## Object User - Working with Management API via LDAP/AD Authentication Provider

Authenticate as domain user (obtain token for subsequent requests)

curl -L --location-trusted -k https://10.1.83.51:4443/login -u "robin@gotham.local:Password1" –v

\* Hostname was NOT found in DNS cache

\* Trying 10.1.83.51...

\* Connected to 10.1.83.51 (10.1.83.51) port 4443 (#0)

\* successfully set certificate verify locations:

\* CAfile: none

 CApath: /etc/ssl/certs/

\* SSLv3, TLS handshake, Client hello (1):

\* SSLv3, TLS handshake, Server hello (2):

\* SSLv3, TLS handshake, CERT (11):

\* SSLv3, TLS handshake, Server key exchange (12):

\* SSLv3, TLS handshake, Server finished (14):

\* SSLv3, TLS handshake, Client key exchange (16):

\* SSLv3, TLS change cipher, Client hello (1):

\* SSLv3, TLS handshake, Finished (20):

\* SSLv3, TLS change cipher, Client hello (1):

\* SSLv3, TLS handshake, Finished (20):

\* SSL connection using TLSv1.0 / ECDHE-RSA-AES256-SHA

\* Server certificate:

\* subject: C=US; ST=MA; L=Hopkinton; O=EMC; CN=meatgrinder.com; emailAddress=joseph.conery@dell.com

\* start date: 2016-10-06 16:09:32 GMT

\* expire date: 2016-11-05 16:09:32 GMT

\* issuer: C=US; ST=MA; L=Hopkinton; O=EMC; CN=meatgrinder.com; emailAddress=joseph.conery@dell.com

\* SSL certificate verify result: unable to get local issuer certificate (20), continuing anyway.

\* Server auth using Basic with user 'robin@gotham.local'

> GET /login HTTP/1.1

> Authorization: Basic cm9iaW5AZ290aGFtLmxvY2FsOlBhc3N3b3JkMQ==

> User-Agent: curl/7.37.0

> Host: 10.1.83.51:4443

> Accept: \*/\*

>

< HTTP/1.1 200 OK

< Date: Fri, 26 May 2017 15:41:45 GMT

< Content-Type: application/xml

< Content-Length: 107

< Connection: keep-alive

< X-SDS-AUTH-TOKEN: BAAcU2dGb2VRWDQwVENSdXJ1bVhoWm5YMDFaeUM4PQMAjAQASHVybjpzdG9yYWdlb3M6VmlydHVhbERhdGFDZW50ZXJEYXRhOjQwN2I2YjZjLWJkYTQtNGJhNC04OWY3LTIyMGFjM2Q5YzA0NAIADTE0OTU3NjkxMjY0OTgDAC51cm46VG9rZW46YzUyMTI3MTctYTMxNC00YjkwLWEwMmUtYWEzNjRkNGEzYjAyAgAC0A8=

<

\* Connection #0 to host 10.1.83.51 left intact

<?xml version="1.0" encoding="UTF-8" standalone="yes"?><loggedIn><user>robin@gotham.local</user></loggedIn>

Generate first key

curl -k -X POST https://10.1.83.51:4443/object/secret-keys -H "X-SDS-AUTH-TOKEN: BAAcU2dGb2VRWDQwVENSdXJ1bVhoWm5YMDFaeUM4PQMAjAQASHVybjpzdG9yYWdlb3M6VmlydHVhbERhdGFDZW50ZXJEYXRhOjQwN2I2YjZjLWJkYTQtNGJhNC04OWY3LTIyMGFjM2Q5YzA0NAIADTE0OTU3NjkxMjY0OTgDAC51cm46VG9rZW46YzUyMTI3MTctYTMxNC00YjkwLWEwMmUtYWEzNjRkNGEzYjAyAgAC0A8=" -H "Content-Type: application/json" --data-binary "{}" | xmllint --format –

