



Manage Azure Key Vaults

ONTAP 9.12.1 REST API reference

NetApp
April 02, 2024

Table of Contents

- Manage Azure Key Vaults 1
 - Security azure-key-vaults endpoint overview 1
 - Retrieve AKVs configured for all clusters and SVMs 12
 - Create an AKV configuration for all clusters and SVMs 24
 - Re-key the external key in the key hierarchy 41
 - Delete an AKV configuration 46
 - Retrieve the AKV configuration for an SVM specified by the UUID 48
 - Update the AKV configuration 57
 - Re-key the internal key in the key hierarchy for an SVM 70
 - Restore keys for an SVM from a configured AKV 73

Manage Azure Key Vaults

Security azure-key-vaults endpoint overview

Overview

Azure Key Vault (AKV) is a cloud key management service (KMS) that provides a secure store for secrets. This feature allows ONTAP to securely store its encryption keys using AKV. In order to use AKV with ONTAP, you must first deploy an Azure application with the appropriate access to an AKV and then provide ONTAP with the necessary details, such as key vault name, application ID so that ONTAP can communicate with the deployed Azure application. The properties "state", "azure_reachability" and "ekmip_reachability" are considered advanced properties and are populated only when explicitly requested.

Examples

Creating an AKV for a cluster using the client secret authentication method

The example AKV is configured at the cluster-scope. Note the *return_records=true* query parameter is used to obtain the newly created key manager configuration.

```

# The API:
POST /api/security/azure-key-vaults

# The call:
curl -X POST 'https://<mgmt-ip>/api/security/azure-key-
vaults?return_records=true' -H 'accept: application/hal+json' -d "{
 \"client_id\": \"client1\", \"tenant_id\": \"tenant1\", \"name\":
 \"https://mykeyvault.azure.vault.net/\", \"key_id\": \"https://keyvault-
test.vault.azure.net/keys/key1/a8e619fd8f234db3b0b95c59540e2a74\",
 \"client_secret\" : \"myclientPwd\" }"

# The response:
{
  "num_records": 1,
  "records": [
    {
      "uuid": "85619643-9a06-11ea-8d52-005056bbeba5",
      "client_id": "client1",
      "tenant_id": "tenant1",
      "name": "https://mykeyvault.azure.vault.net/",
      "key_id": "https://keyvault-test.vault.azure.net/keys/key1",
      "_links": {
        "self": {
          "href": "/api/security/azure-key-vaults/85619643-9a06-11ea-8d52-
005056bbeba5"
        }
      }
    }
  ]
}

```

Creating an AKV for an SVM using the certificate authentication method

The example AKV is configured for a specific SVM. Note the *return_records=true* query parameter is used to obtain the newly created key manager configuration.

```

# The API:
POST /api/security/azure-key-vaults

# The call:
curl -X POST 'https://<mgmt-ip>/api/security/azure-key-
vaults?return_records=true' -H 'accept: application/hal+json' -d "{
 \"svm\": { \"uuid\": \"4f7abf4c-9a07-11ea-8d52-005056bbeba5\" },

```

```
\\"client_id\\": \\"client1\\", \\"tenant_id\\": \\"tenant1\\", \\"name\\":  
\\\"https://mykeyvault.azure.vault.net/\\", \\"key_id\\": \\"https://keyvault-  
test.vault.azure.net/keys/key1\\", \\"client_certificate\\" :  
\\\"MI IQKQIBAZCCD+8GCSqGSIB3DQEHAaCCD+AEgg/cMIIP2DCCBg8GCSqGSIB3DQEBqCCBgAw  
ggX8AgEAMIIIF9QYJKoZIhvcNAQcBMBWGCiqGSIB3DQEMAQYwDgQIWKY7ojViJDYCAggAgIIFyJ  
PjIfmM6yTCKVw5ep2oZLwwvRca8pKhISVjw+WjWngh/f6Py/Ty0CwCjDFUZPsUUdSmk78E7SAz  
0CpQyBwmUuFJQShjZjftHLKRWld3O4sJKB8DzH9Yw1C7En94cyJ1rT4WYovFmeJcmOXx6h+NFH  
c7njtXVsKwxc5BF88K3+3kHdV3WYVdXoeXe7yY/+EjFfjtBryp8ljuielX/NFlh5kowhoj+yxn  
00c1/0OI1iV3mTIOTXD8qrZVp9ZhAxSTRBd5uDyWMfppqxW2L+9vCUU+ZgmRxtU3VsRLOp/T14  
0OP7Sn1Ch2OE0bIrbYYtCpi04QcUtefEJBM1bbTbJPHDAtiO2KIQKviZL4QMZgho9NNGL4MUpIb  
NSzDCbuIC+nNMxfGfs0nPZewY+b43H/tMmnZ8Q4kiCFwrUqbFbflBiPMOaJsS0eQaJhDmzM90Q  
EgbesHWgPreAcfMUCn1+BaqHFLHUxLXDxQix6zYiCatDX6/EKlirRh1TFpmFX2PBd+X6uODhmw  
m4ub9RKj3In8t5qgtN4q/mTBXjAVDAbTIIeGobBRaXGSSXCBC9W/jRed0DRZD9Bm8T/nV39sZN  
ducwZa5ojYTX8fFMA0cfY6IFivXHjB00coHEEGdgCfC0G8vACqLbb+2NuhMJPtR7Iq50iAPUMc  
670Z5ItOTQhyYOZ/KagOtvV8sKPCzeAkcMoHlsm189V79zt1fCJQTVWnaGiMj50rcbskk6vCxh  
DGeU6q1kgvXJKXOYRF8/wIpv8Y7/rEpnGwE/I0ZOxzdIDHXqA53B1zyOVem25ezWCD+kpoH89X  
JssY1NjIMJhjVRED61w/DbSXg2yFu/v3ckGapVvTuyAiz5hWUNfl3pt++da6GoekKnLqtL4G/R  
GXCnebLbXg838dlTGBznoCwGTVxXDeVYaFz8AjI10qYtTMcbN56ya9kK7IHSkrnFX24xQRQOfm  
D0Vob71pjdZ8r1aXKvD/1X2TkYJHoeEHq0nWpU8vwdG/xhv4YgKJGN9qsEZgiTXETUh5gak8e1  
tGNkP+fum+10q105oS+Swna5/eB8eFeJl2Oi48Xi5UapaTRHPFp6kZfPXOu9ceJhILowRIi6gl  
g7FUbmOJcu5OvDIyP9JlyQklw2VtgNlm1QOIvzRenXmy18XnP50NTxx2cIwby8tIcdSn2C2qhj  
8Gk7q8oxVZGiBgtz4BwyzyKkypwm60BBRrHpAKLw6JM5RISeZnYQfIsId0tGgb61go0RJf0sFt  
buvZcSvLI+2Onj8KH1TlmmR4dbuCWE9Ym4sVRmD1D6/f6BoNH0DRg7TJkeFbOadJsNPGzHbKte  
LdaSMGTNUZ3hEDQeomakQMfvCgypbOLxrTTqfbenHRtN+iFNYW0zCUW6EJoAXp+lqFnwQL52I1  
2QxwZike01P2k0GharzAJkXnNaFGnmHIIP6wJrCCSDZwDmr7GI2R5evDlRi17QUg2sulxQV0U8  
zezzwIUgEe/Whf0ngGJv/QcsL2jyri/tSQbUWs4g+yep4S1E3iddhfqSJzI2iKdAE+HLiHGVO1  
z70fGEs06dPLnmh4eoWidgZi9N/SoBy1aT0JpIQ6z6N5ImpFDWu9Y6TWXUg1iyOIXGsXIQVIgU  
NoB5Ru/ApDxpYpFLk0fh9k9OnEWK5Im33puOQKLno1uwrOmdBG8+x1EY8wc9FvkHGH0Zh4Hydi  
CVUcYSdiGWUxVmgm4OgyiYzcpB+Ar2dzikGc4pBg8fa1a1HN5Q3TK3w4h/HeOulm4vWOYuVO1  
H93ILGP6Pwfkgug+1Tam6+8yD0W5meiz0UIZR8TF/9gDb4+4wTFnPgwfTrggEauA8tt8uJtiyBC  
rYexgZTXIZGTUj/86KXQaJKCreRr/kqWJOWqkNW4CGUVzw7LiI+sArOZqUp/TsxnbcNC73XCMN1  
PsnByb2zCeK13V26Crl84U9sDuqQTRaIse01MN9AAjpa2QWEwggnBBgkqhkiG9w0BBWGGgmy  
BIIJrjCCaowggmmBgsqhkig9w0BDAoBAqCCCW4wgg1qMBWGCiqGSIB3DQEMAQMwDgQIEjm88b  
1+pnkCAGgABIIJSDD3P+vn11So1mQvmYgZVfV37T3KpurJvMxQScPvalWiF7Q1Iwasf/+N0hKK  
Nr2j/aGZLunLkaG6mLPeBP212LCwnUxDu5kYffVVE90WX/bXewbYQribwFNkNhUrSgen8BfhnR  
lvDrzbBLoHIvDrUFszSVBCYh31Vwgu8p9SjC8K/XlumcLdjSFko85XpoK23euhowjWH+X0kRoY  
GzorcdNE8z03BKvfr61W2XWzTSaWQ6eZHG6UrnX5Fe/w50U9tMIi3BCCCqgapUHVdmHqKkmWL  
ikX8LssUcn30JVeK2aJ9v4Y06CoegKAMVDS0tVSov3KbGC3GNX6lgHu4y1LOZP1PLfPXb0wDH  
qavlXK3zpHl8sIRZuX3HXSdEdenHYAkSV/IQZ89h+CZUkf0nu/og8eoA8ATDA5g7fj3HXpQ6cY  
drUBaHc7ruxHOiWR0GcT4XK4TTz7zZTO1wWPViprUo6ayw0dYZSG22MeDA027YirM044Ifosn9  
CsqnNLZoOwvA2ao4ippDoBRqv5Hv6n0I3fOAYS5nPq3jJtKQ5neqUYo0MrAkoKHo0h6zn0Bfvi  
syB88aM9N0mPD76ykbAERq7151biKba2tk8bb9dy/sJmk2ojM/D/W1YtrNL4im6azL2kVN5eiC  
hxCof33/RuRpXfGR8YNeJTl7bq42wL70QKDBRoG1TPcLqdVqz74oshlRspfqvZsbsUatbASbt2  
T0YG4zfgfGh7sb2ezyougVvzdp77wAJ6n39dc/ZLDdYDzFkQb07984y8LlhIM1AcwFcMh43gWp  
6A8CJ02174ednirSqSVOPZ7K9dRw6Y0X8MB4/WGzEcvFeHYIGLBCXi1sBY5wjWnbeuhlWLiSkM  
DQRB6oGOvF7bJsilKx5PwgWbbqw8KUSuU01skbMAA5T8Hkm40iStf2a78E0zIKLGZg7yu9FDII
```

tWYWOkG96MXEBAdOuH+wWYmaEexh51ONrffwKDuDMZ7MO20TTEQU8oQdjRRoAofXvTcj22GSM
TY6XleskZX2ZKxSQdD1tCtkjGRKHSTYza3zLHbBiJTIJw4z6sw9FyTTApG66UAKntiMa1r9nqT
TNaxRWEXMEQVRLzAL2F9aqjgW65xrbYXu/J9Y/SYtCYbX2SRA/JkQ+Y8F68K0oS1pvK1p5/FcE
DvprTND54lf+aj3HNWuK5wOsrpBhMlb2IfLuK/9QwPh9IC/RhHRfimyTPRXAf73cehNdp8DpKw
Lm+jr30vazFwICpvSbi6Etb6GXfPkKaX7ztpQBqG92m2/0g3LWfPtilzwrPHPBz8y1qQMU268D
oo8YvWtI4KGaDAFb6XQhR6t6mqoq/3IP6/g//PZVEnSyUVsPLDJ1LF9fiOwTbMZnaiscKv8SGE
s//B9JkKrdsRrQRZcnnPjJnJLILblRVAZGuXpSKSYVPzYmOjUx3sSeLSiPoSocqRIJ0X3s4ED0
92W3tr4ZXK3fnkFyrIVtRJsB3k/2smiQ6Pc1VuKHh1yTzYjXKRQcDaY3EDP9IWftjiUfZQoZci
jMwt6YXim23m2aN2Ed8qIedikR6OjFHE4Kus/2yegTszSs5CrM7NamKWzeIeNNth/cTcmT++GD
umsGNTBAsHHSq1KYpqLi4GKLHzU7WNCQRdAcIDEvMZH/CH1mZK7bzb9z038rPf/D5WZrcK1ttD
5BjTJjj7GerS0xLkvYIk1AJqurjMdWYmQtT4JAHF90/zRKqFFVpSiW074brQ+PfaLI5C+TwoX5
lYD+R91A0qyGKIkJFITa8hZFY+Up+rSuREqnpAvdAVL9/gLPF6I+5+D+sVBSGRbw2rFVRbCHdwa
TQcAVPeJJy0f/+sOs/PXoejr3siORpf8iLLYOaziGYf1EtunFcCLj8PEOznaUyouJ+lm9YKPBS
LULC/sVvy6XUARyfJfQ0Ag31YXpJeWPbORxVP/VCm8d/sNjWTQXGN/IjNZaZulixNgq5nRkPBK
wF23ZUYG4pLGPgROLup9nLSgEbpiDmN1Gq/IHSfI/8HpG/yRAoCdqUdre3yL/f9caj8RBBHRYb
bfRxtYQ9u2vsrqoloz7F+Mu+kjuc9BxCMvJ7JaKwvQJckAkzTo6t10t6MzwiqJ7Au+2oOJ2Ukb
/985+TFGS219fmqWfwisOfpuvSkjRj8vIDBBm9itKIS+pVpfz+Mg7kl3WmkUrgF3yjTH5/C51u
aSzK2KeEVoWPx/Ps2CX7ATo6AsETp8Na38dT6d+Dm4WM4sBieKt/yOEFhiBNkgpVKAqawKRvLW
3U73OIKC8VLFhnnU+ogGxcUq5mZXvMbNDIaU2LvtmtPPo/qL0bOYu76TKc1ZX0R6AXkeImQgRP
sdeXPPANTw31a585ozbYxUXRfEIEkMkcv3eSGnPCVesbxxd1SaIJe2j7H9MbHdjYkeFQuECnUh
Kxg63BVP1/qAEIO5+OKBzM7ctuP8apeGW1iHAueKzJXc5IeFS/3iwkfdLRkrgzBenILOIINo3C
oGSvn95Z8+LhNSopyqt3uB4rQksUYIwXgkfrEVYujCO0T5dSkk5j10X7W1Dm4DHZVLJH+GtL6v
9A6xFJNDQfQF0hS+w1XkTkMq7pUiX+Qohf8QRJZEyU5VWo2CesR63j1MFpkB3xybpbjt8oI47X
C20GEn3uCjwMwq/3K4ibHnqi16pPPRgI/u3R9TVfvOC2e0xg1lrFG6cKUfoguUaXoxHqP1KKjUw
23bpd9L09LzSDdSHcoDPokWzDee0ZP/Z6VH3rdjQR71kw4VBeT8nKfLP2dGBd0tpWDQhCFK7I9
axxxthnv0v09x/J7jhyoLrt5e8lMEfrqtnMwdqjFgYVEQndthZ+9/XvfNk6f5MD8fDheMuvbNT
hduFSZEcZCL1W4GWKneVji4wdBrV3aCrzAzxy0H7y7nnkyCEvac503UDtr1bk1VJIVsYfYrN2S
2DPbp3H2E8r/n6jfBilwFyp3JTJvnRqQTcYHXDieW8Njq46JO606wsPwKQTKMfHGxxTRJdRe5y
vJD54xvFWw1YEJ/Q2c8cr1NNXEN32e5psfIJ7o48k6bsiyXnbHKSjK781Z5h8Hc3FbUF2U2p5J
qLwcD7+bknEunsbWSC37imk7oweF3hMhKRMm9iYJ8tpxMRcWCot7ador+Y2fYWBSu/bwXwcRI0
8TElMCMGCSqGSIB3DQEJFTEWBBRymjnEbJmrRwh4sRnwudfsQP6KDAxMCEwCQYFKw4DAhFAA
QU+YFhgKEYjfxN/cL70yRrJSHFgUwECHeCTQnUEU0BAgIIAA==\" }"

The response:

```
{  
  "num_records": 1,  
  "records": [  
    {  
      "uuid": "024cd3cf-9a08-11ea-8d52-005056bbeba5",  
      "svm": {  
        "uuid": "4f7abf4c-9a07-11ea-8d52-005056bbeba5",  
        "name": "vs0"  
      },  
      "client_id": "client1",  
      "tenant_id": "tenant1",  
      "name": "https://mykeyvault.azure.vault.net/",  
    },  
  ],  
}
```

```

    "key_id": "https://keyvault-test.vault.azure.net/keys/key1",
    "_links": {
      "self": {
        "href": "/api/security/azure-key-vaults/024cd3cf-9a08-11ea-8d52-005056bbeba5"
      }
    }
  }
]
}

```

Retrieving the AKVs configured for all clusters and SVMs

The following example shows how to retrieve all configured AKVs along with their configurations.

```

# The API:
GET /api/security/azure-key-vaults

# The call:
curl -X GET 'https://<mgmt-ip>/api/security/azure-key-vaults?fields=*'

# The response:
{
  "records": [
    {
      "uuid": "024cd3cf-9a08-11ea-8d52-005056bbeba5",
      "scope": "svm",
      "svm": {
        "uuid": "4f7abf4c-9a07-11ea-8d52-005056bbeba5",
        "name": "vs0"
      },
      "client_id": "client1",
      "tenant_id": "tenant1",
      "name": "https://mykeyvault.azure.vault.net/",
      "key_id": "https://keyvault-test.vault.azure.net/keys/key1",
      "authentication_method": "client_secret",
      "_links": {
        "self": {
          "href": "/api/security/azure-key-vaults/024cd3cf-9a08-11ea-8d52-005056bbeba5"
        }
      }
    },
    {

