type	Description
type	string	Type of Certificate. The following types are supported: <ul style="list-style-type: none"> • client - a certificate and its private key used by an SSL client in ONTAP. • server - a certificate and its private key used by an SSL server in ONTAP. • client_ca - a Certificate Authority certificate used by an SSL server in ONTAP to verify an SSL client certificate. • server_ca - a Certificate Authority certificate used by an SSL client in ONTAP to verify an SSL server certificate. • root_ca - a self-signed certificate used by ONTAP to sign other certificates by acting as a Certificate Authority. • enum: ["client", "server", "client_ca", "server_ca", "root_ca"]
uuid	string	Unique ID that identifies a certificate.

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

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

Create or install security certificates

POST /security/certificates

Creates or installs a certificate.

Required properties

- `svm.uuid` or `svm.name` - Existing SVM in which to create or install the certificate.
- `common_name` - Common name of the certificate. Required when creating a certificate.
- `type` - Type of certificate.
- `public_certificate` - Public key certificate in PEM format. Required when installing a certificate.
- `private_key` - Private key certificate in PEM format. Required when installing a CA-signed certificate.

Recommended optional properties

- `expiry_time` - Certificate expiration time. Specifying an expiration time is recommended when creating a certificate.
- `key_size` - Key size of the certificate in bits. Specifying a strong key size is recommended when creating a certificate.

Default property values

If not specified in POST, the following default property values are assigned:

- `key_size` - *2048*
- `expiry_time` - *P365DT*
- `hash_function` - *sha256*

Related ONTAP commands

- `security certificate create`
- `security certificate install`

Learn more

- [DOC /security/certificates](#)

Request Body

Name	Type	Description
_links	_links	
ca	string	Certificate authority
common_name	string	FQDN or custom common name. Provide on POST when creating a self-signed certificate.
expiry_time	string	Certificate expiration time. Can be provided on POST if creating self-signed certificate. The expiration time range is between 1 day to 10 years.
hash_function	string	Hashing function. Can be provided on POST when creating a self-signed certificate. Hash functions md5 and sha1 are not allowed on POST.
intermediate_certificates	array[string]	Chain of intermediate Certificates in PEM format. Only valid in POST when installing a certificate.
key_size	integer	Key size of requested Certificate in bits. One of 512, 1024, 1536, 2048, 3072. Can be provided on POST if creating self-signed certificate. Key size of 512 is not allowed on POST.
private_key	string	Private key Certificate in PEM format. Only valid for create when installing a CA-signed certificate. This is not audited.
public_certificate	string	Public key Certificate in PEM format. If this is not provided in POST, a self-signed certificate is created.
scope	string	Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster".
serial_number	string	Serial number of certificate.

Name	Type	Description
svm	svm	SVM, applies only to SVM-scoped objects.
type	string	<p>Type of Certificate. The following types are supported:</p> <ul style="list-style-type: none"> • client - a certificate and its private key used by an SSL client in ONTAP. • server - a certificate and its private key used by an SSL server in ONTAP. • client_ca - a Certificate Authority certificate used by an SSL server in ONTAP to verify an SSL client certificate. • server_ca - a Certificate Authority certificate used by an SSL client in ONTAP to verify an SSL server certificate. • root_ca - a self-signed certificate used by ONTAP to sign other certificates by acting as a Certificate Authority. • enum: ["client", "server", "client_ca", "server_ca", "root_ca"]
uuid	string	Unique ID that identifies a certificate.