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>

<user\_secret\_key>

 <link rel="self" href="/object/user-secret-keys/robin@gotham.local"/>

 <secret\_key>NfSXkLeVB4Z+dekBZxZKWbrCtu1lFVgMgnKKCr8y</secret\_key>

 <key\_expiry\_timestamp/>

 <key\_timestamp>2017-05-26 15:52:55.736</key\_timestamp>

</user\_secret\_key>

Generate second key (set expiration of first key)

curl -k -X POST https://10.1.83.51:4443/object/secret-keys -H "X-SDS-AUTH-TOKEN: BAAcU2dGb2VRWDQwVENSdXJ1bVhoWm5YMDFaeUM4PQMAjAQASHVybjpzdG9yYWdlb3M6VmlydHVhbERhdGFDZW50ZXJEYXRhOjQwN2I2YjZjLWJkYTQtNGJhNC04OWY3LTIyMGFjM2Q5YzA0NAIADTE0OTU3NjkxMjY0OTgDAC51cm46VG9rZW46YzUyMTI3MTctYTMxNC00YjkwLWEwMmUtYWEzNjRkNGEzYjAyAgAC0A8=" -H "Content-Type: application/json" --data-binary "{\"existing\_key\_expiry\_time\_mins\": 10}" | xmllint --format –

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>

<user\_secret\_key>

 <link rel="self" href="/object/user-secret-keys/robin@gotham.local"/>

 <secret\_key>pH/T/T62ysImhqy8sWRYSpC1ypjL1QdW6YgTBHRs</secret\_key>

 <key\_expiry\_timestamp/>

 <key\_timestamp>2017-05-26 15:58:59.237</key\_timestamp>

</user\_secret\_key>

List secret keys

curl -k https://10.1.83.51:4443/object/secret-keys -H "X-SDS-AUTH-TOKEN: BAAcU2dGb2VRWDQwVENSdXJ1bVhoWm5YMDFaeUM4PQMAjAQASHVybjpzdG9yYWdlb3M6VmlydHVhbERhdGFDZW50ZXJEYXRhOjQwN2I2YjZjLWJkYTQtNGJhNC04OWY3LTIyMGFjM2Q5YzA0NAIADTE0OTU3NjkxMjY0OTgDAC51cm46VG9rZW46YzUyMTI3MTctYTMxNC00YjkwLWEwMmUtYWEzNjRkNGEzYjAyAgAC0A8=" | xmllint --format –

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>

<user\_secret\_keys>

 <secret\_key\_1>NfSXkLeVB4Z+dekBZxZKWbrCtu1lFVgMgnKKCr8y</secret\_key\_1>

 <secret\_key\_2>pH/T/T62ysImhqy8sWRYSpC1ypjL1QdW6YgTBHRs</secret\_key\_2>

 <key\_expiry\_timestamp\_1>2017-05-26 16:08:59.147</key\_expiry\_timestamp\_1>

 <key\_expiry\_timestamp\_2/>

 <key\_timestamp\_1>2017-05-26 15:52:55.736</key\_timestamp\_1>

 <key\_timestamp\_2>2017-05-26 15:58:59.237</key\_timestamp\_2>

 <link rel="self" href="/object/secret-keys"/>

</user\_secret\_keys>

Delete a secret key (pass {} to delete all}

curl -k -X POST https://10.1.83.51:4443/object/secret-keys/deactivate -H "X-SDS-AUTH-TOKEN: BAAcU2dGb2VRWDQwVENSdXJ1bVhoWm5YMDFaeUM4PQMAjAQASHVybjpzdG9yYWdlb3M6VmlydHVhbERhdGFDZW50ZXJEYXRhOjQwN2I2YjZjLWJkYTQtNGJhNC04OWY3LTIyMGFjM2Q5YzA0NAIADTE0OTU3NjkxMjY0OTgDAC51cm46VG9rZW46YzUyMTI3MTctYTMxNC00YjkwLWEwMmUtYWEzNjRkNGEzYjAyAgAC0A8=" -H "Content-Type: application/json" --data-binary "{\"secret\_key\": \"pH/T/T62ysImhqy8sWRYSpC1ypjL1QdW6YgTBHRs\"}"

## Management User - Working with Management API via LDAP/AD Authentication Provider

Authenticate as domain user (obtain token for subsequent requests)

curl -L --location-trusted -k https://10.1.83.51:4443/login -u "lex.luthor@gotham.local:Password1" –v

\* Hostname was NOT found in DNS cache

\* Trying 10.1.83.51...