```

```
"uuid": "85619643-9a06-11ea-8d52-005056bbeba5",
"scope": "cluster",
"client_id": "client1",
"tenant_id": "tenant1",
"name": "https://mykeyvault.azure.vault.net/",
"key_id": "https://keyvault-test.vault.azure.net/keys/key1",
"authentication_method": "certificate",
"_links": {
  "self": {
    "href": "/api/security/azure-key-vaults/85619643-9a06-11ea-8d52-
005056bbeba5"
  }
}
],
"num_records": 2,
"_links": {
  "self": {
    "href": "/api/security/azure-key-vaults?fields=*"
  }
}
}
```

Retrieving the AKV configured for a specific SVM

The following example retrieves a configured AKV for a specific SVM.


```
# The API:
GET /api/security/azure-key-vaults

# The call:
curl -X GET 'https://<mgmt-ip>/api/security/azure-key-vaults/85619643-9a06-11ea-8d52-005056bbeba5?fields=*'

# The response:
{
  "uuid": "85619643-9a06-11ea-8d52-005056bbeba5",
  "scope": "cluster",
  "client_id": "client1",
  "tenant_id": "tenant1",
  "name": "https://mykeyvault.azure.vault.net/",
  "key_id": "https://keyvault-test.vault.azure.net/keys/key1",
  "authentication_method": "client_secret",
  "_links": {
    "self": {
      "href": "/api/security/azure-key-vaults/85619643-9a06-11ea-8d52-005056bbeba5"
    }
  }
}
```

Retrieving the advanced properties of an AKV configured for a specific SVM

The following example retrieves the advanced properties of a configured AKV for a specific SVM.

```
# The API:
GET /api/security/azure-key-vaults

# The call:
curl -X GET 'https://<mgmt-ip>/api/security/azure-key-vaults/85619643-9a06-11ea-8d52-005056bbeba5?fields=state,azure_reachability,ekmip_reachability'

{
  "uuid": "fc0b7718-18c9-11eb-88e3-005056bb605d",
  "name": "https://10.234.237.18",
  "state": {
    "cluster_state": true,
    "message": "",
    "code": "0"
  },
}
```

```
"azure_reachability": {
  "reachable": true,
  "message": "",
  "code": "0"
},
"ekmip_reachability": [
  {
    "node": {
      "uuid": "d208115f-7721-11eb-bf83-005056bb150e",
      "name": "node1",
      "_links": {
        "self": {
          "href": "/api/cluster/nodes/d208115f-7721-11eb-bf83-005056bb150e"
        }
      }
    },
    "reachable": true,
    "message": "",
    "code": "0"
  },
  {
    "node": {
      "uuid": "e208115f-7721-11eb-bf83-005056bb150e",
      "name": "node2",
      "_links": {
        "self": {
          "href": "/api/cluster/nodes/e208115f-7721-11eb-bf83-005056bb150e"
        }
      }
    },
    "reachable": true,
    "message": "",
    "code": "0"
  }
],
"_links": {
  "self": {
    "href": "/api/security/azure-key-vaults/fc0b7718-18c9-11eb-88e3-005056bb605d"
  }
}
}
```

Updating the client secret of a specific SVM

The following example updates the client secret of a configured AKV for a specific SVM.

```
# The API:
PATCH /api/security/azure-key-vaults

# The call:
curl -X PATCH 'https://<mgmt-ip>/api/security/azure-key-vaults/85619643-9a06-11ea-8d52-005056bbeba5' -d "{ \"client_secret\": \"newSecret\" }"
```

Updating the client certificate and key of a specific SVM

The following example updates the client certificate and key of a configured AKV for a specific SVM.

```
# The API:
PATCH /api/security/azure-key-vaults

# The call:
curl -X PATCH 'https://<mgmt-ip>/api/security/azure-key-vaults/85619643-9a06-11ea-8d52-005056bbeba5' -d "{ \"client_certificate\":
\"MIIQKQIBAZCCD+8GCSqGSIb3DQEHAaCCD+AEgg/cMIIP2DCCBg8GCSqGSIb3DQEHBqCCBgAw
ggX8AgEAMIIIF9QYJKoZIhvcNAQcBMBwGCiqGSIb3DQEMAQYwDgQIWKY7ojViJDYCAggAgIIFyJ
PjIfmM6yTCKVw5ep2oZLwvRca8pKhISVjw+WjWngh/f6Py/Ty0CwCjDFUZPsUUdSmk78E7SAz
0CpQyBwmUuFJQShjZjftHLKRWld3O4sJKB8DzH9Yw1C7En94cyJ1rT4WYoVFmeJcmOXx6h+NFH
c7njtXVsKwxc5BF88K3+3kHdV3WyVdXoeXe7yY/+EjFfjtBryp8ljuielX/NFlh5kowhoj+yxn
00c1/0OI1iV3mTIOTXD8qrZVp9ZhAxSTRBd5uDuYWMfppqxW2L+9vCUU+ZgmRxtU3VsRLOp/T14
0OP7Sn1Ch2OE0bIrbYYtCpi04QcUtfeJBM1bbTbJPHDAtiO2KIQKviZL4QMZgho9NNgLMUpIb
NSzDCbuIC+nNMxfGfs0nPZewY+b43H/tMmnZ8Q4kiCFwrUqbFbflBiPMOaJsS0eQaJhDmzM90Q
EgbesHWgPreAcfMUCN1+BaqHFLHUxLXDxQix6zYiCatDX6/EKlirRh1TFpmFX2PBd+X6uODhmw
m4ub9RKj3In8t5qgtN4q/mTBXjAVDAbTIIIEgobBRaXGSSXCbc9W/jRed0DRZD9Bm8T/nV39sZN
ducwZa5ojYTX8fFMA0cfY6IFivXHjB00coHEEGdgCfC0G8vACqLbb+2NuhMJPtR7Iq50iAPUMc
670Z5ItOTQhyYOZ/KagOtvV8sKPCzeAkcMoHlsm189V79zt1fCJQTVWnaGiMj5Orcbsskk6vCxh
DGeU6q1kgvXJKXOYRF8/wIpv8Y7/rEpnGwE/I0ZOXzdIDHXqA53B1zyOVem25ezWCD+kpoH89X
JssY1NjIMJhjVRED61w/DbSXg2yFu/v3ckGapVvTuyAiz5hWUNfl3pt++da6GoekKnLqtL4G/R
GXCnebLbXg838dlTGBznoCwGTVxXDeVYafz8AjI10qYtTMcbN56ya9kK7IHSkrnFX24xQRQOfm
D0Vob71pjdZ8r1aXKvD/1X2TkYJHoeEHq0nWpU8vwdG/xhv4YgKJGN9qsEZgiTXETUh5gak8e1
tGNkP+fum+1Oq1O5oS+Swna5/eB8eFeJ12Oi48Xi5UapaTRHPFp6kZfPXOu9cEjhILowRIi6gl
g7FUBmoJcu5OvDIyP9JlyQklw2VtgNlm1QOIvzRenXmy18XnP50NTxx2cIwby8tIcdSn2C2qhj
8Gk7q8oxVZGiBgtz4BwyzyKkypwm60BBRrHpAKLw6JM5RISeZnYQfIsId0tGgb61go0RJf0sFt
buvZcSvLI+2Onj8KH1TlmmR4dbuCWE9Ym4sVRmD1D6/f6BoNH0DRg7TJkEFbOadJsNPGzHbKte
LdaSMGTNUZ3hEDQeomakQMfvCgypbOLxrTTqfbenHRtN+iFNYW0zCUW6EJoAXp+lqFnwQL52I1
2QxwZike01P2k0GharzAJkXnNaFGnmHIIP6wJrCCSDZwDmr7GI2R5evDlRi17QUg2sulxQV0U8
zezzwIUgEe/Whf0ngGJv/QcsL2jyri/tSQbUWs4g+yep4S1E3iddhfqSjzI2iKdAE+HLiHGVO1
```

z70fGEsO6dPLnmh4eoWidgZi9N/SoBy1aT0JpIQ6z6N5ImPfdWu9Y6TWXUg1iyOIXGsXIQVIgU
NoB5Ru/ApDxpYpFLk0fh9k9OnEWK5Im33puOQKLnoluwRombG8+x1EY8wc9FvkHGH0Zh4Hydi
CVUcYSdiGWUxVmgm4OgyiYzcpB+Ar2dzikGc4pBg8fa1a1HN5Q3TK3w4h/HeOULm4vWOYuVO1
H93ILGP6Pwfkgug+1Tam6+8yD0W5meiz0UIZR8TF/9gDb4+4wTFnPgwfTrggEauA8tt8uJtIyBC
rYexgZTXIZGTUj/86KXQaJKCreRr/kqWJOWqkNW4CGUVzw7LiI+sArOZqUp/TsxnbcNC73XCMN1
PsnByb2zCeK13V26Cr184U9sDuqQTRaIse01MN9AAjpa2QWEwggnBBgkqhkiG9w0BBwGgggmy
BIIJrjCCCaowggmmBgsqhkig9w0BDAoBAqCCCW4wgg1qMBwGCiqGSib3DQEMAQMwDgQIEjm88b
1+pnkCaggABIIJSDD3P+vn11SolmQvmYgZVfV37T3KpurJvMxQScPvalWiF7Q1Iwasf/+N0hKK
Nr2j/aGZLunLkaG6mLPeBP212LCwnUxDu5kYffVVE90WX/bXewbYQribwFNkNhUrSgen8BfhnR
lvDrzbBLoHIvDrUFszSVBCYh31Vwgu8p9SjC8K/XlumcLdjSFko85XpoK23euhowjWH+X0kRoY
GzorcdNE8z03BKvfR61W2XWzTSaWQ6eZHG6UrnX5Fe/w50U9tMIi3BCCCqgapUHVdmHqKkMWL
ikX8LssUcn30JVeK2aJ9v4Y06CoegKAMVDS0tVSOv3KbGC3GNX6lgHu4y1LOZP1PLfPXb0wDH
qavlXK3zpHl8sIRZuX3HXSdEdenHYAkSV/IQZ89h+CZUkf0nu/og8eoA8ATDA5g7fj3HXpQ6cY
drUBaHc7ruxHOiWR0GcT4XK4TTz7zZT01wWPViprUo6ayw0dYZSG22MeDA027YirM044Ifosn9
CsqnNLZoOWvA2ao4ippDoBRqv5Hv6n0I3fOAys5nPq3jJtKQ5neqUYo0MrAkoKHo0h6zn0Bfvi
syB88aM9N0mPD76ykbAERq7151biKbA2tk8bb9dy/sJmk2ojM/D/W1YtrNL4iM6azL2kVN5eiC
hxCoF33/RuRpXfGR8YNeJTl7bq42wL70QKDBRoG1TPcLqdVqz74oshlRspfqvZsbsUatbASBt2
T0YG4zfgfGh7sb2ezyougVvzdp77wAJ6n39dc/ZLDdYDzFkQb07984y8LlHIM1AcwFcMh43gWp
6A8CJ02174ednirSqSVOPZ7K9dRw6Y0X8MB4/WGzEcvFeHYIGLBCXi1sBY5wjWnbeuhlWLiSkM
DQRB6oGOvF7bJsilKx5PwgWbbqw8KUSuU01skbMAA5T8Hkm4OISTf2a78E0zIKLGZg7yu9FDII
tWYWOkg96MXEBAdOuH+wWYmaEexh51ONrffWkDuDMZh7MO20TTEQU8oQdjRRoAofXvTcj22GSM
TY6XleskZX2ZKxSQdD1tCtkjGRKHSTYza3zLHbBiJTIJw4z6sw9FyTTApG66UAkNtiMalr9nqT
TNaxRWEXMEQVRLzAL2F9aqjgW65xrbYXu/J9Y/SYtCyBx2SRA/JkQ+Y8F68K0oS1pvK1p5/FcE
DvprTNDS41f+aj3HNWuK5wOsrpBhM1b2IfluK/9QwPh9IC/RhHRfimyTPRXAf73cehNdp8DpKw
Lm+jr30vazFwICpvSbi6Etb6GXfPkKaX7ztpQBqG92m2/0g3LWfPtilzwrPHPBz8y1qQMU268D
oo8YvWtI4KGAADFb6XQhR6t6mqoq/3IP6/g//PZVENsYUVsPLDJLLF9fiOWtBMZnaiscKv8SGE
s//B9JkKrdSrrQRZcnnPjJnJLILblRVAZGuXpSKSYVPzYmOjUx3sSeLSiPoSOcqRIJ0X3s4ED0
92W3tR4ZXK3fnkFyrIVtRJsB3k/2smiQ6Pc1VuKHh1yTzYjXKRQcDaY3EDP9IWFtjiUfZQoZci
jMwt6YXim23m2aN2Ed8qIedikR6OjFHE4Kus/2yegTszSs5CrM7NamKWzeIeNNth/cTcmT++GD
umsGNTBAsHHSq1KYpqLi4GKLHzU7WNCQRdAcIDEvMZH/CH1mZK7bzb9z038rPf/D5WZrcK1ttD
5BjTJjj7GerS0xLkvYiklAJqurjMdWYmQtT4JAHF90/zRKqFFVpSiW074bRQ+PfaLI5C+TwoX5
lYD+R91A0qyGKIkiFITa8hZFY+Up+rSuREqnpAvdAVL9/gLpF6I+5+D+sVBSGRbw2rFVRbCHdwa
TQcAVPeJJy0f/+sOs/PXoejr3siORpf8iLLYOaziGYf1EtunFcCLj8PEOznaUyouJ+lm9YKPBS
LULC/sVvy6XUARyFjfq0Ag31YXpJeWPBORxVP/VCm8d/sNjWTQXGN/IjnZaZulixNgq5nRkPBK
wF23ZUYG4pLGpGROLup9nLSgEbpiDmN1Gq/IHSfi/8HpG/yRAoCdqUdre3yL/f9caj8RBBHRYb
bfrxtyQ9u2vsrqo1oZ7F+Mu+kjuc9BxCMvJ7JaKwvQJckAkzTo6t10t6MzwiqJ7Au+2oOJ2Ukb
/985+TFGS219fmqWfwisOfpuvSkjRj8vIDBBm9itKIS+pVpfz+Mg7kl3WmkUrgF3yjTH5/C51u
aSzK2KeEVOwPx/Ps2CX7ATo6AsETp8Na38dT6d+Dm4WM4sBieKt/yOEFhiBNkqpVKAqawKRvLW
3U730IKC8VLfhhnU+ogGxcUq5mZXvMbNDIaU2LvtmtPPo/qL0bOYu76TKc1ZX0R6AXkeImQgRP
sdeXPPANTW31a585oZbYxUXRfEIEkMkcv3eSGnPCVesbxxd1SaIJe2j7H9MbHdjYkeFQuECnUh
Kxg63BVP1/qAEIO5+OKBz7ctuP8apeGW1iHAueKzJXc5IeFS/3iwkfdLRkrzBenILOIINo3C
oGSvn95Z8+LhNSopyqt3uB4rQksUYIwXgkfrEVYujCO0T5dSkk5j10X7W1Dm4DHZVLJH+GtL6v
9A6xFJNDQfQF0hS+wLXkTkMq7pUiX+Qohf8QRJZEYU5VWo2CesR63j1MFpkB3xybpbjt8oI47X
C20GEn3uCjwMwq/3K4ibHnqi16pPPRgI/u3R9TVfvOC2e0xg1lrFG6cKUFogUaXoxHqP1KKjUw
23bpd9L09LzSDdSHcoDPokWzDee0ZP/Z6VH3rdjQR71kw4VBeT8nKfLP2dGBd0tpWDQhCFK7I9
axxxthnv0v09x/J7jhyoLrt5e8lMEfrqtnMwDqjFgYVEQndthZ+9/XvfNk6f5MD8fDheMuvbNT

```
hduFSZEcZCLlW4GwKneVji4wdBrV3aCrzAzxy0H7y7nnkyCEvac503UDtr1bk1VJIVsYfYrN2S
2DPbp3H2E8r/n6jfBilwFyp3JTJvnRqQTcYHXDieW8Njq46JO6O6wsPwKQTKMfHGxxTRJdRe5y
vJD54xvFWw1YEJ/Q2c8cr1NNXEN32e5psfIJ7o48k6bsiyXnbHKSjK781Z5h8Hc3FbUF2U2p5J
qLwcD7+bknEunsbWSC37iMk7oweF3hMhKRMm9iYJ8tpxMRcWCot7ador+Y2fYWBSu/bwXwcRI0
8TElMCMGCSqGSIB3DQEJFTEWBBRymjnEbJmrRwh4sRnwudfsQP6KDAxMCEwCQYFKw4DAhoFAA
QU+YFhgKEYjfxN/cL70yRrJSHFgUwECHeCTQnUEU0BAgIIAA==\" }"
```

Deleting an AKV configuration for a specific SVM

The following example deletes a configured AKV for a specific SVM.

```
# The API:
DELETE /api/security/azure-key-vaults

# The call:
curl -X DELETE 'https://<mgmt-ip>/api/security/azure-key-vaults/85619643-
9a06-11ea-8d52-005056bbeba5'
```

Restoring the keys for a specific SVM configured with an AKV

The following example restores all the keys of a specific SVM configured with an AKV.

```
# The API:
POST security/azure-key-vaults/{uuid}/restore

# The call:
curl -X POST 'https://<mgmt-ip>/api/security/azure-key-vaults/85619643-
9a06-11ea-8d52-005056bbeba5/restore'

# The response:
{
  "job": {
    "uuid": "6ab6946f-9a0c-11ea-8d52-005056bbeba5",
    "_links": {
      "self": {
        "href": "/api/cluster/jobs/6ab6946f-9a0c-11ea-8d52-005056bbeba5"
      }
    }
  }
}
```

Rekeying the internal key for a specific SVM configured with an AKV

The following example rekeys the internal key of a specific SVM configured with an AKV.

```
# The API:
POST security/azure-key-vaults/{uuid}/rekey-internal

# The call:
curl -X POST 'https://<mgmt-ip>/api/security/azure-key-vaults/85619643-9a06-11ea-8d52-005056bbeba5/rekey-internal'

# The response:
{
  "job": {
    "uuid": "6ab6946f-9a0c-11ea-8d52-005056bbeba5",
    "_links": {
      "self": {
        "href": "/api/cluster/jobs/6ab6946f-9a0c-11ea-8d52-005056bbeba5"
      }
    }
  }
}
```

Retrieve AKVs configured for all clusters and SVMs

GET /security/azure-key-vaults

Introduced In: 9.8

Retrieves AKVs configured for all clusters and SVMs.