Example request

```

{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "ca": "string",
  "common_name": "test.domain.com",
  "hash_function": "sha1",
  "intermediate_certificates": {
  },
  "private_key": "-----BEGIN PRIVATE KEY-----
MIIBVAIBADANBgkqhkiG9w0BAQEFAASCAT4wggE6AgEAAkEAu1/a8f3G47cZ6pel
Hd3aONMNkGJ8vSCH5QjicuDm92VtVwkAACEjIoZSLYlJvPD+odL+lFzVQSmkneW7
VCGqYQIDAQABAkAcfNpg6GCQxoneLOghvUrRotNZGvqpUOEAvHK3X7AJhz5SU4V
an36qvsAt5ghFMVM2iGvGaXbj0dAd+Jg64pxAiEA32Eh9mPtFSmZhTIUMeGcPmPk
qIYCEuP8a/ZLmI9s4TsCIQDWvLQuvjSVfwPhi0TFab5wqAET8X5LBFqtGX5QlUep
EwIgFnqM02Gc4wtLoqa2d4qPkYu13+uUW9hLd4XSd6i/OS8CIQDT3elU+Rt+qIwW
u0cFrVvNYSV3HNzDfS9N/IoxTagfewIgpVxAdE5c2EWbhCUkhN+ZCf38AKewK9TW
lQcDy4L+f14= -----END PRIVATE KEY-----",
  "public_certificate": "-----BEGIN CERTIFICATE-----
MIIBuzCCAWWgAwIBAgIIIFTZBrqZwUUMwDQYJKoZIhvcNAQELBQAWhDENMAsGA1UE
AxMEVEVTVDELMAkGA1UEBhMCVVMwHhcNMTgwNjA4MTgwOTAxWhcNMTkwNjA4MTgw
OTAxWjAcMQ0wCwYDVQQDEWRURVNUMQswCQYDVQQGEwJVUzBcMA0GCSqGSIb3DQEB
AQUAA0sAMEgCQQDaPvbqUJJFJ6NNTyK3Yb+ytSjJ9aa3yUmYTD9uMiP+6ycjxHWB
e8u9z6yCHsW03ync+dnhE5c5z8wuDAY0fv15AgMBAAGjgYowgYcwDAYDVR0TBAUw
AwEB/zALBgNVHQ8EBAMCAQYwHQYDVR0OBBYEFMJ7Ev/o/3+YNzYh5XNlqqjnw4zm
MEsGA1UdIwREMEKA FMJ7Ev/o/3+YNzYh5XNlqqjnw4zmoSCkHjAcMQ0wCwYDVQQD
EwRURVNUMQswCQYDVQQGEwJVU4IIIFTZBrqZwUUMwDQYJKoZIhvcNAQELBQADQQA
vDovYeyGNknjGI+TVNX6nDbyzf7zUPqnri0KuvObEeybrbPW45sgsnT5dyeE/32U
9Yr6lklkBtVBDTmLnrc -----END CERTIFICATE-----",
  "scope": "svm",
  "serial_number": "string",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "type": "client",
  "uuid": "string"
}

```


Response

Status: 201, Created

Name	Type	Description
_links	_links	
num_records	integer	Number of records
records	array[security_certificate]	