\* Connected to 10.1.83.51 (10.1.83.51) port 4443 (#0)

\* successfully set certificate verify locations:

\* CAfile: none

 CApath: /etc/ssl/certs/

\* SSLv3, TLS handshake, Client hello (1):

\* SSLv3, TLS handshake, Server hello (2):

\* SSLv3, TLS handshake, CERT (11):

\* SSLv3, TLS handshake, Server key exchange (12):

\* SSLv3, TLS handshake, Server finished (14):

\* SSLv3, TLS handshake, Client key exchange (16):

\* SSLv3, TLS change cipher, Client hello (1):

\* SSLv3, TLS handshake, Finished (20):

\* SSLv3, TLS change cipher, Client hello (1):

\* SSLv3, TLS handshake, Finished (20):

\* SSL connection using TLSv1.0 / ECDHE-RSA-AES256-SHA

\* Server certificate:

\* subject: C=US; ST=MA; L=Hopkinton; O=EMC; CN=meatgrinder.com; emailAddress=joseph.conery@dell.com

\* start date: 2016-10-06 16:09:32 GMT

\* expire date: 2016-11-05 16:09:32 GMT

\* issuer: C=US; ST=MA; L=Hopkinton; O=EMC; CN=meatgrinder.com; emailAddress=joseph.conery@dell.com

\* SSL certificate verify result: unable to get local issuer certificate (20), continuing anyway.

\* Server auth using Basic with user 'lex.luthor@gotham.local'

> GET /login HTTP/1.1

> Authorization: Basic bGV4Lmx1dGhvckBnb3RoYW0ubG9jYWw6UGFzc3dvcmQx

> User-Agent: curl/7.37.0

> Host: 10.1.83.51:4443

> Accept: \*/\*

>

< HTTP/1.1 200 OK

< Date: Fri, 26 May 2017 17:28:33 GMT

< Content-Type: application/xml

< Content-Length: 112

< Connection: keep-alive

< X-SDS-AUTH-TOKEN: BAAcbWhlZzJNeVNEV3FNUWhLY0pwaS8zR1hsYnhRPQMAjAQASHVybjpzdG9yYWdlb3M6VmlydHVhbERhdGFDZW50ZXJEYXRhOjQwN2I2YjZjLWJkYTQtNGJhNC04OWY3LTIyMGFjM2Q5YzA0NAIADTE0OTU3NjkxMjY0OTgDAC51cm46VG9rZW46NzNjMWE5YjktMTQyZC00OGRjLTg2NDEtYjVjNWVmMzM4YzE1AgAC0A8=

<

\* Connection #0 to host 10.1.83.51 left intact

<?xml version="1.0" encoding="UTF-8" standalone="yes"?><loggedIn><user>lex.luthor@gotham.local</user>

Create a namespace

cat namespace.xml

<namespace\_create>

 <namespace>gotham-justice</namespace>

 <default\_data\_services\_vpool>urn:storageos:ReplicationGroupInfo:1068238b-fdc4-4258-a044-41d0ee81d7bc:global</default\_data\_services\_vpool>

 <external\_group\_admins>justiceleague@gotham.local</external\_group\_admins>

</namespace\_create>

curl -k -X POST https://10.1.83.51:4443/object/namespaces/namespace -H "X-SDS-AUTH-TOKEN: BAAcbWhlZzJNeVNEV3FNUWhLY0pwaS8zR1hsYnhRPQMAjAQASHVybjpzdG9yYWdlb3M6VmlydHVhbERhdGFDZW50ZXJEYXRhOjQwN2I2YjZjLWJkYTQtNGJhNC04OWY3LTIyMGFjM2Q5YzA0NAIADTE0OTU3NjkxMjY0OTgDAC51cm46VG9rZW46NzNjMWE5YjktMTQyZC00OGRjLTg2NDEtYjVjNWVmMzM4YzE1AgAC0A8=" -H "Content-Type: application/xml" --data @namespace.xml | xmllint --format -