Related ONTAP commands

- `security key-manager external azure show`
- `security key-manager external azure check`

Parameters

| Name | Type | In | Required | Description |
|----------------|--------|-------|----------|--------------------------|
| proxy_username | string | query | False | Filter by proxy_username |
| svm.uuid | string | query | False | Filter by svm.uuid |

| Name | Type | In | Required | Description |
|------------------------------|---------|-------|----------|--|
| svm.name | string | query | False | Filter by svm.name |
| ekmip_reachability.message | string | query | False | Filter by ekmip_reachability.message |
| ekmip_reachability.code | string | query | False | Filter by ekmip_reachability.code |
| ekmip_reachability.reachable | boolean | query | False | Filter by ekmip_reachability.reachable |
| ekmip_reachability.node.uuid | string | query | False | Filter by ekmip_reachability.node.uuid |
| ekmip_reachability.node.name | string | query | False | Filter by ekmip_reachability.node.name |
| scope | string | query | False | Filter by scope |
| proxy_type | string | query | False | Filter by proxy_type |
| authentication_method | string | query | False | Filter by authentication_method • Introduced in: 9.10 |
| uuid | string | query | False | Filter by uuid |
| state.available | boolean | query | False | Filter by state.available |
| state.message | string | query | False | Filter by state.message |
| state.code | string | query | False | Filter by state.code |
| tenant_id | string | query | False | Filter by tenant_id |
| name | string | query | False | Filter by name |

| Name | Type | In | Required | Description |
|------------------------------|---------------|-------|----------|--|
| key_id | string | query | False | Filter by key_id |
| azure_reachability.reachable | boolean | query | False | Filter by azure_reachability.reachable |
| azure_reachability.message | string | query | False | Filter by azure_reachability.message |
| azure_reachability.code | string | query | False | Filter by azure_reachability.code |
| proxy_port | integer | query | False | Filter by proxy_port |
| proxy_host | string | query | False | Filter by proxy_host |
| client_id | string | query | False | Filter by client_id |
| fields | array[string] | query | False | Specify the fields to return. |
| max_records | integer | query | False | Limit the number of records returned. |
| 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 |

| Name | Type | In | Required | Description |
|----------------|---------------|-------|----------|---|
| return_records | boolean | query | False | The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1 |
| 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[azure_key_vault] | |

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "authentication_method": "client_secret",
    "azure_reachability": {
      "code": "346758",
      "message": "AKV service is not reachable from all nodes -
reason."
    },
    "client_certificate":
"MIIQKQIBAzCCD+8GCSqGSIB3DQEHAaCCD+AEgg/cMIIP2DCCBg8GCSqGSIB3DQEHbqCCBg
AwggX8AgEAMIIF9QYJKoZIhvcNAQcBMBwGCiqGSIb3DQEMAQYwDgQIWKY7ojViJDYCAggAg
IIFyJPjIfmM6yTCKVw5ep2oZLwvwRca8pKhISVjw+WjWngh/f6Py/Ty0CwCjDFUZPsUUdSm
k78E7SAz0CpQyBwmUuFJQShjZjftHLKRWld3O4sJKB8DzH9Yw1C7En94cyJ1rT4WYoVFmeJ
cmOXx6h+NFHc7njtXVsKwxc5BF88K3+3kHdV3WyVdXoeXe7yY/+EjFfjtBryp81juielX/N
Flh5kowhoj+yxn00c1/0OI1iV3mTIOTXD8qrZVp9ZhAxSTRBd5uDyWMfppqxW2L+9vCUU+Z
gmRxtU3VsRLOp/T140OP7Sn1Ch2OE0bIrbYYtcpi04QcUtfeJBMlbbTbJPHDAti02KIQkvi
ZL4QMZgho9NNg14MUpIbNSzDCbuIC+nNMXfgfs0nPZewY+b43H/tMmnZ8Q4kiCFwrUqbFbf
lBiPMOaJsS0eQaJhDmzM90QEgbesHWgPreAcfMUcN1+BaqHFLHUxLXDxQix6zYiCatDX6/E
KlirRh1TFpmFX2PBd+X6uODhmwm4ub9RKj3In8t5qgtN4q/mTBXjAVDAbTIIIEgobBRaXGSS
XCbc9W/jRed0DRZD9Bm8T/nV39sZNducwZa5ojYTX8fFMA0cfY6IFivXHjB00coHEEGdgCf
C0G8vAcqLbb+2NuhMJPtR7Ig50iAPUMc670Z5ItOTQhyYOZ/KagOtvV8sKPCzeAkcMoHlsm
189V79zt1fCJQTVWnaGiMj5Orcbskk6vCxdGGeU6q1kgvXJKXOYRF8/wIpv8Y7/rEpnGwE/
I0ZOXzdIDHXqA53B1zyOVem25ezWCD+kpoH89XJssY1NjIMJhjVRED61w/DbSXg2yFu/v3c
kGapVvTuyAiz5hWUNfl3ptda6GoekKnLqtL4G/RGXCnebLbXg838dlTGBznoCwGTVxXDeVY
afz8AjI10qYtTmcbN56ya9kK7IHSkrnFX24xQRQOfmD0Vob71pjdZ8r1aXKvD/1X2TkYJHo
eEHq0nWpU8vwdG/xhv4YgKJGN9qsEZgiTXETUh5gak8eltGNkP+fum+10q105oS+Swna5/e
B8eFeJ12Oi48Xi5UapaTRHPFP6kZfPXOu9cEjhILowRIi6glg7FUbmoJcu50vDIyP9JlyQk
lw2VtgNlm1QOIvzRenXmy18XnP50NTxx2cIwby8tIcdSn2C2qhj8Gk7q8oxVZGiBgtz4Bwy
zyKkypwm60BBRrHpAKLw6JM5RISeZnYQfIsId0tGgb61go0RJf0sFtbuvZcSvLI+2Onj8KH
1TlmMR4dbuCWE9Ym4sVRmD1D6/f6BoNH0DRg7TJkEFbOadJsNPGzHbKteLdaSMGTNUZ3hED
```

QeomakQMfvCgypbOLxrTTqfbenHRtN+iFNyW0zCUW6EJoAXp+lqFnwQL52I12QxwZike01P
2k0GharzAJkXnNaFGnmHIIP6wJrCCSDZwDmr7GI2R5evDlRi17QUg2sulxQV0U8zezzwIUg
Ee/Whf0ngGJv/QcsL2jyri/tSQbUWs4g+yep4S1E3iddhfqSJzI2iKdAE+HLiHGVO1z70fG
Es06dPLnmh4eoWidgZi9N/SoBy1aT0JpIQ6z6N5ImpFDWu9Y6TWXUg1iyOIXGsxIQVIgUNo
B5Ru/ApDxpYpFlk0fH9k9OnEWK5Im33puOQKLno1uwrOmdbG8+x1EY8wc9FvkHGH0Zh4Hyd
iCVUcYSdiGWUxVmgm4OgyiYzcpB+Ar2dzikGc4pBg8fa1a1HN5Q3TK3w4h/HeOUlMA4vWOY
uV01H93ILGP6Pwfkg+1Tam6+8yD0W5meiz0UIZR8TF/9gDb4+4wTFnPwgfTrggEauA8tt8
uJtiyBCrYexgZTXIZGTUj/86KXQaJKCreRr/kqwJOWqkNW4CGUVzw7LiI+sArOZqUp/Tsxn
bNC73XCMN1PsnByb2zCeK13V26Crl84U9sDuqQTJRaIse01MN9AAjpa2QWEwggNBbgkqkhi
G9w0BBwGgggmyBIIJrjCCCaowggmmBgsqhkig9w0BDAoBAqCCCW4wgg1qMBwGCiqGSib3DQ
EMAQMwDgQIEjM88b1+pnkCAggABIIJSDD3P+vn11SolmQvmYgZVfV37T3KpurJvMxQScPva
lWiF7Q1Iwasf/+N0hKKNr2j/aGZLunLkaG6mLPeBP212LCwnUxDu5kyffVVE90WX/bXewBY
QribwFNkNhUrSgen8BfhnRlvDrzBLoHIvDrUFszSVBCYh31Vwgu8p9SjC8K/XluncLdjSF
ko85XpoK23euhowjWH+X0kRoYGzorcdNE8z03BKvfr61W2XWzTSaWQ6eZHG6UrnX5Fe/w5
0U9tMIi3BCCCqgapUHVdmHqKkmWLiKX8LssUcN30JvekM2aJ9v4YO6CoegKAMVDS0tVSov3
KbGC3GNX6lgHu4y1LOZPlPlfPxb0wDHqavlXK3zph18sIRZuX3HXSdEdenHYAkSV/IQZ89h
+CZUkf0nu/og8eoA8ATDA5g7fj3HXpQ6cYdrUBaHc7ruxHOiWR0GcT4XK4TTz7zZTO1wWPV
iprUo6ayw0dYZSG22MeDA027YirM044Ifosn9CsqnNLZoOwvA2ao4ippDoBRqv5Hv6n0I3f
OAys5nPq3jJtKQ5neqUYo0MrAkoKHO0h6zn0BfvisyB88aM9N0mPD76ykbAERq7151biKbA
2tk8bb9dy/sJmk2ojM/D/W1YtrNL4im6azL2kVn5eiChxCoF33/RuRpXfGR8YNeJtL7bq42
wL70QKDBRoG1TPcLqdVqz74oshlRspfqvZsbsUatbASbt2T0YG4zfgfGh7sb2ezyougVvzd
p77wAJ6n39dc/ZLDDyDzFkQb07984y8LlhIM1AcwFcmh43gWp6A8CJ02174ednirSqSVOPZ
7K9dRw6Y0X8MB4/WGzEcvFeHYIGLBCxi1sBY5wjWnbeuhlWLiSkMDQRb6oGOvF7bJsilKx5
PwgWbbqw8KUSuU01skbMAa5T8Hkm4oiSTf2a78E0zIKLGZg7yu9FDIItWYwOkG96MXEBAdo
uH+wWYmaEexh51ONrfFwKDuDMzh7MO20TTEQU8oQdjRRoAofXvTcj22GSMTY6XleskZX2ZK
xSQdD1tCtkjGRKHSTYza3zLHbBiJTIJw4z6sw9FyTTApG66UakNtiMalr9nqTTNaxRWEXME
QVRLzAL2F9aqjgW65xrbYXu/J9Y/SYTCyBx2SRA/JkQ+Y8F68KOoS1pvK1p5/FcEdvprTND
S4lf+aj3HNWuK5wOsrpBhMlb2If1uK/9QwPh9IC/RhHRfimyTPRXAf73cehNdp8DpKwLm+j
r30vazFwICpvSbi6Etb6GXfPkKaX7ztpQBqG92m2/0g3LWfPtilzwrPHPBz8y1qQMU268Do
o8YvWtI4KGaDAFb6XQhR6t6mqoq/3IP6/g//PZVENsYUVsPLDJLLF9fiOwTbMZnaiscKv8S
GEs//B9JkKrdSRRQRZcnnPjJnJLILblRVAZGuXpSKSYVPzYmOjUx3sSeLSiPoSoCqRIJ0X3
s4ED092W3tR4ZXK3fnkFyrIVtRJsB3k/2smiQ6Pc1VuKhh1yTzYjXKRQcDaY3EDP9IWFtji
UfzQoZcijMwt6YXim23m2aN2Ed8qIedikR6OjFHE4Kus/2yegTszSs5CrM7NamKWzeIeNnt
h/cTcmTGDumsGNTBAsHHSq1KYpqLi4GKLHzU7WNCQRdAcIDEvMZH/CH1mZK7bzb9z038rPf
/D5WZrcK1ttd5BjTj7GerS0xLkvYIklAJqurjMdWYmQtT4JAHF90/zRKqFFVpSiW074bR
Q+PfaLI5C+TwoX51YD+R91A0qyGKIkiFITa8hZFY+Up+rSuREqnpAvdAVL9/gLPP6I+5+D+s
VBsGRbw2rFVRbCHdwaTQcAVPeJJy0f/+sOs/PXoejr3siORpf8iLLYOaziGYf1EtunFcCLj
8PEOznaUyouJ+lM9YKPBLSLULC/sVvY6XUARyFJfq0Ag31YXpJeWPbORxVP/VCM8d/sNjWTQ
XGN/IjNZaZuliXNgq5nRkPBKwF23ZUYG4pLGPgROLup9nLSgEbpiDmN1Gq/IHSfI/8HpG/y
RAoCdqUdre3yL/f9caj8RBBHRYbbfRxyQ9u2vsrqo1oZ7F+Mu+kjuc9BxCMvJ7JaKwvQJc
kAkzTo6t10t6MzwiqJ7Au+2oOJ2Ukb/985+TFGS219fmqWfwisOfpuvSkjRj8vIDBBm9itK
IS+pVpfz+Mg7k13WmkUrgF3yjTH5/C51uaSzK2KeEVoWPx/Ps2CX7ATo6AsETp8Na38dT6d
+Dm4WM4sBieKt/yOEFhiBNkGPVKAqawKRvLW3U730IKC8VLFhhu+ogGxcUq5mZXvMbNDIa
U2LvtmtPPo/qL0bOYu76TKc1ZXOR6AXkeImQgRPsdexPPANTw31a585oZbYxUXRfEIEKmkc
v3eSGnPCVesbxxd1SaIJe2j7H9MbHdjYkeFQuECnUhKxg63BVPL/qAEIO5+OKBz7ctuP8a
peGWliHAueKzJXc5IeFS/3iwkfdLRkrGzBeNIL0IINo3CoGSvn95Z8+LhNSopyqt3uB4rQk

```
sUYIwXgkfrEVYujCO0T5dSkk5j10X7WlDm4DHZVLJH+GtL6v9A6xFJNDQfQF0hS+w1XkTkM
q7pUiX+Qohf8QRJZEyU5VWo2CesR63j1MFpkB3xybpbjt8oI47XC20GEn3uCjwMwq/3K4ib
Hnqi16pPPRgI/u3R9TVfvOC2e0xgllrFG6cKUfoguUaXoxHqP1KKjUw23bpd9L09LzSDdSHc
oDPokWzDee0ZP/Z6VH3rdjQR71kw4VBeT8nKfLP2dGBd0tpWDQhCFK7I9axxthnv0v09x/
J7jhyoLRt5e8lMEfrqtnMWdqjFgYVEQndthZ+9/XvfNk6f5MD8fDheMuvbNThduFSZEcZCL
lW4GWKneVji4wdBrV3aCrzAzxy0H7y7nnkyCEvac503UDtrlbk1VJIVsYfYrN2S2DPbp3H2
E8r/n6jfbilwFyp3JTJvnRqQTcYHXDieW8Njq46JO6O6wsPwKQTKMfHGxxTRJdRe5yvJD54
xvFWw1YEJ/Q2c8cr1NNXEN32e5psfIJ7o48k6bsiyXnbHKSjk781Z5h8Hc3FbUF2U2p5JqL
wcD7+bknEunsbWSC37iMk7oweF3hMhKRMm9iYJ8tpxMRcWCot7ador+Y2fYWBSu/bwXwCRI
08TElMCMGCSqGSib3DQEJFTEWBRRymjnjEbJmrRwh4sRnwudfSQP6KDAxMCEwCQYFKw4DAh
oFAAQU+YFhgKEYjfxN/cL70yRrJSHFgUwECHeCTQnUEU0BAgIIAA==",
  "client_id": "aaaaaaaa-bbbb-aaaa-bbbb-aaaaaaaaaaaa",
  "client_secret": "abcdef",
  "ekmip_reachability": {
    "code": "346758",
    "message": "embedded KMIP server status unavailable on node.",
    "node": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "node1",
      "uuid": "1cd8a442-86d1-11e0-aelc-123478563412"
    }
  },
  "key_id": "https://keyvault1.vault.azure.net/keys/key1",
  "name": "https://kmip-akv-keyvault.vault.azure.net/",
  "proxy_host": "proxy.eng.com",
  "proxy_password": "proxypassword",
  "proxy_port": 1234,
  "proxy_type": "http",
  "proxy_username": "proxyuser",
  "scope": "svm",
  "state": {
    "code": "346758",
    "message": "Top-level internal key protection key (KEK) is
unavailable on the following nodes with the associated reasons: Node:
node1. Reason: No volumes created yet for the SVM. Wrapped KEK status
will be available after creating encrypted volumes."
  },
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  }
}
```