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "ca": "string",
    "common_name": "test.domain.com",
    "hash_function": "sha1",
    "intermediate_certificates": {
    },
    "private_key": "-----BEGIN PRIVATE KEY-----
MIIBVAIBADANBgkqhkiG9w0BAQEFAASCAT4wggE6AgEAAKEAu1/a8f3G47cZ6pel
Hd3aONMNkGJ8vSCH5QjicuDm92VtVwkAAACEjIoZSLYlJvPD+odL+lFzVQSmkneW7
VCGqYQIDAQABAKAcfNpg6GCQxoneLOghv1UrRotNZGvqpUOEAvHK3X7AJhz5SU4V
an36qvsAt5ghFMVM2iGvGaXbj0dAd+Jg64pxAiEA32Eh9mPtFSmZhTIUMeGcPmPk
qIYCEuP8a/ZLmI9s4TsCIQDWvLQuvjSVfwPhi0TFAb5wqAET8X5LBFqtGX5QlUep
EwIgFnqM02Gc4wtLoqa2d4qPkYul3+uUW9hLd4XSd6i/OS8CIQDT3elU+Rt+qIwW
u0cFrVvNYSV3HNzDfS9N/IoxTagfewIgPvXADe5c2EWbhCUkhN+ZCf38AKewK9TW
lQcDy4L+f14= -----END PRIVATE KEY-----",
    "public_certificate": "-----BEGIN CERTIFICATE-----
MIIBuzCCAwwGAwIBAgIIFTZBrqZwUUMwDQYJKoZIhvcNAQELBQAwhDENMAsGA1UE
AxMEVEVTVDELMAkGA1UEBhMCVVMwHhcNMTgwNjA4MTgwOTAxWhcNMTkwNjA4MTgw
OTAxWjAcMQ0wCwYDVQQDEwRURVNUMQswCQYDVQQGEwJVUzBcMA0GCSqGSIb3DQEB
AQUAA0sAMEgCQQDaPvbqUJJFJ6NNTyK3Yb+ytSjJ9aa3yUmYTD9uMiP+6ycjxHWB
e8u9z6yCHsW03ync+dnhE5c5z8wuDAY0fv15AgMBAAGjgYowgYcwDAYDVR0TBAUw
AwEB/zALBgNVHQ8EBAMCAQYwHQYDVR0OBBYEFMJ7Ev/o/3+YNzYh5XNlqqjnw4zm
MESGA1UdIwREMEKA FMJ7Ev/o/3+YNzYh5XNlqqjnw4zmoSCkhjAcMQ0wCwYDVQQD
EwRURVNUMQswCQYDVQQGEwJVU4IIFTZBrqZwUUMwDQYJKoZIhvcNAQELBQADQQAv
DovYeyGNknjGI+TVNX6nDbyzf7zUPqnri0KuvObEeybrbPW45sgsnT5dyeE/32U
9Yr6lklklnkBTvBDTmLnrc -----END CERTIFICATE-----",
    "scope": "svm",
    "serial_number": "string",
    "svm": {
      "_links": {
```

