



Access Keystone from Digital Advisor REST API

Keystone

NetApp
January 20, 2026

This PDF was generated from <https://docs.netapp.com/us-en/keystone-staas/rest-api/retrieve-keystone-data-with-digital-advisor-rest-api.html> on January 20, 2026. Always check docs.netapp.com for the latest.

Table of Contents

- Access Keystone from Digital Advisor REST API 1
 - Get started using the Digital Advisor REST API to retrieve Keystone data 1
 - Generate refresh and access tokens for Keystone 1
 - Generate access token using the Digital Advisor REST API 2
 - Execute the API call 3
 - Get a list of all Keystone customers using the Digital Advisor REST API 3
 - Get Keystone customer subscriptions using the Digital Advisor REST API 4
 - Get Keystone customer consumption details using the Digital Advisor REST API 5
 - Get the historical consumption details for a customer 7

Access Keystone from Digital Advisor REST API

Get started using the Digital Advisor REST API to retrieve Keystone data

Digital Advisor REST API provides a programmatic interface for retrieving Keystone subscription and consumption details.

At a high level, the workflow to interact with Digital Advisor REST API involves the following steps:

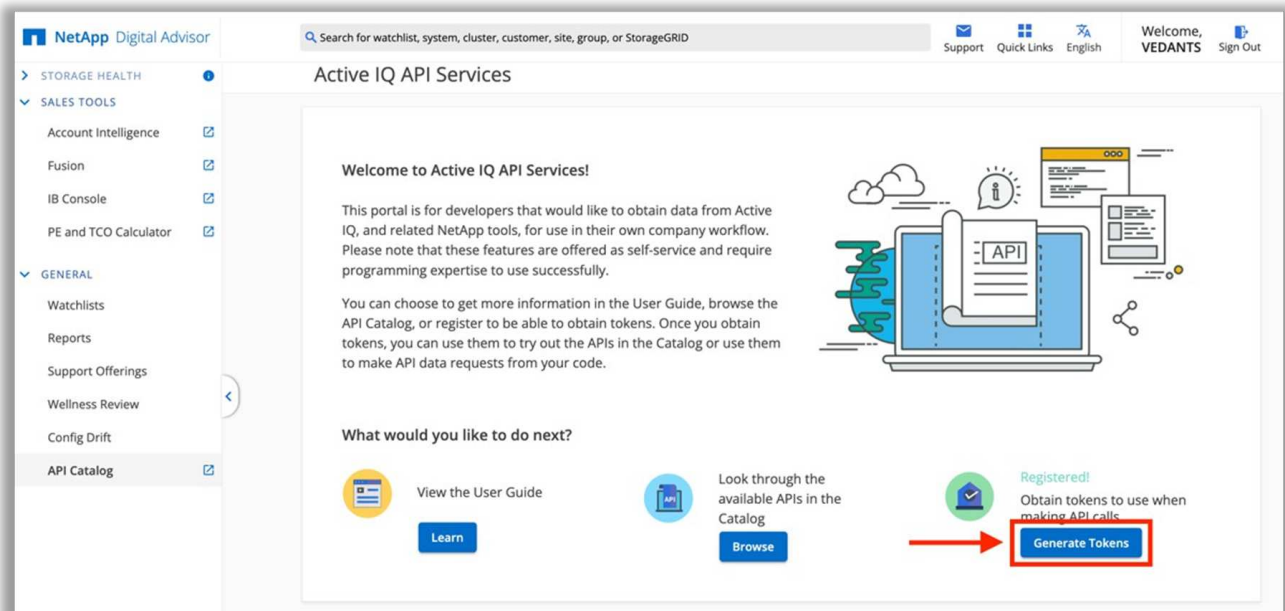
1. Set up your Digital Advisor account. You must have valid NetApp Support site credentials to log in to Digital Advisor. To learn more, refer to [Log in to Digital Advisor](#).
2. Understand the two-step authentication process.
 - a. **Generate a refresh token:** A refresh token is obtained through the Digital Advisor console using NetApp credentials. This token is used to ensure continuous access without the need for repeated logins.
 - b. **Generate an access token:** The refresh token is used to generate access tokens. An access token is required to authorize API calls to the Keystone service and is valid for one hour.
3. Execute an API call to retrieve the desired data. You can programmatically retrieve lists of customers, customer subscription data, and customer consumption details.

Generate refresh and access tokens for Keystone

A refresh token is used to programmatically obtain a new set of access tokens and is good for one week or until it has been used to obtain a new set of tokens.