```

    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "tenant_id": "zzzzzzzz-yyyy-zzzz-yyyy-zzzzzzzzzzzz",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
}
}

```

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 | |

azure_reachability

Indicates whether or not the AKV service is reachable from all the nodes in the cluster. This is an advanced property; there is an added computational cost to retrieving its value. The property is not populated for either a collection GET or an instance GET unless it is explicitly requested using the `fields` query parameter or GET for all advanced properties is enabled.

| Name | Type | Description |
|-----------|---------|--|
| code | string | Code corresponding to the status message. Returns a 0 if AKV service is reachable from all nodes in the cluster. |
| message | string | Error message set when reachability is false. |
| reachable | boolean | Set to true when the AKV service is reachable from all nodes of the cluster. |

node

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |
| name | string | |
| uuid | string | |

ekmip_reachability

Provides the connectivity status for the given SVM on the given node to all EKMIP servers configured on all nodes of the cluster. This is an advanced property; there is an added computational cost to retrieving its value. The property is not populated for either a collection GET or an instance GET unless it is explicitly requested using the `fields` query parameter or GET for all advanced properties is enabled.

| Name | Type | Description |
|-----------|----------------------|---|
| code | string | Code corresponding to the error message. Returns a 0 if a given SVM is able to communicate to the EKMIP servers of all of the nodes in the cluster. |
| message | string | Error message set when cluster-wide EKMIP server availability from the given SVM and node is false. |
| node | node | |
| reachable | boolean | Set to true if the given SVM on the given node is able to communicate to all EKMIP servers configured on all nodes in the cluster. |

state

Indicates whether or not the AKV wrapped internal key is available cluster wide. This is an advanced property; there is an added computational cost to retrieving its value. The property is not populated for either a collection GET or an instance GET unless it is explicitly requested using the `fields` query parameter or GET for all advanced properties is enabled.

| Name | Type | Description |
|-----------|---------|--|
| available | boolean | Set to true when an AKV wrapped internal key is present on all nodes of the cluster. |
| code | string | Code corresponding to the status message. Returns a 0 if AKV wrapped key is available on all nodes in the cluster. |
| message | string | Error message set when top-level internal key protection key (KEK) availability on cluster is false. |

svm

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

azure_key_vault

| Name | Type | Description |
|------------------------|---|--|
| _links | _links | |
| authentication_method | string | Authentication method for the AKV instance. |
| azure_reachability | azure_reachability | Indicates whether or not the AKV service is reachable from all the nodes in the cluster. This is an advanced property; there is an added computational cost to retrieving its value. The property is not populated for either a collection GET or an instance GET unless it is explicitly requested using the <code>fields</code> query parameter or GET for all advanced properties is enabled. |
| client_certificate | string | PKCS12 Certificate used by the application to prove its identity to AKV. |
| client_id | string | Application client ID of the deployed Azure application with appropriate access to an AKV. |
| client_secret | string | Secret used by the application to prove its identity to AKV. |
| ekmip_reachability | array[ekmip_reachability] | |
| key_id | string | Key Identifier of AKV key encryption key. |

| Name | Type | Description |
|----------------|-----------------------|--|
| name | string | Name of the deployed AKV that will be used by ONTAP for storing keys. <ul style="list-style-type: none"> • example: https://kmip-akv-keyvault.vault.azure.net/ • format: uri • Introduced in: 9.8 • readCreate: 1 |
| proxy_host | string | Proxy host. |
| proxy_password | string | Proxy password. Password is not audited. |
| proxy_port | integer | Proxy port. |
| proxy_type | string | Type of proxy. |
| proxy_username | string | Proxy username. |
| scope | string | Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster". |
| state | state | Indicates whether or not the AKV wrapped internal key is available cluster wide. This is an advanced property; there is an added computational cost to retrieving its value. The property is not populated for either a collection GET or an instance GET unless it is explicitly requested using the <code>fields</code> query parameter or GET for all advanced properties is enabled. |
| svm | svm | |
| tenant_id | string | Directory (tenant) ID of the deployed Azure application with appropriate access to an AKV. |
| uuid | string | A unique identifier for the Azure Key Vault (AKV). |

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. |

Create an AKV configuration for all clusters and SVMs

POST /security/azure-key-vaults

Introduced In: 9.8

Configures the AKV configuration for all clusters and SVMs.

Required properties

- `svm.uuid` or `svm.name` - Existing SVM in which to create a AKV.
- `client_id` - Application (client) ID of the deployed Azure application with appropriate access to an AKV.
- `tenant_id` - Directory (tenant) ID of the deployed Azure application with appropriate access to an AKV.
- `client_secret` - Secret used by the application to prove its identity to AKV.
- `client_certificate` - PKCS12 Certificate used by the application to prove its identity to AKV.
- `key_id` - Key Identifier of AKV encryption key.
- `name` - Name of the deployed AKV used by ONTAP for storing keys.

Optional properties

- `proxy_type` - Type of proxy (http, https etc.) if proxy configuration is used.
- `proxy_host` - Proxy hostname if proxy configuration is used.
- `proxy_port` - Proxy port number if proxy configuration is used.

- `proxy_username` - Proxy username if proxy configuration is used.
- `proxy_password` - Proxy password if proxy configuration is used.

Related ONTAP commands

- `security key-manager external azure enable`
- `security key-manager external azure update-config`

Parameters

| Name | Type | In | Required | Description |
|-----------------------------|---------|-------|----------|--|
| <code>return_records</code> | boolean | query | False | The default is false. If set to true, the records are returned. <ul style="list-style-type: none"> • Default value: |

Request Body

| Name | Type | Description |
|------------------------------------|------------------------------------|--|
| <code>_links</code> | _links | |
| <code>authentication_method</code> | string | Authentication method for the AKV instance. |
| <code>azure_reachability</code> | azure_reachability | Indicates whether or not the AKV service is reachable from all the nodes in the cluster. This is an advanced property; there is an added computational cost to retrieving its value. The property is not populated for either a collection GET or an instance GET unless it is explicitly requested using the <code>fields</code> query parameter or GET for all advanced properties is enabled. |
| <code>client_certificate</code> | string | PKCS12 Certificate used by the application to prove its identity to AKV. |
| <code>client_id</code> | string | Application client ID of the deployed Azure application with appropriate access to an AKV. |

| Name | Type | Description |
|--------------------|---|--|
| client_secret | string | Secret used by the application to prove its identity to AKV. |
| ekmip_reachability | array[ekmip_reachability] | |
| key_id | string | Key Identifier of AKV key encryption key. |
| name | string | <p>Name of the deployed AKV that will be used by ONTAP for storing keys.</p> <ul style="list-style-type: none"> • example: https://kmip-akv-keyvault.vault.azure.net/ • format: uri • Introduced in: 9.8 • readCreate: 1 |
| proxy_host | string | Proxy host. |
| proxy_password | string | Proxy password. Password is not audited. |
| proxy_port | integer | Proxy port. |
| proxy_type | string | Type of proxy. |
| proxy_username | string | Proxy username. |
| scope | string | Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster". |
| state | state | Indicates whether or not the AKV wrapped internal key is available cluster wide. This is an advanced property; there is an added computational cost to retrieving its value. The property is not populated for either a collection GET or an instance GET unless it is explicitly requested using the <code>fields</code> query parameter or GET for all advanced properties is enabled. |
| svm | svm | |

| Name | Type | Description |
|-------------|-------------|--|
| tenant_id | string | Directory (tenant) ID of the deployed Azure application with appropriate access to an AKV. |
| uuid | string | A unique identifier for the Azure Key Vault (AKV). |

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "authentication_method": "client_secret",
  "azure_reachability": {
    "code": "346758",
    "message": "AKV service is not reachable from all nodes - reason."
  },
  "client_certificate":
  "MI IQQI BAZ CCD+8GCSqGSI B3DQE HAA CCD+AEgg / cMI IP2DCCBg8GCSqGSI B3DQE H BqCCBg
  AwggX8AgEAMI IF9QYJKoZI hvcNAQcBMBwGCiqGSI B3DQEMAQYwDgQI WkY7ojVi JDYCAggAg
  I IFyJPjI fmM6yTCKVw5ep2oZLwvRca8pKhISVjw+WjWngh/ f6Py/Ty0CwCjDFUZPsUudSm
  k78E7SAz0CpQyBwmUuFJQShjZjftHLKRWld3O4sJKB8DzH9Yw1C7En94cyJ1rT4WYoVFmeJ
  cmOXx6h+NFHc7njtXVsKwxc5BF88K3+3kHdV3WyVdXoeXe7yY/+EjFfjtBryp81juielX/N
  Flh5kowhoj+yxn00c1/0OI1iV3mTIOTXD8qrZVp9ZhAxSTRBd5uDyWMfppqxW2L+9vCUU+Z
  gmRxtU3VsRLOp/T140OP7Sn1Ch2OE0bIrbYYtcpi04QcUtefEJBMLbbTbJPHDAti02KIQKvi
  ZL4QMZgho9NNgL4MUpIbNSzDCbuIC+nNMXfgfs0nPZewY+b43H/tMmnZ8Q4kiCFwrUqbFbf
  lBiPMOaJsS0eQaJhDmzM90QEgbesHWgPreAcfMUcN1+BaqHFLHUxLXDxQix6zYiCAtdX6/E
  KlirRh1TFpmFX2PBd+X6uODhmwm4ub9RKj3In8t5qgtN4q/mTBXjAVDABTII E gobBRaXGSS
  XCBC9W/jRed0DRZD9Bm8T/nV39sZNducwZa5ojYTX8fFMA0cfY6IFivXHjB00coHEEGdgCf
  C0G8vACqLbb+2NuhMJPtR7I g50iAPUmC670Z5ItOTQhyYOZ/KagOtvV8sKPCzeAkcMoHlsm
  l89V79zt1fCJQTVWnaGiMj50rcbskk6vCxdGeU6q1kgvXJKXOYRF8/wI p8Y7/rEpnGwE/
  IOZOXzdIDHXqA53B1zyOVem25ezWCD+kpoH89XJssY1NjIMJhjVRED61w/DbSXg2yFu/v3c
  kGapVvTuyAiz5hWUNfl3ptda6GoekKnLqtL4G/RGXCnebLbXg838dlTGBznoCwGTVxXDeVY
  afz8AjI10qYtTmcbN56ya9kK7IHSkrnFX24xQRQofmD0Vob71pjdZ8r1aXKvD/1X2TkYJHo
  eEHq0nWpU8vwdG/xhv4YgKJGN9qsEZgiTXETUh5gak8eltGNkP+fum+10q105oS+Swna5/e
  B8eFeJ12Oi48Xi5UapaTRHPFp6kZfPXOu9cEjhILowRIi6glg7FUbmoJcu50vDIyP9JlyQk
  lw2VtgNlm1QOIvzRenXmy18XnP50NTxx2cIwby8tIcdSn2C2qhj8Gk7q8oxVZGiBgtz4Bwy
  zyKkypwm60BBRrHpAKLw6JM5RISeZnYQfIsId0tGgb61go0Rjf0sFtbuvZcSvLI+2Onj8KH
  1TlmMR4dbuCWE9Ym4sVRmD1D6/f6BoNH0DRg7TJkEFbOadJsNPGzHbKteLdaSMGTNUZ3hED
  QeomakQMfvCgypbOLxrTTqfbenHRtN+iFNYW0zCUW6EJoAXp+lqFnwQL52I12QxwZike01P
  2k0GharzAJkXnNaFGnmHIIP6wJrCCSDZwDmr7GI2R5evDlRi17QUg2sulxQV0U8zezzwIUg
  Ee/Whf0ngGJv/QcsL2jyri/tSQbUWs4g+yep4S1E3iddhfqSjzI2iKdAE+HLiHGVO1z70fG
  Es06dPLnmh4eoWidgZi9N/SoBy1aT0JpIQ6z6N5ImpfdWu9Y6TWXUg1iyOIXGsxiQVIgUNo
  B5Ru/ApDxpYpFLk0fH9k9OnEWK5Im33puOQKLno1uwrOmdB8+x1EY8wc9FvkHGH0Zh4Hyd
  iCVUcYsdiGWUxVm gm4OgyiYzcpB+Ar2dzikGc4pBg8fa1a1HN5Q3TK3w4h/HeOUlMA4vWOY
  uV01H93ILGP6Pwfkgu+1Tam6+8yD0W5meiz0UIZR8TF/9gDb4+4wTFnPgwfTrggEauA8tt8
  uJtiyBCrYexgZTXIZGTUj/86KXQaJKCreRr/kqwJOWqkNW4CGUVzw7LiI+SArOZqUp/Tsxn
  bNC73XCMN1PsnByb2zCeK13V26Cr184U9sDuqQTJRaIse01MN9AAjpa2QWEwgggnBBgkqhki
  G9w0BBwGgggmyBIIJrjCCCAowggmmBgsqhkig9w0BDAoBAqCCCW4wgg1qMBwGCiqGSI B3DQ
  EMAQMwDgQIEj m88b1+pnkCAggABIIJSDD3P+vn1lSolmQvmYgZVFV37T3KpurJvMxQScPva
```

lWiF7Q1Iwasf/+N0hKKNr2j/aGZLunLkaG6mLPeBP212LCwnUxDu5kYffVVE90WX/bXewBY
QribwFNkNhUrSgen8BfhnRlvDrzbBLoHIvDrUFszSVBCYh31Vwgu8p9SjC8K/XluncLdjSF
ko85XpoK23euhowjWH+X0kRoYGzorcdNE8z03BKvfr61W2XWzTSaWQ6eZHG6UrnX5Fe/w5
0U9tMIi3BCCCqgapUHVdmHqKkmWLiKX8LssUcN30JVekM2aJ9v4YO6CoegKAMVDs0tVSOv3
KbGC3GNX6lgHu4y1LOZPlPlfPXb0wDHqavlXK3zph18sIRZuX3HXSdEdenHYAkSV/IQZ89h
+CZUkf0nu/og8eoA8ATDA5g7fj3HXpQ6cYdrUBaHc7ruxHOiWR0GcT4XK4TTz7zZTO1wWPV
iprUo6ayw0dYZSG22MeDA027YirM044Ifosn9CsqnNLZoOWvA2ao4ippDoBRqv5Hv6n0I3f
OAYS5nPq3jJtKQ5neqUYo0MrAkoKHo0h6zn0BfvisyB88aM9N0mPD76ykbAERq7151biKbA
2tk8bb9dy/sJmk2ojM/D/W1YtrNL4iM6azL2kVN5eiChxCOF33/RuRpXfGR8YNeJTL7bq42
wL70QKDBRoG1TPcLqdVqz74oshlRspfqvZsbsUatbASbt2T0YG4zfgfGh7sb2ezyougVvzd
p77wAJ6n39dc/ZLDDyDzFkQb07984y8LlhIM1AcwFcmh43gWp6A8CJ02174ednirSqsVOPZ
7K9dRw6Y0X8MB4/WGzEcvFeHYIGLBCxi1sBY5wjWnbeuhlWLiSkMDQRB6oGOvF7bJsilKx5
PwgWbbqW8KUSuU01skbMAa5T8Hkm4OiSTf2a78E0zIKLGZg7yu9FDIIItWYWokG96MXEBAdO
uH+wWYmaEexh51ONrffwKDuDMZh7MO20TTEQU8oQdjRRoAofXvTcj22GSMTY6XleskZX2ZK
xSQdD1tCtkjGRKHSTYza3zLHbBiJTIJw4z6sw9FyTTApG66UAKntiMalr9nqTTNaxRWEXME
QVRLzAL2F9aqjgW65xrbYXu/J9Y/SYTCyBx2SRA/JkQ+Y8F68K0oS1pvK1p5/FcEdvprTND
S41f+aj3HNWuK5wOsrpBhMlb2IfluK/9QwPh9IC/RhHRfimyTPRXAf73cehNdp8DpKwLm+j
r30vazFwICpvSbi6Etb6GXfPkKaX7ztpQBqG92m2/0g3LWfPtilzwrPHPBz8y1qQMU268Do
o8YvWtI4KGaDAFb6XQhR6t6mqoq/3IP6/g//PZVENsYUVsPLDJLLF9fiOwTbMZnaiscKv8S
GEs//B9JkKrdSRRQRZcnnPjJnJLILblRVAZGuXpSKSYVPzYmOjUx3sSeLSiPoSOcqRIJ0X3
s4ED092W3tR4ZXK3fnkFyrIVtRJsB3k/2smiQ6Pc1VuKhh1yTzYjXKRQcDaY3EDP9IWftji
UfZQoZcijMWT6YXim23m2aN2Ed8qIedikR6OjFHE4Kus/2yegTszSs5CrM7NamKWzeIeNnt
h/cTcmTGDumsGNTBAShHSq1KYpqLi4GKLHzU7WNCQRdAcIDEvMZH/CHlmZK7bzb9z038rPf
/D5WZrcK1ttd5BjTJjj7GerS0xLkvYiklAJqurjMdWYmQtT4JAHF90/zRKqFFVpSiW074bR
Q+PfaLI5C+TwoX5lYD+R91A0qyGKIkiFITa8hZFY+Up+rSuREqnpAvdAVL9/gLpF6I+5+D+s
VBsGRbw2rFVRbCHdwaTQcAVPeJJy0f/+sOs/PXoejr3siORpf8iLLYOaziGYf1EtunFcClj
8PEOznaUyouJ+lm9YKPBSLULC/sVVY6XUARyFJfq0Ag31YXpJeWPbORxVP/VCm8d/sNjWTQ
XGN/IjNZaZuliXNgq5nRkPBKwF23ZUYG4pLGPgROLup9nLSgEbpiDmN1Gq/IHSFI/8HpG/y
RAoCdqUdre3yL/f9caj8RBBHRYbbfRxyQ9u2vsrqo1oZ7F+Mu+kjuc9BxCMvJ7JaKwvQJc
kAkzTo6t10t6MzwiqJ7Au+2oOJ2Ukb/985+TFGS219fmqWfwisOfpuvSkjRj8vIDBBm9itK
IS+pVpfz+Mg7k13WmkUrgF3yjTH5/C51uaSzK2KeEVoWPx/Ps2CX7ATo6AsETp8Na38dT6d
+Dm4WM4sBieKt/yOEFhiBNkqpVKAqawKRvLW3U73OIKC8VLFhhnU+ogGxcUq5mZXvMbNDIa
U2LvtmtPPo/qL0bOYu76TKc1ZX0R6AXkeImQgRPsdeXPPANtW31a585oZbYxUXRfEIEKmkc
v3eSGnPCVesbxxd1SaIJe2j7H9MbHdjYkeFQuECnUhKxg63BVPl/qAEIO5+OKBzm7ctuP8a
peGWliHAueKzJXc5IeFS/3iwkfdLRkrzBeNIL0IINo3CoGSvn95Z8+LhNSopyqt3uB4rQk
sUYIwXgkfrEVYujCO0T5dSkk5j10X7W1Dm4DHZVLJH+GtL6v9A6xFJNDQfQF0hS+wLXkTKM
q7pUiX+Qohf8QRJZEyU5VWo2CesR63j1MFpkB3xybpbjt8oI47XC20GEn3uCjwMwq/3K4ib
Hnqi16pPPRgI/u3R9TVfvOC2e0xgl1rFG6cKUfoguUaXoxHqP1KKjUw23bpd9L09LzSDdShc
oDPokWzDee0ZP/Z6VH3rdjQR71kw4VBet8nKfLP2dGBd0tpWDQhCFK7I9axxxtHnv0v09x/
J7jhyoLRt5e8lMEfrqtnMwdqjFgYVEQndthZ+9/Xvfnk6f5MD8fDheMuvbnThduFSZEcZCL
lW4GwkneVji4wdBrV3aCrzAzxy0H7y7nnkyCEvac503UDtr1bk1VJIVsYfYrN2S2DPbp3H2
E8r/n6jfbilwFyp3JTJvnRqQTcYHXDieW8Njq46JO606wsPwKQTKMfHGxxTRJdRe5yvJD54
xvFWw1YEJ/Q2c8cr1NNXEN32e5psfIJ7o48k6bsiyXnbHKSjK781Z5h8Hc3FbUF2U2p5JqL
wcD7+bknEunsbWSC37imk7oweF3hMhKRMm9iYJ8tpxMRcWCot7ador+Y2fYWBSu/bwXwCRI
08TElMCMGCSqGSib3DQEJFTEWBBRymjnjEbJmrRwh4sRnwudfSQP6KDAxMCEwCQYFKw4DAh
oFAAQU+YFhgKEYjfxN/cL70yRrJSHFgUwECHeCTQnUEU0BAgiIAA==" ,

```

"client_id": "aaaaaaaa-bbbb-aaaa-bbbb-aaaaaaaaaaaa",
"client_secret": "abcdef",
"ekmip_reachability": {
  "code": "346758",
  "message": "embedded KMIP server status unavailable on node.",
  "node": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  }
},
"key_id": "https://keyvault1.vault.azure.net/keys/key1",
"name": "https://kmip-akv-keyvault.vault.azure.net/",
"proxy_host": "proxy.eng.com",
"proxy_password": "proxypassword",
"proxy_port": 1234,
"proxy_type": "http",
"proxy_username": "proxyuser",
"scope": "svm",
"state": {
  "code": "346758",
  "message": "Top-level internal key protection key (KEK) is
unavailable on the following nodes with the associated reasons: Node:
node1. Reason: No volumes created yet for the SVM. Wrapped KEK status
will be available after creating encrypted volumes."
},
"svm": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"tenant_id": "zzzzzzzz-yyyy-zzzz-yyyy-zzzzzzzzzzz",
"uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
}