```

        "self": {
            "href": "/api/resourcelink"
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    },
    "type": "client",
    "uuid": "string"
}

```

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
3735645	Cannot specify a value for serial. It is generated automatically
3735622	Certificate type not supported
3735664	Specified key size is not supported in FIPS mode
3735665	Specified hash function is not supported in FIPS mode
3735553	Failed to create self-signed Certificate
3735646	Failed to store the certificates
3735693	Certificate installation failed as private key was empty
3735618	Cannot accept private key for server-ca or client-ca
52363365	Failed to allocate memory
52559975	Failed to read the certificate due to incorrect formatting
52363366	Unsupported key type
52560123	Failed to read the key due to incorrect formatting
52559972	The certificates start date is later than the current date
52559976	Certificate and private key do not match
52559973	The certificate has expired
52363366	Logic error: use of a dead object

Error Code	Description
3735696	Intermediate certificates are not supported with client-ca and server-ca type certificates
52559974	The certificate is not supported in FIPS mode
3735676	Cannot continue the installation without a value for the common name. Since the subject field in the certificate is empty, the field "common_name" must have a value to continue with the installation
3735558	Failed to extract information about Common Name from the certificate
3735588	The common name(CN) extracted from the certificate is invalid
3735632	Failed to extract Certificate Authority Information from the certificate

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	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

security_certificate

Name	Type	Description
_links	_links	
ca	string	Certificate authority
common_name	string	FQDN or custom common name. Provide on POST when creating a self-signed certificate.
expiry_time	string	Certificate expiration time. Can be provided on POST if creating self-signed certificate. The expiration time range is between 1 day to 10 years.
hash_function	string	Hashing function. Can be provided on POST when creating a self-signed certificate. Hash functions md5 and sha1 are not allowed on POST.

Name	Type	Description
intermediate_certificates	array[string]	Chain of intermediate Certificates in PEM format. Only valid in POST when installing a certificate.
key_size	integer	Key size of requested Certificate in bits. One of 512, 1024, 1536, 2048, 3072. Can be provided on POST if creating self-signed certificate. Key size of 512 is not allowed on POST.
private_key	string	Private key Certificate in PEM format. Only valid for create when installing a CA-signed certificate. This is not audited.
public_certificate	string	Public key Certificate in PEM format. If this is not provided in POST, a self-signed certificate is created.
scope	string	Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster".
serial_number	string	Serial number of certificate.
svm	svm	SVM, applies only to SVM-scoped objects.

Name	Type	Description
type	string	Type of Certificate. The following types are supported: <ul style="list-style-type: none"> • client - a certificate and its private key used by an SSL client in ONTAP. • server - a certificate and its private key used by an SSL server in ONTAP. • client_ca - a Certificate Authority certificate used by an SSL server in ONTAP to verify an SSL client certificate. • server_ca - a Certificate Authority certificate used by an SSL client in ONTAP to verify an SSL server certificate. • root_ca - a self-signed certificate used by ONTAP to sign other certificates by acting as a Certificate Authority. • enum: ["client", "server", "client_ca", "server_ca", "root_ca"]
uuid	string	Unique ID that identifies a certificate.

_links

Name	Type	Description
next	href	
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.

Sign security certificates

POST /security/certificates/{ca.uuid}/sign

Signs a certificate.

Required properties

- `signing_request` - Certificate signing request to be signed by the given certificate authority.

Recommended optional properties

- `expiry_time` - Certificate expiration time. Specifying an expiration time for a signed certificate is recommended.
- `hash_function` - Hashing function. Specifying a strong hashing function is recommended when signing a certificate.

Default property values

If not specified in POST, the following default property values are assigned:

- `expiry_time` - *P365DT*
- `hash_function` - *sha256*

Related ONTAP commands

- `security certificate sign` This API is used to sign a certificate request using a pre-existing self-signed root certificate. The self-signed root certificate acts as a certificate authority within its scope and maintains the records of its signed certificates.

The root certificate can be created for a given SVM or for the cluster using [POST security/certificates].

Parameters

Name	Type	In	Required	Description
ca.uuid	string	path	True	UUID of the existing certificate authority certificate

Request Body

Name	Type	Description
expiry_time	string	Certificate expiration time. The allowed expiration time range is between 1 day to 10 years.
hash_function	string	Hashing function
signing_request	string	Certificate signing request to be signed by the given certificate authority. Request should be in X509 PEM format.

Example request