Steps to generate a refresh token using the Digital Advisor portal are as follows:

1. Log in to the [Digital Advisor portal](#) using NetApp credentials and select **Generate Tokens**.



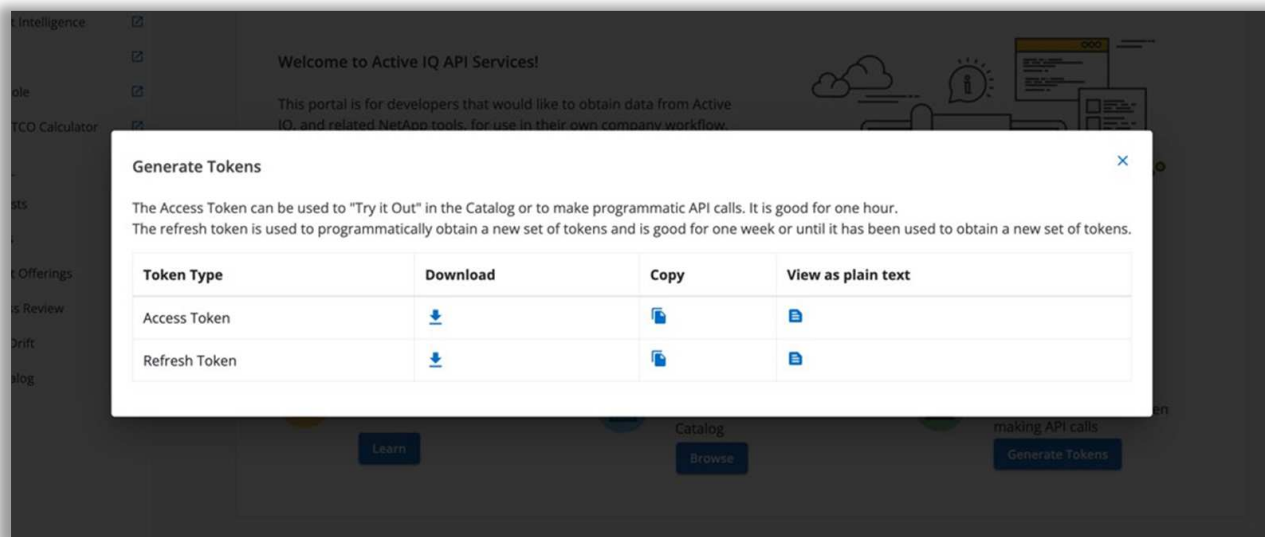


For first-time users, if **Generate Tokens** option is not available, select **Register** to submit an authorization request. Fill out the registration form to enable the functionality.

2. The system generates an access token and a refresh token. Save the refresh token on a trusted platform.



The portal gives you multiple ways to save one or both tokens in the set. You can copy them to clipboard, download them as a text file, or view them as plain text.



Generate access token using the Digital Advisor REST API

The access token is used to authenticate Digital Advisor API requests. It can be generated directly through the console along with the refresh token or using the following API call:

Request:

Method	POST
Endpoint	https://api.activeiq.netapp.com/v1/tokens/accessToken
Headers	<ul style="list-style-type: none">• accept: application/json• Content-Type: application/json
Request Body	<pre>{ "refresh_token": "<refresh-token>" }</pre>



You should have administrative privileges for Digital Advisor to access this endpoint.

Response:

API returns an access token and a refresh token in a JSON format as response.

```
{
  "refresh_token": "string",
  "access_token": "string"
}
```

Status code: 200 – Successful request

Curl example:

```
curl -X 'POST' \ 'https://api.activeiq.netapp.com/v1/tokens/accessToken' \
-H 'accept: application/json' \ -H 'Content-Type: application/json' \ -d '
{ "refresh_token": "<refresh-token>" }'
```

Execute the API call

Upon successful generation of an access token, authorized Digital Advisor API calls can be executed for the required information.

Get a list of all Keystone customers using the Digital Advisor REST API

This API retrieves a list of all the customerIDs associated with the user.

Request:

Method	GET
Endpoint	https://api.activeiq.netapp.com/v1/keystone/customers
Headers	<ul style="list-style-type: none">• accept: application/json• authorizationToken: <access_key>

Response:

The API will respond with a JSON object containing a list of customer names and respective IDs. Here's an example response:

```
{
  "results": {
    "returned_records": 0,
    "records": [
      {
        "Customers": [
          {
            "customer_id": "string",
            "customer_name": "string"
          }
        ]
      }
    ],
    "request_id": "string",
    "response_time": "string"
  }
}
```

Status code: 200 – Successful request

Curl example:

```
curl -X 'GET' \ 'https://api.activeiq.netapp.com/v1/keystone/customers' \
-H 'accept: application/json' -H 'authorizationToken: <access-key>'
```

Get Keystone customer subscriptions using the Digital Advisor REST API

This API retrieves a list of all the subscriptions and performance service levels associated with the given customerID.