```


Response

Status: 201, Created

| Name | Type | Description |
|-------------|--|-------------------|
| _links | _links | |
| num_records | integer | Number of records |
| records | array[azure_key_vault] | |

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "authentication_method": "client_secret",
    "azure_reachability": {
      "code": "346758",
      "message": "AKV service is not reachable from all nodes -
reason."
    },
    "client_certificate":
"MIIQKQIBAzCCD+8GCSqGSIB3DQEHAaCCD+AEgg/cMIIP2DCCBg8GCSqGSIB3DQEHbqCCBg
AwggX8AgEAMIIF9QYJKoZIhvcNAQcBMBwGCiqGSIb3DQEMAQYwDgQIWKY7ojViJDYCAggAg
IIFyJPjIfmM6yTCKVw5ep2oZLwvwRca8pKhISVjw+WjWngh/f6Py/Ty0CwCjDFUZPsUUdSm
k78E7SAz0CpQyBwmUuFJQShjZjftHLKRWld3O4sJKB8DzH9Yw1C7En94cyJ1rT4WYoVFmeJ
cmOXx6h+NFHc7njtXVsKwxc5BF88K3+3kHdV3WyVdXoeXe7yY/+EjFfjtBryp81juielX/N
Flh5kowhoj+yxn00c1/0OI1iV3mTIOTXD8qrZVp9ZhAxSTRBd5uDyWMfppqxW2L+9vCUU+Z
gmRxtU3VsRLOp/T140OP7Sn1Ch2OE0bIrbYYtcpi04QcUtfeJBMlbbTbJPHDAti02KIQKvi
ZL4QMZgho9NNgL4MUpIbNSzDCbuIC+nNMxfGfs0nPZewY+b43H/tMmnZ8Q4kiCFwrUqbFbf
lBiPMOaJsS0eQaJhDmzM90QEgbesHWgPreAcfMUcN1+BaqHFLHUxLXDxQix6zYiCaDX6/E
KlirRh1TFpmFX2PBd+X6uODhmwm4ub9RKj3In8t5qgtN4q/mTBXjAVDAbTIIIEgobBRaXGSS
XCbc9W/jRed0DRZD9Bm8T/nV39sZNducwZa5ojYTX8fFMA0cfY6IFivXHjB00coHEEGdgCf
C0G8vAcqLbb+2NuhMJPtR7Ig50iAPUMc670Z5ItOTQhyYOZ/KagOtvV8sKPCzeAkcMoHlsm
l89V79zt1fCJQTVWnaGiMj5Orcbskk6vCxdGGeU6q1kgvXJKXOYRF8/wIpv8Y7/rEpnGwE/
I0ZOXzdIDHXqA53B1zyOVem25ezWCD+kpoH89XJssY1NjIMJhjVRED61w/DbSXg2yFu/v3c
kGapVvTuyAiz5hWUNfl3ptda6GoekKnLqtL4G/RGXCnebLbXg838dlTGBznoCwGTVxXDeVY
afz8AjI10qYtTmcbN56ya9kK7IHSkrnFX24xQRQOfmD0Vob71pjdZ8r1aXKvD/1X2TkYJHo
eEHq0nWpU8vwdG/xhv4YgKJGN9qsEZgiTXETUh5gak8eltGNkP+fum+10q105oS+Swna5/e
B8eFeJ12Oi48Xi5UapaTRHPFP6kZfPXOu9cEjhILowRIi6glg7FUbmoJcu50vDIyP9JlyQk
lw2VtgNlm1QOIvzRenXmy18XnP50NTxx2cIwby8tIcdSn2C2qhj8Gk7q8oxVZGiBgtz4Bwy
zyKkypwm60BBRrHpAKLw6JM5RISeZnYQfIsId0tGgb61go0RJf0sFtbuvZcSvLI+2Onj8KH
1TlmMR4dbuCWE9Ym4sVRmD1D6/f6BoNH0DRg7TJkEFbOadJsNPGzHbKteLdaSMGTNUZ3hED
```

QeomakQMfvCgypbOLxrTTqfbenHRtN+iFNyW0zCUW6EJoAXp+lqFnwQL52I12QxwZike01P
2k0GharzAJkXnNaFGnmHIIP6wJrCCSDZwDmr7GI2R5evDlRi17QUg2sulxQV0U8zezzwIUg
Ee/Whf0ngGJv/QcsL2jyri/tSQbUWs4g+yep4S1E3iddhfqSJzI2iKdAE+HLiHGVO1z70fG
Es06dPLnmh4eoWidgZi9N/SoBy1aT0JpIQ6z6N5ImpFDWu9Y6TWXUg1iyOIXGsxiQVIgUNo
B5Ru/ApDxpYpFlk0fH9k9OnEWK5Im33puOQKLno1uwrOmdbG8+x1EY8wc9FvkHGH0Zh4Hyd
iCVUcYSdiGWUxVmgm4OgyiYzcpB+Ar2dzikGc4pBg8fa1a1HN5Q3TK3w4h/HeOUlMA4vWOY
uV01H93ILGP6Pwfkg+1Tam6+8yD0W5meiz0UIZR8TF/9gDb4+4wTFnPwgfTrggEauA8tt8
uJtiyBCrYexgZTXIZGTUj/86KXQaJKCreRr/kqwJOWqkNW4CGUVzw7LiI+sArOZqUp/Tsxn
bNC73XCMNlPsnByb2zCeK13V26Crl84U9sDuqQTJRaIse01MN9AAjpa2QWEwggNBbgkqkhi
G9w0BBwGgggmyBIIJrjCCCaowggmmBgsqhkig9w0BDAoBAqCCCW4wgg1qMBwGCiqGSib3DQ
EMAQMwDgQIEjM88b1+pnkCAggABIIJSDD3P+vn1lSolmQvmYgZVfV37T3KpurJvMxQScPva
lWiF7Q1Iwasf/+N0hKKNr2j/aGZLunLkaG6mLPeBP212LCwnUxDu5kyffVVE90WX/bXewBY
QribwFNkNhUrSgen8BfhnRlvDrzBLoHIvDrUFszSVBCYh31Vwgu8p9SjC8K/XluncLdjSF
ko85XpoK23euhowjWH+X0kRoYGzorcdNE8z03BKvfr61W2XWzTSaWQ6eZHG6UrnX5Fe/w5
0U9tMIi3BCCCqgapUHVdmHqKkmWLiKX8LssUcN30JvekM2aJ9v4YO6CoegKAMVDs0tVSov3
KbGC3GNX6lgHu4y1LOZPlPlfPxb0wDHqavlXK3zph18sIRZuX3HXSdEdenHYAkSV/IQZ89h
+CZUkf0nu/og8eoA8ATDA5g7fj3HXpQ6cYdrUBaHc7ruxHOiWR0GcT4XK4TTz7zZTO1wWPV
iprUo6ayw0dYZSG22MeDA027YirM044Ifosn9CsqnNLZoOWvA2ao4ippDoBRqv5Hv6n0I3f
OAys5nPq3jJtKQ5neqUYo0MrAkoKHO0h6zn0BfvisyB88aM9N0mPD76ykbAERq7151biKbA
2tk8bb9dy/sJmk2ojM/D/W1YtrNL4iM6azL2kVn5eiChxCof33/RuRpXfGR8YNeJtL7bq42
wL70QKDBRoG1TPcLqdVqz74oshlRspfqvZsbsUatbASbt2T0YG4zfgfGh7sb2ezyougVvzd
p77wAJ6n39dc/ZLDDyDzFkQb07984y8LlhIM1AcwFcmh43gWp6A8CJ02174ednirSqSVOPZ
7K9dRw6Y0X8MB4/WGzEcvFeHYIGLBCxi1sBY5wjWnbeuhlWLiSkMDQRB6oGOvF7bJsilKx5
PwgWbbqw8KUSuU01skbMAa5T8Hkm4OiSTf2a78E0zIKLGZg7yu9FDIItWYWokG96MXEBAdo
uH+wWYmaEexh51ONrfFwKDuDMzh7MO20TTEQU8oQdjRRoAofXvTcj22GSMTY6XleskZX2ZK
xSQdD1tCtkjGRKHSTYza3zLHbBiJTIJw4z6sw9FyTTApG66UakNtiMalr9nqTTNaxRWEXME
QVRLzAL2F9aqjgW65xrbYXu/J9Y/SYTCyBx2SRA/JkQ+Y8F68KOoS1pvK1p5/FcEdvprTND
S4lf+aj3HNWuK5wOsrpBhMlb2If1uK/9QwPh9IC/RhHRfimyTPRXAf73cehNdp8DpKwLm+j
r30vazFwICpvSbi6Etb6GXfPkKaX7ztpQBqG92m2/0g3LWfPtilzwrPHPBz8y1qQMU268Do
o8YvWtI4KGaDAFb6XQhR6t6mqoq/3IP6/g//PZVENsYUVsPLDJLLF9fiOwTbMznaiscKv8S
GEs//B9JkKrdSRRQRZcnnPjJnJLILblRVAZGuXpSKSYVPzYmOjUx3sSeLSiPoSoCqRIJ0X3
s4ED092W3tR4ZXK3fnkFyrIVtRJsB3k/2smiQ6Pc1VuKhh1yTzYjXKRQcDaY3EDP9IWFtji
UfZQoZcijMwt6YXim23m2aN2Ed8qIedikR6OjFHE4Kus/2yegTszSs5CrM7NamKWzeIeNnt
h/cTcmTGDumsGNTBAsHHSq1KYpqLi4GKLHzU7WNCQRdAcIDEvMZH/CH1mZK7bzb9z038rPf
/D5WZrcK1ttd5BjTjJ7GerS0xLkvYIklAJqurjMdWYmQtT4JAHF90/zRKqFFVpSiW074bR
Q+PfaLI5C+TwoX51YD+R91A0qyGKIkiFITa8hZFY+Up+rSuREqnpAvdAVL9/gLPP6I+5+D+s
VBsGRbw2rFVRbCHdwaTQcAVPeJJy0f/+sOs/PXoejr3siORpf8iLLYOaziGYf1EtunFcCLj
8PEOznaUyouJ+lm9YKPBSLULC/sVvY6XUARyFJfq0Ag31YXpJeWPbORxVP/VCM8d/sNjWTQ
XGN/IjNZaZuliXNgq5nRkPBKwF23ZUYG4pLGPgROLup9nLSgEbpiDmN1Gq/IHSfI/8HpG/y
RAoCdqUdre3yL/f9caj8RBBHRYbbfRxyQ9u2vsrqo1oZ7F+Mu+kjuc9BxCMvJ7JaKwvQJc
kAkzTo6t10t6MzwiqJ7Au+2oOJ2Ukb/985+TFGS219fmqWfwisOfpuvSkjRj8vIDBBm9itK
IS+pVpfz+Mg7k13WmkUrgF3yjTH5/C51uaSzK2KeEVoWPx/Ps2CX7ATo6AsETp8Na38dT6d
+Dm4WM4sBieKt/yOEFhiBNkGPVKAqawKRvLW3U730IKC8VLFhhu+ogGxcUq5mZXvMbNDIa
U2LvtmtPPo/qL0bOYu76TKc1ZXOR6AXkeImQgRPsdexPPANTW31a585oZbYxUXRfEIEKmkc
v3eSGnPCVesbxxd1SaIJe2j7H9MbHdjYkeFQuECnUhKxg63BVPL/qAEIO5+OKBz7ctuP8a
peGWliHAueKzJXc5IeFS/3iwkfdLRkrzBeNIL0IINo3CoGSvn95Z8+LhNSopyqt3uB4rQk

```
sUYIwXgkfrEVYujCO0T5dSkk5j10X7WlDm4DHZVLJH+GtL6v9A6xFJNDQfQF0hS+wLXkTkM
q7pUiX+Qohf8QRJZEyU5VWo2CesR63j1MFpkB3xybpbjt8oI47XC20GEn3uCjwMwq/3K4ib
Hnqi16pPPRgI/u3R9TVfvOC2e0xgllrFG6cKUfoguUaXoxHqP1KKjUw23bpd9L09LzSDdSHc
oDPokWzDee0ZP/Z6VH3rdjQR71kw4VBeT8nKfLP2dGBd0tpWDQhCFK7I9axxthnv0v09x/
J7jhyoLRt5e8lMEfrqtnMWdqjFgYVEQndthZ+9/XvfNk6f5MD8fDheMuvbNThduFSZEcZCL
lW4GWKneVji4wdBrV3aCrzAzxy0H7y7nnkyCEvac503UDtrlbk1VJIVsYfYrN2S2DPbp3H2
E8r/n6jfBilwFyp3JTJvnRqQTcYHXDieW8Njq46JO6O6wsPwKQTKMfHGxxTRJdRe5yvJD54
xvFWw1YEJ/Q2c8cr1NNXEN32e5psfIJ7o48k6bsiyXnbHKSjk781Z5h8Hc3FbUF2U2p5JqL
wcD7+bknEunsbWSC37iMk7oweF3hMhKRMm9iYJ8tpxMRcWCot7ador+Y2fYWBSu/bwXwCRI
08TElMCMGCSqGSib3DQEJFTEWBRRymjnEbJmrRwh4sRnwudfSQP6KDAXMCEwCQYFKw4DAh
oFAAQU+YFhgKEYjfxN/cL70yRrJSHFgUwECHeCTQnUEU0BAgIIAA==",
  "client_id": "aaaaaaaa-bbbb-aaaa-bbbb-aaaaaaaaaaaa",
  "client_secret": "abcdef",
  "ekmip_reachability": {
    "code": "346758",
    "message": "embedded KMIP server status unavailable on node.",
    "node": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "node1",
      "uuid": "1cd8a442-86d1-11e0-aelc-123478563412"
    }
  },
  "key_id": "https://keyvault1.vault.azure.net/keys/key1",
  "name": "https://kmip-akv-keyvault.vault.azure.net/",
  "proxy_host": "proxy.eng.com",
  "proxy_password": "proxypassword",
  "proxy_port": 1234,
  "proxy_type": "http",
  "proxy_username": "proxyuser",
  "scope": "svm",
  "state": {
    "code": "346758",
    "message": "Top-level internal key protection key (KEK) is
unavailable on the following nodes with the associated reasons: Node:
node1. Reason: No volumes created yet for the SVM. Wrapped KEK status
will be available after creating encrypted volumes."
  },
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  }
}
```