```
{
  "hash_function": "sha256",
  "signing_request": "'-----BEGIN CERTIFICATE REQUEST-----
MIICYDCCAUGCAQAwGzEMMAoGA1UEAxMDQUJDMQswCQYDVQQGEwJVUzCCASIwDQYJ
KoZIhvcNAQEBBQADggEPADCCAQoCggEBAPF+82SlqT3Vyu3Jx4IAwHcO5EGwLOxy
zQ6KNjz71Fca0n1/A1CbCPyOsSupGVObvdWxX7xLVMJ2Sxb7h43GCqYyX6FXJO4F
HOpmLvB+jxdeiW7SDbiZyLUlsvA+oRO/uNlcug773QZdKLjJD64erZZMRUNbUJB8
bARxAUi0FPvgTraSQ0UW5sRLiGKeAyKA4wekYe1VgjHRTBizFbD4dI3njfva/2B1
jf+kkulgcLJTUJNtkgeimqMKyraYuleYcYk2K+C//0NuNOuPbDfTXCM7O61vik09
Szi8nLN70XE9KoAA93U/BCpSfpl8XIb4cGnEr8hgVHOotZSo+KZBFxMCAwEAAaAA
MA0GCSqGSIB3DQEBChUAA4IBAQC2vFYpvgSfrM5GnPx8tOBD1xsTyYjbWJMD8hAF
lFrvF9Sw9QGCTdyacxkwgJhQx8l8JiIS5GOY6WWLB19FMkLQNAhDL9xF3WF7vfYq
RKgrz3bd/Vg96fsRZNYIPLGmoEaqLOh3FOCGc2VbdsR9PwOn3fwthxkIRd6ds6/q
jc5cpSmVsCOgu+OKcpRXikYDbkWXfTZ1AhSfn6njBYFdZ9+PNAu/0JRQh5bX60nO
5heniTcAJLwUZP/CQ8nxHY0Wqy+1rAtM33d5cVmhU1BXQSIru/0ZkA/b9fK5Zv8E
ZMADYUoEvIG59Vxhyci8lzYf+Mxl8qBSF+ZdC4yWhzDqZtM9 -----END CERTIFICATE
REQUEST-----'"
}
```

Response

Status: 200, Ok

Name	Type	Description
public_certificate	string	CA signed public key Certificate

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
3735628	Failed to use CA certificate for signing
3735665	Specified hash function is not supported in FIPS mode
52559974	The certificate is not supported in FIPS mode
3735626	Failed to generate signed Certificate
3735558	Failed to extract information about Common Name from the certificate
3735588	The common name(CN) extracted from the certificate is invalid
3735632	Failed to extract Certificate Authority Information from the certificate
3735629	Failed to sign the certificate because Common Name of signing certificate and Common Name of CA certificate are same
3735630	Failed to sign the certificate because expiry date of signing certificate exceeds the expiry date of CA certificate

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

security_certificate_sign

Name	Type	Description
expiry_time	string	Certificate expiration time. The allowed expiration time range is between 1 day to 10 years.
hash_function	string	Hashing function
signing_request	string	Certificate signing request to be signed by the given certificate authority. Request should be in X509 PEM format.

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.

Delete security certificates

```
DELETE /security/certificates/{uuid}
```

Deletes a security certificate.

Related ONTAP commands

- `security certificate delete`

Learn more

- [DOC /security/certificates](#)

Parameters

Name	Type	In	Required	Description
uuid	string	path	True	

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
3735644	Cannot delete server-chain certificate. Reason: There is a corresponding server certificate for it.
3735679	Cannot delete pre-installed server-ca certificates through REST. Use CLI or ZAPI
3735650	Deleting this client-ca certificate directly is not supported. Delete the corresponding root-ca certificate using type <code>root_ca</code> to delete the root, client, and server certificates
3735627	Deleting this server-ca certificate directly is not supported. Delete the corresponding root-ca certificate using type <code>root_ca</code> to delete the root, client, and server certificates
3735589	Cannot delete certificate
3735590	Cannot delete certificate. Failed to remove ssl configuration for the certificate
3735683	Cannot remove this certificate while external key manager is configured

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 security certificates

GET /security/certificates/{uuid}

Retrieves security certificates.

Related ONTAP commands

- `security certificate show`

Learn more

- [DOC /security/certificates](#)

Parameters

Name	Type	In	Required	Description
uuid	string	path	True	Certificate UUID
fields	array[string]	query	False	Specify the fields to return.

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
ca	string	Certificate authority
common_name	string	FQDN or custom common name. Provide on POST when creating a self-signed certificate.
expiry_time	string	Certificate expiration time. Can be provided on POST if creating self-signed certificate. The expiration time range is between 1 day to 10 years.
hash_function	string	Hashing function. Can be provided on POST when creating a self-signed certificate. Hash functions md5 and sha1 are not allowed on POST.
intermediate_certificates	array[string]	Chain of intermediate Certificates in PEM format. Only valid in POST when installing a certificate.

Name	Type	Description
key_size	integer	Key size of requested Certificate in bits. One of 512, 1024, 1536, 2048, 3072. Can be provided on POST if creating self-signed certificate. Key size of 512 is not allowed on POST.
private_key	string	Private key Certificate in PEM format. Only valid for create when installing a CA-signed certificate. This is not audited.
public_certificate	string	Public key Certificate in PEM format. If this is not provided in POST, a self-signed certificate is created.
scope	string	Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster".
serial_number	string	Serial number of certificate.
svm	svm	SVM, applies only to SVM-scoped objects.

Name	Type	Description
type	string	<p>Type of Certificate. The following types are supported:</p> <ul style="list-style-type: none"> • client - a certificate and its private key used by an SSL client in ONTAP. • server - a certificate and its private key used by an SSL server in ONTAP. • client_ca - a Certificate Authority certificate used by an SSL server in ONTAP to verify an SSL client certificate. • server_ca - a Certificate Authority certificate used by an SSL client in ONTAP to verify an SSL server certificate. • root_ca - a self-signed certificate used by ONTAP to sign other certificates by acting as a Certificate Authority. • enum: ["client", "server", "client_ca", "server_ca", "root_ca"]
uuid	string	Unique ID that identifies a certificate.

Example response