Request:

Method	GET
Endpoint	https://api.activeiq.netapp.com/v1/keystone/customer/subscriptions-info
Parameters	<ul style="list-style-type: none"> • type: "customer" • id: <customer-id>
Headers	<ul style="list-style-type: none"> • accept: application/json • authorizationToken: <access_key>

Response:

The API will respond with a JSON object containing a list of all the subscriptions and associated performance service level details for the given customer. Here's an example response:

```
[
{
  "results": {
    "returned_records": 0,
    "records": [
      {
        "subscription": {
          "account_name": "string",
          "number": "string",
          "start_date": "2024-05-28T15:47:49.254Z",
          "end_date": "2024-05-28T15:47:49.255Z"
        },
        "service_levels": [
          {
            "name": "string",
            "committed_tib": 0
          }
        ]
      },
      {
        "request_id": "string",
        "response_time": "string"
      }
    ]
  }
}
```

Status code: 200 – Successful request

Curl example:

```
curl -X 'GET' \
'https://api.activeiq.netapp.com/v1/keystone/customer/subscriptions-
info?type=customer&id=<customerID>' \ -H 'accept: application/json' \ -H
'authorizationToken: <access-key>'
```

Get Keystone customer consumption details using the Digital Advisor REST API

This API retrieves the current consumption details for all the subscriptions associated with the given customerID.

Request:

Method	GET
EndPoint	https://api.activeiq.netapp.com/v1/keystone/customer/consumption-details
Parameters	<ul style="list-style-type: none">• type: "customer"• id: <customer-id>
Headers	<ul style="list-style-type: none">• accept: application/json• authorizationToken: <access_key>

Response:

The API will respond with a JSON object containing a list of all the subscriptions with the current service usage metrics for the given customer. Here's an example response:

```
{
  "result": {
    "returned_records": "string",
    "records": [
      {
        "subscription": {
          "account_name": "string",
          "number": "string",
          "start_date": "string",
          "end_date": "string"
        },
        "service_levels": [
          {
            "name": "string",
            "committed_tib": "string",
            "consumed_tib": "string",
            "consumed_timestamp_utc": "string",
            "burst_tib": "string",
            "accrued_burst_tib": "string"
          }
        ]
      }
    ],
    "request_id": "string",
    "response_time": "string"
  }
}
```

Status code: 200 – Successful request

Curl example:

```
curl -X 'GET' \
'https://api.activeiq.netapp.com/v1/keystone/customer/consumption-
details?type=customer&id=<customerID>' \ -H 'accept: application/json' \
-H 'authorizationToken: <access-key>'
```

Get the historical consumption details for a customer

This API retrieves the historical consumption details for all the subscriptions associated with the given customerID as per the time range specified.

Request:

Method	GET
EndPoint	https://api.activeiq.netapp.com/v1/keystone/customer/historical-consumption-details
Parameters	<ul style="list-style-type: none">• type: "customer"• id: <customer-id>• from_date_utc: <start date(in RFC3339 format)>• to_date_utc: <end date(in RFC3339 format)>
Headers	<ul style="list-style-type: none">• accept: application/json• authorizationToken: <access_key>

Response:

The API will respond with a JSON object containing a list of all the subscriptions with the historical service usage metrics for the given customer in the selected time range. Here's an example response:

```

{
  "results": {
    "returned_records": 0,
    "records": [
      {
        "subscription": {
          "account_name": "string",
          "number": "string",
          "start_date": "2023-08-24T14:15:22Z",
          "end_date": "2023-08-24T14:15:22Z"
        },
        "service_levels": [
          {
            "name": "string",
            "historical_consumption": [
              {
                "committed_tib": 0,
                "consumed_tib": 0,
                "timestamp_utc": "2023-08-24T14:15:22Z",
                "burst_tib": 0,
                "accrued_burst_tib": 0,
                "is_invoiced": true
              }
            ]
          }
        ]
      },
      {
        "request_parameters": {
          "from_date_utc": "2023-08-24",
          "to_date_utc": "2023-08-24",
          "customer_id": "string"
        },
        "request_id": "string",
        "response_time": "string",
        "customer": {
          "name": "string",
          "id": "string"
        }
      }
    ]
  }
}

```

Status code: 200 – Successful request

Curl example:

```
curl -X 'GET' \ 'https://api.activeiq-  
stg.netapp.com/v1/keystone/customer/historical-consumption-details?  
type=customer&id=<customerID>&from_date_utc=2023-08-24T14%3A15%3A22Z&t  
_date_utc=2023-08-24T14%3A15%3A22Z' \ -H 'accept: application/json' \ -H  
'authorizationToken: <access-key>'
```

Copyright information

Copyright © 2026 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.