```

    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "tenant_id": "zzzzzzzz-yyyy-zzzz-yyyy-zzzzzzzzzzzz",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
}
}

```

Headers

| Name | Description | Type |
|----------|---|--------|
| Location | Useful for tracking the resource location | string |

Error

Status: Default

ONTAP Error Response Codes

| Error Code | Description |
|------------|--|
| 3735553 | Failed to create self-signed certificate. |
| 3735664 | The specified key size is not supported in FIPS mode. |
| 3735665 | The specified hash function is not supported in FIPS mode. |
| 3735700 | The specified key size is not supported. |
| 52559972 | The certificates start date is later than the current date. |
| 65537500 | A key manager has already been configured for this SVM. |
| 65537504 | Internal error. Failed to store configuration in internal database. |
| 65537505 | One or more volume encryption keys of the given SVM are stored on a key manager configured for the admin SVM. |
| 65537506 | AKV is not supported in MetroCluster configurations. |
| 65537512 | AKV cannot be configured for the given SVM as not all nodes in the cluster can enable the Azure Key Vault feature. |

| Error Code | Description |
|------------|---|
| 65537514 | Failed to check if the Azure Key Vault feature is enabled. |
| 65537518 | Failed to find an interface with Cluster role. |
| 65537523 | Invalid key ID format. Example key ID format: "https://mykeyvault.vault.azure.net/keys/key1". |
| 65537526 | Failed to enable Azure Key Vault feature. |
| 65537567 | No authentication method provided. |
| 65537573 | Invalid client 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 | |

azure_reachability

Indicates whether or not the AKV service is reachable from all the nodes in the cluster. This is an advanced property; there is an added computational cost to retrieving its value. The property is not populated for either a collection GET or an instance GET unless it is explicitly requested using the `fields` query parameter or GET for all advanced properties is enabled.

| Name | Type | Description |
|-----------|---------|--|
| code | string | Code corresponding to the status message. Returns a 0 if AKV service is reachable from all nodes in the cluster. |
| message | string | Error message set when reachability is false. |
| reachable | boolean | Set to true when the AKV service is reachable from all nodes of the cluster. |

node

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |
| name | string | |
| uuid | string | |

ekmip_reachability

Provides the connectivity status for the given SVM on the given node to all EKMIP servers configured on all nodes of the cluster. This is an advanced property; there is an added computational cost to retrieving its value. The property is not populated for either a collection GET or an instance GET unless it is explicitly requested using the `fields` query parameter or GET for all advanced properties is enabled.

| Name | Type | Description |
|-----------|----------------------|---|
| code | string | Code corresponding to the error message. Returns a 0 if a given SVM is able to communicate to the EKMIP servers of all of the nodes in the cluster. |
| message | string | Error message set when cluster-wide EKMIP server availability from the given SVM and node is false. |
| node | node | |
| reachable | boolean | Set to true if the given SVM on the given node is able to communicate to all EKMIP servers configured on all nodes in the cluster. |

state

Indicates whether or not the AKV wrapped internal key is available cluster wide. This is an advanced property; there is an added computational cost to retrieving its value. The property is not populated for either a collection GET or an instance GET unless it is explicitly requested using the `fields` query parameter or GET for all advanced properties is enabled.

| Name | Type | Description |
|-----------|---------|--|
| available | boolean | Set to true when an AKV wrapped internal key is present on all nodes of the cluster. |
| code | string | Code corresponding to the status message. Returns a 0 if AKV wrapped key is available on all nodes in the cluster. |
| message | string | Error message set when top-level internal key protection key (KEK) availability on cluster is false. |

svm

| Name | Type | Description |
|------------------------|------------------------|----------------------|
| _links | _links | |
| name | string | The name of the SVM. |

| Name | Type | Description |
|------|--------|-----------------------------------|
| uuid | string | The unique identifier of the SVM. |

azure_key_vault

| Name | Type | Description |
|-----------------------|---|--|
| _links | _links | |
| authentication_method | string | Authentication method for the AKV instance. |
| azure_reachability | azure_reachability | Indicates whether or not the AKV service is reachable from all the nodes in the cluster. This is an advanced property; there is an added computational cost to retrieving its value. The property is not populated for either a collection GET or an instance GET unless it is explicitly requested using the <code>fields</code> query parameter or GET for all advanced properties is enabled. |
| client_certificate | string | PKCS12 Certificate used by the application to prove its identity to AKV. |
| client_id | string | Application client ID of the deployed Azure application with appropriate access to an AKV. |
| client_secret | string | Secret used by the application to prove its identity to AKV. |
| ekmip_reachability | array[ekmip_reachability] | |
| key_id | string | Key Identifier of AKV key encryption key. |

| Name | Type | Description |
|----------------|-----------------------|--|
| name | string | Name of the deployed AKV that will be used by ONTAP for storing keys. <ul style="list-style-type: none"> • example: https://kmip-akv-keyvault.vault.azure.net/ • format: uri • Introduced in: 9.8 • readCreate: 1 |
| proxy_host | string | Proxy host. |
| proxy_password | string | Proxy password. Password is not audited. |
| proxy_port | integer | Proxy port. |
| proxy_type | string | Type of proxy. |
| proxy_username | string | Proxy username. |
| scope | string | Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster". |
| state | state | Indicates whether or not the AKV wrapped internal key is available cluster wide. This is an advanced property; there is an added computational cost to retrieving its value. The property is not populated for either a collection GET or an instance GET unless it is explicitly requested using the <code>fields</code> query parameter or GET for all advanced properties is enabled. |
| svm | svm | |
| tenant_id | string | Directory (tenant) ID of the deployed Azure application with appropriate access to an AKV. |
| uuid | string | A unique identifier for the Azure Key Vault (AKV). |

_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. |

Re-key the external key in the key hierarchy

POST /security/azure-key-vaults/{azure_key_vault.uuid}/rekey-external

Introduced In: 9.11

Rekeys the external key in the key hierarchy for an SVM with an AKV configuration.

Required properties

- `key_id`- Key identifier of the new AKV key encryption key.

Related ONTAP commands

- `security key-manager external azure rekey-external`

Parameters

| Name | Type | In | Required | Description |
|----------------------|---------|-------|----------|--|
| azure_key_vault.uuid | string | path | True | UUID of the existing AKV configuration. |
| return_timeout | integer | query | False | <p>The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202.</p> <ul style="list-style-type: none"> • Default value: 1 • Max value: 120 • Min value: 0 |
| 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 |
|--------|--------|---|
| key_id | string | Key identifier of the AKV key encryption key. |

| Name | Type | Description |
|-------|--------|---|
| scope | string | Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster". |
| svm | svm | |

Example request

```
{
  "key_id": "https://keyvault1.vault.azure.net/keys/key1",
  "scope": "svm",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

Response

Status: 202, Accepted

Error

Status: Default

ONTAP Error Response Codes

| Error Code | Description |
|------------|--|
| 65537120 | Azure Key Vault is not configured for the given SVM. |
| 65537547 | One or more volume encryption keys for encrypted volumes of this data SVM are stored in the key manager configured for the admin SVM. Use the REST API POST method to migrate this data SVM's keys from the admin SVM's key manager to this data SVM's key manager before running the rekey operation. |

| 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

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

azure_key_vault_key

| Name | Type | Description |
|--------|---------------------|---|
| key_id | string | Key identifier of the AKV key encryption key. |
| scope | string | Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster". |
| svm | svm | |

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. |

Delete an AKV configuration

DELETE /security/azure-key-vaults/{uuid}

Introduced In: 9.8

Deletes an AKV configuration.

Related ONTAP commands

- security key-manager external azure disable

Parameters

| Name | Type | In | Required | Description |
|------|--------|------|----------|-------------|
| uuid | string | path | True | AKV UUID |

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

| Error Code | Description |
|------------|---|
| 65536242 | One or more self-encrypting drives are assigned an authentication key. |
| 65536243 | Cannot determine authentication key presence on one or more self-encrypting drives. |

| Error Code | Description |
|------------|--|
| 65536817 | Internal error. Failed to determine if key manager is safe to disable. |
| 65536827 | Internal error. Failed to determine if the given SVM has any encrypted volumes. |
| 65536834 | Internal error. Failed to get existing key-server details for the given SVM. |
| 65536867 | Volume encryption keys (VEK) for one or more encrypted volumes are stored on the key manager configured for the given SVM. |
| 65536883 | Internal error. Volume encryption key is missing for a volume. |
| 65536884 | Internal error. Volume encryption key is invalid for a volume. |
| 65536924 | Cannot remove key manager that still contains one or more NSE authentication keys. |
| 65537120 | Azure Key Vault is not configured for the given SVM. |
| 196608080 | One or more nodes in the cluster have the root volume encrypted using NVE (NetApp Volume Encryption). |
| 196608301 | Internal error. Failed to get encryption type. |
| 196608305 | NAE aggregates found in the cluster. |

| 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 the AKV configuration for an SVM specified by the UUID

```
GET /security/azure-key-vaults/{uuid}
```

Introduced In: 9.8

Retrieves the AKV configuration for the SVM specified by the UUID.

Related ONTAP commands

- `security key-manager external azure show`
- `security key-manager external azure check`

Parameters

| Name | Type | In | Required | Description |
|------|--------|------|----------|-------------|
| uuid | string | path | True | AKV UUID |

| Name | Type | In | Required | Description |
|--------|---------------|-------|----------|-------------------------------|
| fields | array[string] | query | False | Specify the fields to return. |

Response

Status: 200, Ok

| Name | Type | Description |
|------------------------|---|--|
| _links | _links | |
| authentication_method | string | Authentication method for the AKV instance. |
| azure_reachability | azure_reachability | Indicates whether or not the AKV service is reachable from all the nodes in the cluster. This is an advanced property; there is an added computational cost to retrieving its value. The property is not populated for either a collection GET or an instance GET unless it is explicitly requested using the <code>fields</code> query parameter or GET for all advanced properties is enabled. |
| client_certificate | string | PKCS12 Certificate used by the application to prove its identity to AKV. |
| client_id | string | Application client ID of the deployed Azure application with appropriate access to an AKV. |
| client_secret | string | Secret used by the application to prove its identity to AKV. |
| ekmip_reachability | array[ekmip_reachability] | |
| key_id | string | Key Identifier of AKV key encryption key. |

| Name | Type | Description |
|----------------|-----------------------|--|
| name | string | Name of the deployed AKV that will be used by ONTAP for storing keys. <ul style="list-style-type: none"> • example: https://kmip-akv-keyvault.vault.azure.net/ • format: uri • Introduced in: 9.8 • readCreate: 1 |
| proxy_host | string | Proxy host. |
| proxy_password | string | Proxy password. Password is not audited. |
| proxy_port | integer | Proxy port. |
| proxy_type | string | Type of proxy. |
| proxy_username | string | Proxy username. |
| scope | string | Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster". |
| state | state | Indicates whether or not the AKV wrapped internal key is available cluster wide. This is an advanced property; there is an added computational cost to retrieving its value. The property is not populated for either a collection GET or an instance GET unless it is explicitly requested using the <code>fields</code> query parameter or GET for all advanced properties is enabled. |
| svm | svm | |
| tenant_id | string | Directory (tenant) ID of the deployed Azure application with appropriate access to an AKV. |
| uuid | string | A unique identifier for the Azure Key Vault (AKV). |