```

{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "ca": "string",
  "common_name": "test.domain.com",
  "hash_function": "sha1",
  "intermediate_certificates": {
  },
  "private_key": "-----BEGIN PRIVATE KEY-----
MIIBVAIBADANBgkqhkiG9w0BAQEFAASCAT4wggE6AgEAAkEAu1/a8f3G47cZ6pel
Hd3aONMNkGJ8vSCH5QjicuDm92VtVwkAACEjIoZSLYlJvPD+odL+lFzVQSmkneW7
VCGqYQIDAQABAkAcfNpg6GCQxoneLOghvlUrRotNZGvqpUOEAvHK3X7AJhz5SU4V
an36qvsAt5ghFMVM2iGvGaXbj0dAd+Jg64pxAiEA32Eh9mPtFSmZhTIUMeGcPmPk
qIYCEuP8a/ZLmI9s4TsCIQDWvLQuvjSVfwPhi0TFab5wqAET8X5LBFqtGX5QlUep
EwIgFnqM02Gc4wtLoqa2d4qPkYu13+uUW9hLd4XSd6i/OS8CIQDT3elU+Rt+qIwW
u0cFrVvNYSV3HNzDfS9N/IoxTagfewIgpVxAdE5c2EWbhCUkhN+ZCf38AKewK9TW
lQcDy4L+f14= -----END PRIVATE KEY-----",
  "public_certificate": "-----BEGIN CERTIFICATE-----
MIIBuzCCAWWgAwIBAgIIIFTZBrqZwUUMwDQYJKoZIhvcNAQELBQAWhDENMAsGA1UE
AxMEVEVTVDELMAkGA1UEBhMCMVVMwHhcNMTgwNjA4MTgwOTAxWhcNMTkwNjA4MTgw
OTAxWjAcMQ0wCwYDVQQDEwRURVNUMQswCQYDVQQGEwJVUzBcMA0GCSqGSIb3DQEB
AQUAA0sAMEgCQQDaPvbqUJJFJ6NNTyK3Yb+ytSjJ9aa3yUmYTD9uMiP+6ycjxHWB
e8u9z6yCHsW03ync+dnhE5c5z8wuDAY0fv15AgMBAAGjgYowgYcwDAYDVR0TBAUw
AwEB/zALBgNVHQ8EBAMCAQYwHQYDVR0OBBYEFMJ7Ev/o/3+YNzYh5XNlqqjnw4zm
MEsGA1UdIwREMEKA FMJ7Ev/o/3+YNzYh5XNlqqjnw4zmoSCkHjAcMQ0wCwYDVQQD
EwRURVNUMQswCQYDVQQGEwJVU4IIIFTZBrqZwUUMwDQYJKoZIhvcNAQELBQADQQA
vDovYeyGNknjGI+TVNX6nDbyzf7zUPqnri0KuvObEeybrbPW45sgsnT5dyeE/32U
9Yr6lklkBtVBDTmLnrc -----END CERTIFICATE-----",
  "scope": "svm",
  "serial_number": "string",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "type": "client",
  "uuid": "string"
}

```

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	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

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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