<namespace>

 <id>gotham-justice</id>

 <inactive>false</inactive>

 <link rel="self" href="/object/namespaces/namespace/gotham-justice"/>

 <name>gotham-justice</name>

 <default\_bucket\_block\_size>-1</default\_bucket\_block\_size>

 <external\_group\_admins>justiceleague@gotham.local</external\_group\_admins>

 <is\_compliance\_enabled>false</is\_compliance\_enabled>

 <is\_encryption\_enabled>false</is\_encryption\_enabled>

 <is\_stale\_allowed>false</is\_stale\_allowed>

 <default\_data\_services\_vpool>urn:storageos:ReplicationGroupInfo:1068238b-fdc4-4258-a044-41d0ee81d7bc:global</default\_data\_services\_vpool>

</namespace>

Create a bucket

cat bucket.xml

<object\_bucket\_create>

 <name>justice-bucket</name>

 <vpool>urn:storageos:ReplicationGroupInfo:1068238b-fdc4-4258-a044-41d0ee81d7bc:global</vpool>

 <owner>robin@gotham.local</owner>

 <head\_type>s3</head\_type>

 <namespace>gotham-justice</namespace>

 <is\_stale\_allowed>false</is\_stale\_allowed>

</object\_bucket\_create>

curl -k -X POST https://10.1.83.51:4443/object/bucket -H "X-SDS-AUTH-TOKEN: BAAcbWhlZzJNeVNEV3FNUWhLY0pwaS8zR1hsYnhRPQMAjAQASHVybjpzdG9yYWdlb3M6VmlydHVhbERhdGFDZW50ZXJEYXRhOjQwN2I2YjZjLWJkYTQtNGJhNC04OWY3LTIyMGFjM2Q5YzA0NAIADTE0OTU3NjkxMjY0OTgDAC51cm46VG9rZW46NzNjMWE5YjktMTQyZC00OGRjLTg2NDEtYjVjNWVmMzM4YzE1AgAC0A8=" -H "Content-Type: application/xml" --data @bucket.xml | xmllint --format –

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>

<object\_bucket>

 <id>gotham-justice.justice-bucket</id>

 <inactive>false</inactive>

 <name>justice-bucket</name>

 <metaData>

 <search\_enabled>false</search\_enabled>

 <max\_keys>0</max\_keys>

 </metaData>

 <TagSet/>

</object\_bucket>

Delete a bucket

curl -k -X POST https://10.1.83.51:4443/object/bucket/justice-bucket/deactivate?namespace=gotham-justice -H "X-SDS-AUTH-TOKEN: BAAcbWhlZzJNeVNEV3FNUWhLY0pwaS8zR1hsYnhRPQMAjAQASHVybjpzdG9yYWdlb3M6VmlydHVhbERhdGFDZW50ZXJEYXRhOjQwN2I2YjZjLWJkYTQtNGJhNC04OWY3LTIyMGFjM2Q5YzA0NAIADTE0OTU3NjkxMjY0OTgDAC51cm46VG9rZW46NzNjMWE5YjktMTQyZC00OGRjLTg2NDEtYjVjNWVmMzM4YzE1AgAC0A8="

Delete a namespace

curl -k -X POST https://10.1.83.51:4443/object/namespaces/namespace/gotham-justice/deactivate -H "X-SDS-AUTH-TOKEN: BAAcbWhlZzJNeVNEV3FNUWhLY0pwaS8zR1hsYnhRPQMAjAQASHVybjpzdG9yYWdlb3M6VmlydHVhbERhdGFDZW50ZXJEYXRhOjQwN2I2YjZjLWJkYTQtNGJhNC04OWY3LTIyMGFjM2Q5YzA0NAIADTE0OTU3NjkxMjY0OTgDAC51cm46VG9rZW46NzNjMWE5YjktMTQyZC00OGRjLTg2NDEtYjVjNWVmMzM4YzE1AgAC0A8="