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "authentication_method": "client_secret",
  "azure_reachability": {
    "code": "346758",
    "message": "AKV service is not reachable from all nodes - reason."
  },
  "client_certificate":
  "MIIQKQIBAzCCD+8GCSqGSIb3DQEHAaCCD+AEgg/cMIIP2DCCBg8GCSqGSIb3DQEHbqCCBg
  AwggX8AgEAMIIF9QYJKoZIhvcNAQcBMBwGCiqGSIb3DQEMAQYwDgQIWKY7ojViJDYCAggAg
  IIFyJPjIfmM6yTCKVw5ep2oZLwvRca8pKhISVjw+WjWngh/f6Py/Ty0CwCjDFUZPsUudSm
  k78E7SAz0CpQyBwmUuFJQShjZjftHLKRWld3O4sJKB8DzH9Yw1C7En94cyJ1rT4WYoVFmeJ
  cmOXx6h+NFHc7njtXVsKwxc5BF88K3+3kHdV3WyVdXoeXe7yY/+EjFfjtBryp81juielX/N
  Flh5kowhoj+yxn00c1/0OI1iV3mTIOTXD8qrZVp9ZhAxSTRBd5uDyWMfppqxW2L+9vCUU+Z
  gmRxtU3VsRLOp/T140OP7Sn1Ch2OE0bIrbYYtcpi04QcUtefEJBMLbbTbJPHDAti02KIQKvi
  ZL4QMZgho9NNgL4MUpIbNSzDCbuIC+nNMxfGfs0nPZewY+b43H/tMmnZ8Q4kiCFwrUqbFbf
  lBiPMoaJsS0eQaJhDmzM90QEgbesHWgPreAcfMUcN1+BaqHFLHUxLXDxQix6zYiCAtdX6/E
  KlirRh1TFpmFX2PBd+X6uODhmwm4ub9RKj3In8t5qgtN4q/mTBXjAVDAbTIIegobBRaXGSS
  XCbc9W/jRed0DRZD9Bm8T/nV39sZNducwZa5ojYTX8fFMA0cfY6IFivXHjB00coHEEGdgCf
  C0G8vACqLbb+2NuhMJPtR7Ig50iAPUmC670Z5ItOTQhyYOZ/KagOtvV8sKPCzeAkcMoHlsm
  l89V79zt1fCJQTVWnaGiMj50rcbskk6vCxdGeU6q1kgvXJKXOYRF8/wIvp8Y7/rEpnGwE/
  IOZOxzdIDHXqA53B1zyOVem25ezWCD+kpoH89XJssY1NjIMJhjVRED61w/DbSXg2yFu/v3c
  kGapVvTuyAiz5hWUNfl3ptda6GoekKnLqtL4G/RGXCnebLbXg838dlTGBznoCwGTVxXDeVY
  afz8AjI10qYtTmcbN56ya9kK7IHSkrnFX24xQRQOfmD0Vob71pjdZ8r1aXKvD/1X2TkYJHo
  eEHq0nWpU8vwdG/xhv4YgKJGN9qsEZgiTXETUh5gak8eltGNkP+fum+10q105oS+Swna5/e
  B8eFeJ120i48Xi5UapaTRHPFp6kZfPXOu9cEjhILowRIi6glg7FUbmoJcu50vDIyP9JlyQk
  lw2VtgNlm1QOIvzRenXmy18XnP50NTxx2cIwby8tIcdSn2C2qhj8Gk7q8oxVZGiBgtz4Bwy
  zyKkypwm60BBRrHpAKLw6JM5RISeZnYQfIsId0tGgb61go0Rjf0sFtbuvZcSvLI+2Onj8KH
  1TlmMR4dbuCWE9Ym4sVRmD1D6/f6BoNH0DRg7TJkEFbOadJsNPGzHbKteLdaSMGTNUZ3hED
  QeomakQMfvCgypbOLxrTTqfbenHRtN+iFNYW0zCUW6EJoAXp+lqFnwQL52I12QxwZike01P
  2k0GharzAJkXnNaFGnmHIIP6wJrCCSDZwDmr7GI2R5evDlRi17QUg2sulxQV0U8zezzwIUg
  Ee/Whf0ngGJv/QcsL2jyri/tSQbUWs4g+yep4S1E3iddhfqSjzI2iKdAE+HLiHGVO1z70fG
  Es06dPLnmh4eoWidgZi9N/SoBy1aT0JpIQ6z6N5ImPfdWu9Y6TWXUg1iyOIXGsxiQVIgUNo
  B5Ru/ApDxpYpFLk0fH9k9OnEWK5Im33puOQKLno1uwrOmdB8+x1EY8wc9FvkHGH0Zh4Hyd
  iCVUcYsdiGWUxVmgm4OgyiYzcpB+Ar2dzikGc4pBg8fa1a1HN5Q3TK3w4h/HeOUlMA4vWOY
  uV01H93ILGP6Pwfkgu+1Tam6+8yD0W5meiz0UIZR8TF/9gDb4+4wTFnPgwfTrggEauA8tt8
  uJtiyBCrYexgZTXIZGTUj/86KXQaJKCreRr/kqwJOWqkNW4CGUVzw7LiI+sArOZqUp/Tsxn
  bNC73XCMN1PsnByb2zCeK13V26Cr184U9sDuqQTJRaIse01MN9AAjpa2QWEwgggnBBgkqhki
  G9w0BBwGgggmyBIIJrjCCCAowggmmBgsqhkig9w0BDAoBAqCCCW4wgg1qMBwGCiqGSIb3DQ
  EMAQMwDgQIEjM88b1+pnkCAggABIIJSDD3P+vn1lSolmQvmYgZVfV37T3KpurJvMxQScPva
```

lWiF7Q1Iwasf/+N0hKKNr2j/aGZLunLkaG6mLPeBP212LCwnUxDu5kYffVVE90WX/bXewBY
QribwFNkNhUrSgen8BfhnRlvDrzbBLoHIvDrUFszSVBCYh31Vwgu8p9SjC8K/XluncLdjSF
ko85XpoK23euhowjWH+X0kRoYGzorcdNE8z03BKvfr61W2XWzTSaWQ6eZHG6UrnX5Fe/w5
0U9tMIi3BCCCqgapUHVdmHqKkmWLiKX8LssUcN30JVekM2aJ9v4YO6CoegKAMVDs0tVSOv3
KbGC3GNX6lgHu4y1LOZPlPlfPXb0wDHqavlXK3zPH18sIRZuX3HXSdEdenHYAkSV/IQZ89h
+CZUkf0nu/og8eoA8ATDA5g7fj3HXpQ6cYdrUBaHc7ruxHOiWR0GcT4XK4TTz7zZTO1wWPV
iprUo6ayw0dYZSG22MeDA027YirM044Ifosn9CsqnNLZoOWvA2ao4ippDoBRqv5Hv6n0I3f
OAYS5nPq3jJtKQ5neqUYo0MrAkoKHo0h6zn0BfvisyB88aM9N0mPD76ykbAERq7151biKbA
2tk8bb9dy/sJmk2ojM/D/W1YtrNL4iM6azL2kVN5eiChxCOF33/RuRpXfGR8YNeJTL7bq42
wL70QKDBRoG1TPcLqdVqz74oshlRspfqvZsbsUatbASbt2T0YG4zfgfGh7sb2ezyougVvzd
p77wAJ6n39dc/ZLDdYDzFkQb07984y8LlhIM1AcwFcmh43gWp6A8CJ02174ednirSqsVOPZ
7K9dRw6Y0X8MB4/WGzEcvFeHYIGLBCXilSBy5wjWnbeuhlWLiSkMDQRB6oGOvF7bJsilKx5
PwgWbbqW8KUSuU01skbMAa5T8Hkm4OiSTf2a78E0zIKLGZg7yu9FDIItWYWOKG96MXEBADo
uH+wWYmaEexh51ONrffwKDuDMZh7MO20TTEQU8oQdjRRoAofXvTcj22GSMTY6XleskZX2ZK
xSQdD1tCtkjGRKHSTYza3zLHbBiJTIJw4z6sw9FyTTApG66UAKntiMalr9nqTTNaxRWEXME
QVRLzAL2F9aqjgW65xrbYXu/J9Y/SYTCyBx2SRA/JkQ+Y8F68KOoS1pvK1p5/FcEdvprTND
S41f+aj3HNWuK5wOsrpBhMlb2IfluK/9QwPh9IC/RhHRfimyTPRXAf73cehNdp8DpKwLm+j
r30vazFwICpvSbi6Etb6GXfPkKaX7ztpQBqG92m2/0g3LWfPtilzwrPHPBz8y1qQMU268Do
o8YvWtI4KGaDAFb6XQhR6t6mqoq/3IP6/g//PZVENsYUVsPLDJLLF9fiOwTbMZnaiscKv8S
GEs//B9JkKrdSRRQRZcnnPjJnJLILblRVAZGuXpSKSYVPzYmOjUx3sSeLSiPoSOcqRIJ0X3
s4ED092W3tR4ZXK3fnkFyrIVtRJsB3k/2smiQ6Pc1VuKhh1yTzYjXKRQcDaY3EDP9IWftji
UfZQoZcijMWT6YXim23m2aNEd8qIedikR6OjFHE4Kus/2yegTszSs5CrM7NamKWzeIeNnt
h/cTcmTGDumsGNTBAShHSq1KYpqLi4GKLHzU7WNCQRdAcIDEvMZH/CHlmZK7bzb9z038rPf
/D5WZrcK1ttd5BjTJjj7GerS0xLkvYIklAJqurjMdWYmQtT4JAHF90/zRKqFFVpSiW074bR
Q+PfaLI5C+TwoX5lYD+R91A0qyGKIkiFITa8hZFY+Up+rSuREqnpAvdAVL9/gLpF6I+5+D+s
VBsGRbw2rFVRbCHdwaTQcAVPeJJy0f/+sOs/PXoejr3siORpf8iLLYOaziGYf1EtunFcClj
8PEOznaUyouJ+lM9YKPBLSLULC/sVVY6XUARyFJfq0Ag31YXpJeWPbORxVP/VCM8d/sNjWTQ
XGN/IjNZaZuliXNgq5nRkPBKwF23ZUYG4pLGPgROLup9nLSgEbpiDmN1Gq/IHSFI/8HpG/y
RAoCdqUdre3yL/f9caj8RBBHRYbbfRxyQ9u2vsrqo1oZ7F+Mu+kjuc9BxCMvJ7JaKwvQJc
kAkzTo6t10t6MzwiqJ7Au+2oOJ2Ukb/985+TFGS219fmqWfwisOfpuvSkjRj8vIDBBm9itK
IS+pVpfz+Mg7k13WmkUrgF3yjTH5/C51uaSzK2KeEVoWPx/Ps2CX7ATo6AsETp8Na38dT6d
+Dm4WM4sBieKt/yOEFhiBNkGPVKAqawKRvLW3U73OIKC8VLFhhnU+ogGxcUq5mZXvMbNDIa
U2LvtmtPPo/qL0bOYu76TKc1ZX0R6AXkeImQgRPsdeXPPANtW31a585oZbYxUXRfEIEKmc
v3eSGnPCVesbxxd1SaIJe2j7H9MbHdjYkeFQuECnUhKxg63BVPl/qAEIO5+OKBzm7ctuP8a
peGWliHAueKzJXc5IeFS/3iwkfdLRkrGzBeNIL0IINo3CoGSvn95Z8+LhNSopyqt3uB4rQk
sUYIwXgkfrEVYujCO0T5dSkk5j10X7W1Dm4DHZVLJH+GtL6v9A6xFJNDQfQF0hS+wLXkTKM
q7pUiX+Qohf8QRJZEyU5VWo2CesR63j1MFpkB3xybpbjt8oI47XC20GEn3uCjwMwq/3K4ib
Hnqi16pPPRgI/u3R9TVfvOC2e0xgl1rFG6cKUfoguUaXoxHqP1KKjUw23bpd9L09LzSDdShc
oDPokWzDee0ZP/Z6VH3rdjQR71kw4VBet8nKfLP2dGBd0tpWDQhCFK7I9axxxtHnv0v09x/
J7jhYoLRt5e8lMEfrqtnMwdqjFgYVEQndthZ+9/XvfNk6f5MD8fDheMuvbNThduFSZEcZCL
lW4GWNkneVji4wdBrV3aCrzAzxy0H7y7nnkyCEvac503UDtr1bk1VJIVsYfYrN2S2DPbp3H2
E8r/n6jfbilwFyp3JTJvnRqQTcYHXDieW8Njq46JO606wsPwKQTKMfHGxxTRJdRe5yvJD54
xvFWw1YEJ/Q2c8cr1NNXEN32e5psfIJ7o48k6bsiyXnbHKSjK781Z5h8Hc3FbUF2U2p5JqL
wcD7+bknEunsbWSC37iMk7oweF3hMhKRMm9iYJ8tpxMRcWCot7ador+Y2fYWBSu/bwXwcRI
08TElMCMGCSqGSib3DQEJFTEWBBRymjnJebJmrRwh4sRnwudfSQP6KDAxMCEwCQYFKw4DAh
oFAAQU+YFhgKEYjfxN/cL70yRrJSHFgUwECHeCTQnUEU0BAgiIAA==" ,

```

"client_id": "aaaaaaaa-bbbb-aaaa-bbbb-aaaaaaaaaaaa",
"client_secret": "abcdef",
"ekmip_reachability": {
  "code": "346758",
  "message": "embedded KMIP server status unavailable on node.",
  "node": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  }
},
"key_id": "https://keyvault1.vault.azure.net/keys/key1",
"name": "https://kmip-akv-keyvault.vault.azure.net/",
"proxy_host": "proxy.eng.com",
"proxy_password": "proxypassword",
"proxy_port": 1234,
"proxy_type": "http",
"proxy_username": "proxyuser",
"scope": "svm",
"state": {
  "code": "346758",
  "message": "Top-level internal key protection key (KEK) is
unavailable on the following nodes with the associated reasons: Node:
node1. Reason: No volumes created yet for the SVM. Wrapped KEK status
will be available after creating encrypted volumes."
},
"svm": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"tenant_id": "zzzzzzzz-yyyy-zzzz-yyyy-zzzzzzzzzzz",
"uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
}

```

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 | |

azure_reachability

Indicates whether or not the AKV service is reachable from all the nodes in the cluster. This is an advanced property; there is an added computational cost to retrieving its value. The property is not populated for either a collection GET or an instance GET unless it is explicitly requested using the `fields` query parameter or GET for all advanced properties is enabled.

| Name | Type | Description |
|-----------|---------|--|
| code | string | Code corresponding to the status message. Returns a 0 if AKV service is reachable from all nodes in the cluster. |
| message | string | Error message set when reachability is false. |
| reachable | boolean | Set to true when the AKV service is reachable from all nodes of the cluster. |

node

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |
| name | string | |
| uuid | string | |

ekmip_reachability

Provides the connectivity status for the given SVM on the given node to all EKMIP servers configured on all nodes of the cluster. This is an advanced property; there is an added computational cost to retrieving its value. The property is not populated for either a collection GET or an instance GET unless it is explicitly requested using the `fields` query parameter or GET for all advanced properties is enabled.

| Name | Type | Description |
|-----------|----------------------|---|
| code | string | Code corresponding to the error message. Returns a 0 if a given SVM is able to communicate to the EKMIP servers of all of the nodes in the cluster. |
| message | string | Error message set when cluster-wide EKMIP server availability from the given SVM and node is false. |
| node | node | |
| reachable | boolean | Set to true if the given SVM on the given node is able to communicate to all EKMIP servers configured on all nodes in the cluster. |

state

Indicates whether or not the AKV wrapped internal key is available cluster wide. This is an advanced property; there is an added computational cost to retrieving its value. The property is not populated for either a collection GET or an instance GET unless it is explicitly requested using the `fields` query parameter or GET for all advanced properties is enabled.

| Name | Type | Description |
|-----------|---------|--|
| available | boolean | Set to true when an AKV wrapped internal key is present on all nodes of the cluster. |
| code | string | Code corresponding to the status message. Returns a 0 if AKV wrapped key is available on all nodes in the cluster. |
| message | string | Error message set when top-level internal key protection key (KEK) availability on cluster is false. |

svm

| Name | Type | Description |
|------------------------|------------------------|----------------------|
| _links | _links | |
| name | string | The name of the SVM. |

| Name | Type | Description |
|------|--------|-----------------------------------|
| 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. |

Update the AKV configuration

PATCH /security/azure-key-vaults/{uuid}

Introduced In: 9.8

Updates the AKV configuration.

Optional properties

- `client_secret` - New secret used to prove the application's identity to the AKV.
- `client_certificate` - New PKCS12 certificate used to prove the application's identity to the AKV.
- `proxy_type` - Type of proxy (http, https etc.) if proxy configuration is used.
- `proxy_host` - Proxy hostname if proxy configuration is used.
- `proxy_port` - Proxy port number if proxy configuration is used.
- `proxy_username` - Proxy username if proxy configuration is used.
- `proxy_password` - Proxy password if proxy configuration is used.
- `client_id` - Application (client) ID of the deployed Azure application with appropriate access to an AKV.

- `tenant_id` - Directory (tenant) ID of the deployed Azure application with appropriate access to an AKV.

Related ONTAP commands

- `security key-manager external azure update-client-secret`
- `security key-manager external azure update-credentials`
- `security key-manager external azure update-config`

Parameters

| Name | Type | In | Required | Description |
|-----------------------------|---------|-------|----------|--|
| <code>uuid</code> | string | path | True | AKV UUID |
| <code>return_timeout</code> | integer | query | False | <p>The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202.</p> <ul style="list-style-type: none"> • Default value: 1 • Max value: 120 • Min value: 0 |

Request Body

| Name | Type | Description |
|-----------------------|---|--|
| _links | _links | |
| authentication_method | string | Authentication method for the AKV instance. |
| azure_reachability | azure_reachability | Indicates whether or not the AKV service is reachable from all the nodes in the cluster. This is an advanced property; there is an added computational cost to retrieving its value. The property is not populated for either a collection GET or an instance GET unless it is explicitly requested using the <code>fields</code> query parameter or GET for all advanced properties is enabled. |
| client_certificate | string | PKCS12 Certificate used by the application to prove its identity to AKV. |
| client_id | string | Application client ID of the deployed Azure application with appropriate access to an AKV. |
| client_secret | string | Secret used by the application to prove its identity to AKV. |
| ekmip_reachability | array[ekmip_reachability] | |
| key_id | string | Key Identifier of AKV key encryption key. |
| name | string | Name of the deployed AKV that will be used by ONTAP for storing keys. <ul style="list-style-type: none"> • example: https://kmip-akv-keyvault.vault.azure.net/ • format: uri • Introduced in: 9.8 • readCreate: 1 |
| proxy_host | string | Proxy host. |

| Name | Type | Description |
|----------------|-----------------------|--|
| proxy_password | string | Proxy password. Password is not audited. |
| proxy_port | integer | Proxy port. |
| proxy_type | string | Type of proxy. |
| proxy_username | string | Proxy username. |
| scope | string | Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster". |
| state | state | Indicates whether or not the AKV wrapped internal key is available cluster wide. This is an advanced property; there is an added computational cost to retrieving its value. The property is not populated for either a collection GET or an instance GET unless it is explicitly requested using the <code>fields</code> query parameter or GET for all advanced properties is enabled. |
| svm | svm | |
| tenant_id | string | Directory (tenant) ID of the deployed Azure application with appropriate access to an AKV. |
| uuid | string | A unique identifier for the Azure Key Vault (AKV). |

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "authentication_method": "client_secret",
  "azure_reachability": {
    "code": "346758",
    "message": "AKV service is not reachable from all nodes - reason."
  },
  "client_certificate":
  "MIIQKQIBAzCCD+8GCSqGSIb3DQEHAaCCD+AEgg/cmIIP2DCCBg8GCSqGSIb3DQEHbqCCBg
  AwggX8AgEAMIIF9QYJKoZIhvcNAQcBMBwGCiqGSIb3DQEMAQYwDgQIWKY7ojViJDYCAggAg
  IIFyJPjIfmM6yTCKVw5ep2oZLwvRca8pKhISVjw+WjWngh/f6Py/Ty0CwCjDFUZPsUUdSm
  k78E7SAz0CpQyBwmUuFJQShjZjftHLKRWld3O4sJKB8DzH9Yw1C7En94cyJ1rT4WYoVFmeJ
  cmOXx6h+NFHc7njtXVsKwxc5BF88K3+3kHdV3WyVdXoeXe7yY/+EjFfjtBryp81juielX/N
  Flh5kowhoj+yxn00c1/0OI1iV3mTIOTXD8qrZVp9ZhAxSTRBd5uDyWMfppqxW2L+9vCUU+Z
  gmRxtU3VsRLOp/T140OP7Sn1Ch2OE0bIrbYYticipi04QcUtfeJBMLbbTbJPHDAti02KIQKvi
  ZL4QMZgho9NNgL4MUpIbNSzDCbuIC+nNMXfgfs0nPZewY+b43H/tMmnZ8Q4kiCFwrUqbFbf
  lBiPMoaJsS0eQaJhDmzM90QEgbesHWgPreAcfMUcN1+BaqHFLHUxLXDxQix6zYiCAtdX6/E
  KlirRh1TFpmFX2PBd+X6uODhmwm4ub9RKj3In8t5qgtN4q/mTBXjAVDAbTIIegobBRaXGSS
  XCBc9W/jRed0DRZD9Bm8T/nV39sZNducwZa5ojYTX8fFMA0cfY6IFivXHjB00coHEEGdgCf
  C0G8vACqLbb+2NuhMJPtR7Ig50iAPUmC670Z5ItOTQhyYOZ/KagOtvV8sKPCzeAkcMoHlsm
  l89V79zt1fCJQTVWnaGiMj50rcbskk6vCxdGeU6q1kgvXJKXOYRF8/wIvp8Y7/rEpnGwE/
  IOZOxzdIDHXqA53B1zyOVem25ezWCD+kpoH89XJssY1NjIMJhjVRED61w/DbSXg2yFu/v3c
  kGapVvTuyAiz5hWUNfl3ptda6GoekKnLqtL4G/RGXCnebLbXg838dlTGBznoCwGTVxXDeVY
  afz8AjI10qYtTmcbN56ya9kK7IHSkrnFX24xQRQOfmD0Vob71pjdZ8r1aXKvD/1X2TkYJHo
  eEHq0nWpU8vwdG/xhv4YgKJGN9qsEZgiTXETUh5gak8eltGNkP+fum+10q105oS+Swna5/e
  B8eFeJ12Oi48Xi5UapaTRHPFp6kZfPXOu9cEjhILowRIi6glg7FUbmoJcu50vDIyP9JlyQk
  lw2VtgNlm1QOIvzRenXmy18XnP50NTxx2cIwby8tIcdSn2C2qhj8Gk7q8oxVZGiBgtz4Bwy
  zyKkypwm60BBRRhPakLw6JM5RISeZnYQfIsId0tGgb61go0Rjf0sFtbuvZcSvLI+2Onj8KH
  1TlmMR4dbuCWE9Ym4sVRmD1D6/f6BoNH0DRg7TJkEFbOadJsNPGzHbKteLdaSMGTNUZ3hED
  QeomakQMfvCgypbOLxrtTqfbenHRtN+iFNYW0zCUW6EJoAXp+lqFnwQL52I12QxwZike01P
  2k0GharzAJkXnNaFGnmHIIP6wJrCCSDZwDmr7GI2R5evDlRi17QUg2sulxQV0U8zezzwIUg
  Ee/Whf0ngGJv/QcsL2jyri/tSQbUWs4g+yep4S1E3iddhfqSjzI2iKdAE+HLiHGVO1z70fG
  Es06dPLnmh4eoWidgZi9N/SoBy1aT0JpIQ6z6N5ImpfdWu9Y6TWXUg1iyOIXGsxiQVIgUNo
  B5Ru/ApDxpYpFLk0fH9k9OnEWK5Im33puOQKLno1uwrOmdbG8+x1EY8wc9FvkHGH0Zh4Hyd
  iCVUcYsdiGWUxVmgm4OgyiYzcpB+Ar2dzikGc4pBg8fa1a1HN5Q3TK3w4h/HeOUlMA4vWOY
  uV01H93ILGP6Pwfkgu+1Tam6+8yD0W5meiz0UIZR8TF/9gDb4+4wTFnPgwfTrggEauA8tt8
  uJtiyBCrYexgZTXIZGTUj/86KXQaJKCreRr/kqwJOWqkNW4CGUVzw7LiI+SArOZqUp/Tsxn
  bNC73XCMN1PsnByb2zCeK13V26Cr184U9sDuqQTJRaIse01MN9AAjpa2QWEwgggnBBgkqhki
  G9w0BBwGgggmyBIIJrjCCCAowggmmBgsqhkig9w0BDAoBAqCCCW4wgg1qMBwGCiqGSIb3DQ
  EMAQMwDgQIEjM88b1+pnkCAggABIIJSDD3P+vn1lSolmQvmYgZVfV37T3KpurJvMxQScPva
```

lWiF7Q1Iwasf/+N0hKKNr2j/aGZLunLkaG6mLPeBP212LCwnUxDu5kYffVVE90WX/bXewBY
QribwFNkNhUrSgen8BfhnRlvDrzbBLoHIvDrUFszSVBCYh31Vwgu8p9SjC8K/XluncLdjSF
ko85XpoK23euhowjWH+X0kRoYGzorcdNE8z03BKvfr61W2XWzTSaWQ6eZHG6UrnX5Fe/w5
0U9tMIi3BCCCqgapUHVdmHqKkmWLiKX8LssUcN30JVekM2aJ9v4YO6CoegKAMVDs0tVSOv3
KbGC3GNX6lgHu4y1LOZPlPlfPXb0wDHqavlXK3zph18sIRZuX3HXSdEdenHYAkSV/IQZ89h
+CZUkf0nu/og8eoA8ATDA5g7fj3HXpQ6cYdrUBaHc7ruxHOiWR0GcT4XK4TTz7zZTO1wWPV
iprUo6ayw0dYZSG22MeDA027YirM044Ifosn9CsqnNLZoOWvA2ao4ippDoBRqv5Hv6n0I3f
OAYS5nPq3jJtKQ5neqUYo0MrAkoKHO0h6zn0BfvisyB88aM9N0mPD76ykbAERq7151biKbA
2tk8bb9dy/sJmk2ojM/D/W1YtrNL4iM6azL2kVN5eiChxCOF33/RuRpXfGR8YNeJTL7bq42
wL70QKDBRoG1TPcLqdVqz74oshlRspfqvZsbsUatbASbt2T0YG4zfgfGh7sb2ezyougVvzd
p77wAJ6n39dc/ZLDdYDzFkQb07984y8LlhIM1AcwFcmh43gWp6A8CJ02174ednirSqsVOPZ
7K9dRw6Y0X8MB4/WGzEcvFeHYIGLBCXilSBy5wjWnbeuhlWLiSkMDQRb6oGOvF7bJsilKx5
PwgWbbqW8KUSuU01skbMAa5T8Hkm4OiSTf2a78E0zIKLGZg7yu9FDIIItWYWokG96MXEBAdO
uH+wWYmaEexh51ONrffwKDuDMzh7MO20TTEQU8oQdjRRoAofXvTcj22GSMTY6XleskZX2ZK
xSQdD1tCtkjGRKHSTYza3zLHbBiJTIJw4z6sw9FyTTApG66UAKntiMalr9nqTTNaxRWEXME
QVRLzAL2F9aqjgW65xrbYXu/J9Y/SYTCyBx2SRA/JkQ+Y8F68KOoS1pvK1p5/FcEdvprTND
S41f+aj3HNWuK5wOsrpBhMlb2IfluK/9QwPh9IC/RhHRfimyTPRXAf73cehNdp8DpKwLm+j
r30vazFwICpvSbi6Etb6GXfPkKaX7ztpQBqG92m2/0g3LWfPtilzwrPHPBz8y1qQMU268Do
o8YvWtI4KGaDAFb6XQhR6t6mqoq/3IP6/g//PZVENsYUVsPLDJLLF9fiOwTbMZnaiscKv8S
GEs//B9JkKrdSRRQRZcnnPjJnJLILblRVAZGuXpSKSYVPzYmOjUx3sSeLSiPoSOcqRIJ0X3
s4ED092W3tR4ZXK3fnkFyrIVtRJsB3k/2smiQ6Pc1VuKhh1yTzYjXKRQcDaY3EDP9IWftji
UfZQoZcijMwt6YXim23m2aN2Ed8qIedikR6OjFHE4Kus/2yegTszSs5CrM7NamKWzeIeNnt
h/cTcmTGDumsGNTBAShHsq1KYpqLi4GKLHzU7WNCQRdAcIDEvMZH/CHlmZK7bzb9z038rPf
/D5WZrcK1ttd5BjTJjj7GerS0xLkvYIklAJqurjMdWYmQtT4JAHF90/zRKqFFVpSiW074bR
Q+PfaLI5C+TwoX5lYD+R91A0qyGKIkiFITa8hZFY+Up+rSuREqnpAvdAVL9/gLpF6I+5+D+s
VBsGRbw2rFVRbCHdwaTQcAVPeJjy0f/+sOs/PXoejr3siORpf8iLLYOaziGYf1EtunFcClj
8PEOznaUyouJ+lM9YKPBsLULC/sVVY6XUARyFJfq0Ag31YXpJeWPbORxVP/VCm8d/sNjWTQ
XGN/IjNZaZuliXNgq5nRkPBKwF23ZUYG4pLGPgROLup9nLSgEbpiDmN1Gq/IHSFI/8HpG/y
RAoCdqUdre3yL/f9caj8RBBHRYbbfRxyQ9u2vsrqo1oZ7F+Mu+kjuc9BxCMvJ7JaKwvQJc
kAkzTo6t10t6MzwiqJ7Au+2oOJ2Ukb/985+TFGS219fmqWfwisOfpuvSkjRj8vIDBm9itK
IS+pVpfz+Mg7k13WmkUrgF3yjTH5/C51uaSzK2KeEVoWPx/Ps2CX7ATo6AsETp8Na38dT6d
+Dm4WM4sBieKt/yOEFhiBNkGPVKAqawKRvLW3U73OIKC8VLFhhu+ogGxcUq5mZXvMbNDIa
U2LvtmtPPo/qL0bOYu76TKc1ZXOR6AXkeImQgRPsdeXPPANtW31a585oZbYxUXRfEIEKmc
v3eSGnPCVesbxxd1SaIJe2j7H9MbHdjYkeFQuECnUhKxg63BVPl/qAEIO5+OKBzm7ctuP8a
peGWliHAueKzJXc5IeFS/3iwkfdLRkrGzBenILOIINo3CoGSvn95Z8+LhNSopyqt3uB4rQk
sUYIwXgkfrEVYujCO0T5dSkk5j10X7W1Dm4DHZVLJH+GtL6v9A6xFJNDQfQF0hS+wLXkTKM
q7pUiX+Qohf8QRJZEyU5VWo2CesR63j1MFpkB3xybpbjt8oI47XC20GEn3uCjwMwq/3K4ib
Hnqi16pPPRgI/u3R9TVfvOC2e0xgl1rFG6cKUfoguUaXoxHqP1KKjUw23bpd9L09LzSDdShc
oDPokWzDee0ZP/Z6VH3rdjQR71kw4VBet8nKfLP2dGBd0tpWDQhCFK7I9axxxthnv0v09x/
J7jhyoLRt5e8lMEfrqtnMwdqjFgYVEQndthZ+9/XvfNk6f5MD8fDheMuvbnThduFSZEcZCL
lW4GwkneVji4wdBrV3aCrzAzxy0H7y7nnkyCEvac503UDtr1bk1VJIVsYfYrN2S2DPbp3H2
E8r/n6jfbilwFyp3JTJvnRqQTcYHXDieW8Njq46JO606wsPwKQTKMfHGxxTRJdRe5yvJD54
xvFWw1YEJ/Q2c8cr1NNXEN32e5psfIJ7o48k6bsiyXnbHKSjK781Z5h8Hc3FbUF2U2p5JqL
wcD7+bknEunsbWSC37imk7oweF3hMhKRMm9iYJ8tpxMRcWCot7ador+Y2fYWBSu/bwXwCRI
08TElMCMGCSqGSib3DQEJFTEWBBRymjnEbJmrRwh4sRnwudfSQP6KDAxMCEwCQYFKw4DAh
oFAAQU+YFhgKEYjfxN/cL70yRrJSHFgUwECHeCTQnUEU0BAgiIAA==" ,


```

"client_id": "aaaaaaaa-bbbb-aaaa-bbbb-aaaaaaaaaaaa",
"client_secret": "abcdef",
"ekmip_reachability": {
  "code": "346758",
  "message": "embedded KMIP server status unavailable on node.",
  "node": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  }
},
"key_id": "https://keyvault1.vault.azure.net/keys/key1",
"name": "https://kmip-akv-keyvault.vault.azure.net/",
"proxy_host": "proxy.eng.com",
"proxy_password": "proxypassword",
"proxy_port": 1234,
"proxy_type": "http",
"proxy_username": "proxyuser",
"scope": "svm",
"state": {
  "code": "346758",
  "message": "Top-level internal key protection key (KEK) is
unavailable on the following nodes with the associated reasons: Node:
node1. Reason: No volumes created yet for the SVM. Wrapped KEK status
will be available after creating encrypted volumes."
},
"svm": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"tenant_id": "zzzzzzzz-yyyy-zzzz-yyyy-zzzzzzzzzzzz",
"uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
}

```

Response

Status: 200, Ok

Response

Status: 202, Accepted

Error

Status: Default

ONTAP Error Response Codes

| Error Code | Description |
|------------|--|
| 65537120 | Azure Key Vault is not configured for the given SVM. |
| 65537504 | Internal error. Failed to store configuration in internal database. |
| 65537517 | The field "client_secret" must be specified. |
| 65537540 | Invalid client secret. |
| 65537541 | No inputs were provided for the patch request. |
| 65537547 | One or more volume encryption keys for encrypted volumes of this data SVM are stored in the key manager configured for the admin SVM. Use the REST API POST method to migrate this data SVM's keys from the admin SVM's key manager to this data SVM's key manager before running the rekey operation. |
| 65537573 | Invalid client certificate. |
| 65537577 | The AKV certificate authentication method cannot be configured for the given SVM as not all nodes in the cluster support the AKV certificate authentication. |

| 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 | |

azure_reachability

Indicates whether or not the AKV service is reachable from all the nodes in the cluster. This is an advanced property; there is an added computational cost to retrieving its value. The property is not populated for either a collection GET or an instance GET unless it is explicitly requested using the `fields` query parameter or GET for all advanced properties is enabled.

| Name | Type | Description |
|-----------|---------|--|
| code | string | Code corresponding to the status message. Returns a 0 if AKV service is reachable from all nodes in the cluster. |
| message | string | Error message set when reachability is false. |
| reachable | boolean | Set to true when the AKV service is reachable from all nodes of the cluster. |

node

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |
| name | string | |
| uuid | string | |

ekmip_reachability

Provides the connectivity status for the given SVM on the given node to all EKMIP servers configured on all nodes of the cluster. This is an advanced property; there is an added computational cost to retrieving its value. The property is not populated for either a collection GET or an instance GET unless it is explicitly requested using the `fields` query parameter or GET for all advanced properties is enabled.

| Name | Type | Description |
|-----------|----------------------|---|
| code | string | Code corresponding to the error message. Returns a 0 if a given SVM is able to communicate to the EKMIP servers of all of the nodes in the cluster. |
| message | string | Error message set when cluster-wide EKMIP server availability from the given SVM and node is false. |
| node | node | |
| reachable | boolean | Set to true if the given SVM on the given node is able to communicate to all EKMIP servers configured on all nodes in the cluster. |

state

Indicates whether or not the AKV wrapped internal key is available cluster wide. This is an advanced property; there is an added computational cost to retrieving its value. The property is not populated for either a collection GET or an instance GET unless it is explicitly requested using the `fields` query parameter or GET for all advanced properties is enabled.

| Name | Type | Description |
|-----------|---------|--|
| available | boolean | Set to true when an AKV wrapped internal key is present on all nodes of the cluster. |
| code | string | Code corresponding to the status message. Returns a 0 if AKV wrapped key is available on all nodes in the cluster. |
| message | string | Error message set when top-level internal key protection key (KEK) availability on cluster is false. |

svm

| Name | Type | Description |
|------------------------|------------------------|----------------------|
| _links | _links | |
| name | string | The name of the SVM. |

| Name | Type | Description |
|------|--------|-----------------------------------|
| uuid | string | The unique identifier of the SVM. |

azure_key_vault

| Name | Type | Description |
|-----------------------|---|--|
| _links | _links | |
| authentication_method | string | Authentication method for the AKV instance. |
| azure_reachability | azure_reachability | Indicates whether or not the AKV service is reachable from all the nodes in the cluster. This is an advanced property; there is an added computational cost to retrieving its value. The property is not populated for either a collection GET or an instance GET unless it is explicitly requested using the <code>fields</code> query parameter or GET for all advanced properties is enabled. |
| client_certificate | string | PKCS12 Certificate used by the application to prove its identity to AKV. |
| client_id | string | Application client ID of the deployed Azure application with appropriate access to an AKV. |
| client_secret | string | Secret used by the application to prove its identity to AKV. |
| ekmip_reachability | array[ekmip_reachability] | |
| key_id | string | Key Identifier of AKV key encryption key. |

| Name | Type | Description |
|----------------|-----------------------|--|
| name | string | Name of the deployed AKV that will be used by ONTAP for storing keys. <ul style="list-style-type: none"> • example: https://kmip-akv-keyvault.vault.azure.net/ • format: uri • Introduced in: 9.8 • readCreate: 1 |
| proxy_host | string | Proxy host. |
| proxy_password | string | Proxy password. Password is not audited. |
| proxy_port | integer | Proxy port. |
| proxy_type | string | Type of proxy. |
| proxy_username | string | Proxy username. |
| scope | string | Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster". |
| state | state | Indicates whether or not the AKV wrapped internal key is available cluster wide. This is an advanced property; there is an added computational cost to retrieving its value. The property is not populated for either a collection GET or an instance GET unless it is explicitly requested using the <code>fields</code> query parameter or GET for all advanced properties is enabled. |
| svm | svm | |
| tenant_id | string | Directory (tenant) ID of the deployed Azure application with appropriate access to an AKV. |
| uuid | string | A unique identifier for the Azure Key Vault (AKV). |

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. |

Re-key the internal key in the key hierarchy for an SVM

POST /security/azure-key-vaults/{uuid}/rekey-internal

Introduced In: 9.10

Rekeys the internal key in the key hierarchy for an SVM with an AKV configuration.

Related ONTAP commands

- `security key-manager external azure rekey-internal`

Parameters

| Name | Type | In | Required | Description |
|------|--------|------|----------|---|
| uuid | string | path | True | UUID of the existing AKV configuration. |

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|--|
| return_timeout | integer | query | False | <p>The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202.</p> <ul style="list-style-type: none"> • Default value: 1 • Max value: 120 • Min value: 0 |
| 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: |

Response

```
Status: 202, Accepted
```

Error

Status: Default

ONTAP Error Response Codes

| Error Code | Description |
|------------|--|
| 65537120 | Azure Key Vault is not configured for the given SVM. |
| 65537547 | One or more volume encryption keys for encrypted volumes of this data SVM are stored in the key manager configured for the admin SVM. Use the REST API POST method to migrate this data SVM's keys from the admin SVM's key manager to this data SVM's key manager before running the rekey operation. |
| 65537559 | There are no existing internal keys for the SVM. A rekey operation is allowed for an SVM with one or more encryption keys. |

| 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. |

Restore keys for an SVM from a configured AKV

POST /security/azure-key-vaults/{uuid}/restore

Introduced In: 9.10

Restore the keys for an SVM from a configured AKV.

Related ONTAP commands

- `security key-manager external azure restore`

Parameters

| Name | Type | In | Required | Description |
|------|--------|------|----------|---|
| uuid | string | path | True | UUID of the existing AKV configuration. |

| Name | Type | In | Required | Description |
|----------------|---------|-------|----------|--|
| return_timeout | integer | query | False | <p>The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202.</p> <ul style="list-style-type: none"> • Default value: 1 • Max value: 120 • Min value: 0 |
| 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: |

Response

```
Status: 202, Accepted
```

Error

Status: Default

ONTAP Error Response Codes

| Error Code | Description |
|------------|---|
| 65537120 | Azure Key Vault is not configured for the given SVM. |
| 65537515 | Failed to restore keys on some nodes in the cluster. |
| 65537544 | Missing wrapped top-level internal key protection key (KEK) from internal database. |

| 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. |

Copyright information

Copyright © 2024 NetApp, Inc. All Rights Reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means—graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system—without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP “AS IS” AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

LIMITED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (b)(3) of the Rights in Technical Data -Noncommercial Items at DFARS 252.227-7013 (FEB 2014) and FAR 52.227-19 (DEC 2007).

Data contained herein pertains to a commercial product and/or commercial service (as defined in FAR 2.101) and is proprietary to NetApp, Inc. All NetApp technical data and computer software provided under this Agreement is commercial in nature and developed solely at private expense. The U.S. Government has a non-exclusive, non-transferrable, nonsublicensable, worldwide, limited irrevocable license to use the Data only in connection with and in support of the U.S. Government contract under which the Data was delivered. Except as provided herein, the Data may not be used, disclosed, reproduced, modified, performed, or displayed without the prior written approval of NetApp, Inc. United States Government license rights for the Department of Defense are limited to those rights identified in DFARS clause 252.227-7015(b) (FEB 2014).

Trademark information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.