

Autonomous Identity API

This chapter is targeted to developers who want to access Autonomous Identity using the REST Application Programming Interface (API).

ForgeRock® Autonomous Identity is an entitlements and roles analytics system that lets you fully manage your company's access to your data.

An entitlement refers to the rights or privileges assigned to a user or thing for access to specific resources. A company can have millions of entitlements without a clear picture of what they are, what they do, and who they are assigned to. Autonomous Identity solves this problem by using advanced artificial intelligence (AI) and automation technology to determine the full entitlements landscape for your company. The system also detects potential risks arising from incorrect or over-provisioned entitlements that lead to policy violations. Autonomous Identity eliminates the manual re-certification of entitlements and provides a centralized, transparent, and contextual view of all access points within your company.



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About the Autonomous Identity API

Autonomous Identity provides a RESTful application programming interface (API) that lets you use HTTP request methods (GET, PUT, and POST) to interact with the system and its

components. The API lets a developer make requests to send or receive data to an Autonomous Identity endpoint, a point where the API communicates with the system. The data that is sent or returned is in JavaScript Object Notation (JSON) format.

Autonomous Identity provides a Swagger client that you can access on the console.

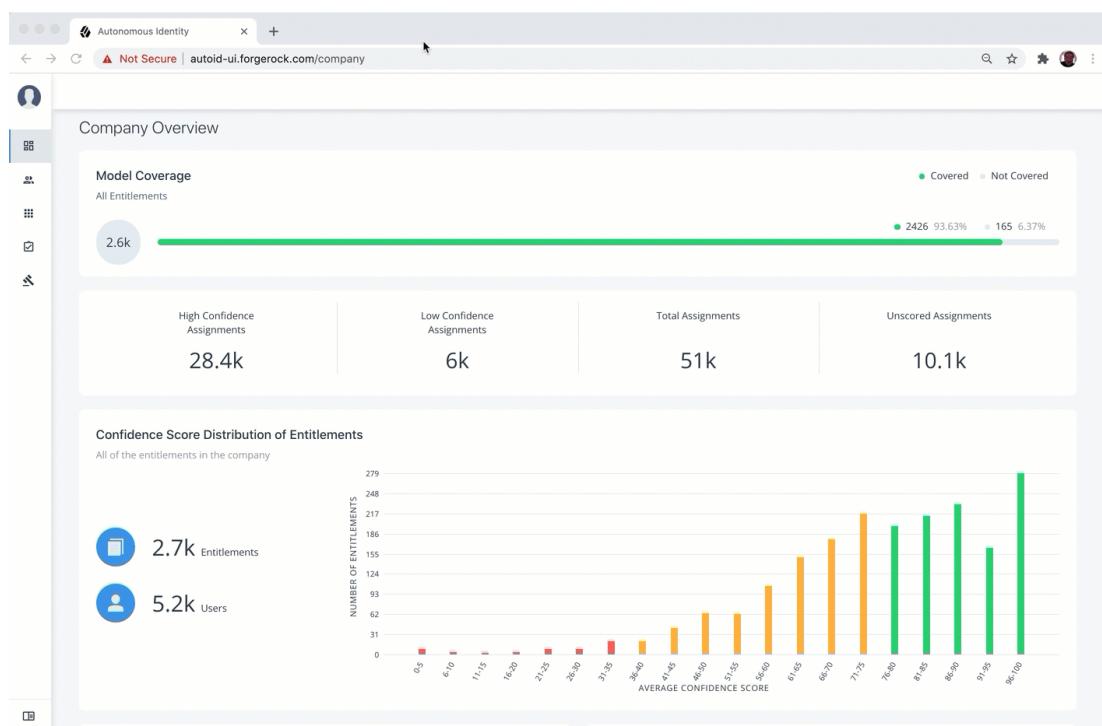
Using Swagger

The Autonomous Identity installs with a Swagger client that lets you interact with the Autonomous Identity API and the configuration service API. Swagger is a popular software that provides design, build, test, and documentation tools for RESTful APIs.

Access the Autonomous Identity API on Swagger

1. Open a browser, and point it to `https://autoid-ui.forgerock.com/`. Log in to the Autonomous Identity console.
2. Open another browser tab, and point to `https://autoid-ui.forgerock.com/swagger/`. You should see a default Swagger API page.
3. Open another browser tab, and point to `https://autoid-ui.forgerock.com/api/swagger`. You should see a raw text version of the API.
4. Go back to the Swagger page in step 2, and enter `https://autoid-ui.forgerock.com/api/swagger` in the field, and click **Explore**. You will see the Autonomous Identity API service.

▼ [See it in action](#)

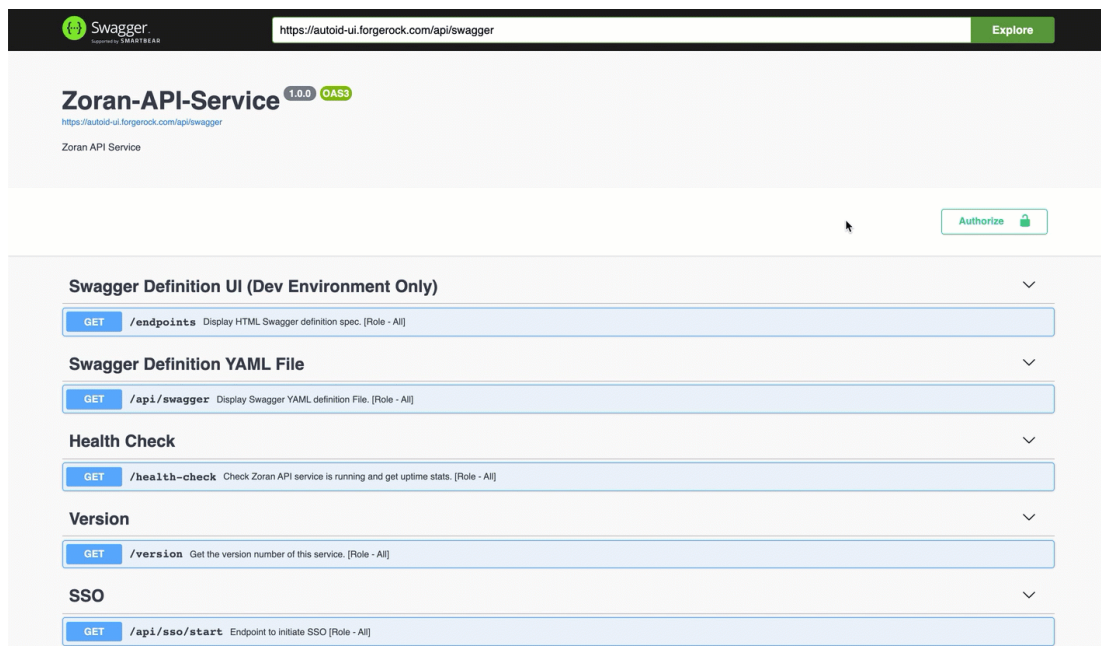


Authorize on Swagger

1. On the Swagger page, scroll down to the Login API.
2. In the Login API section, click POST, and then click **Try it out**.
3. In the request body, enter the username and password of a user. Click **Execute**.
4. Scroll down to Response Body, and highlight the returned bearer token value.
5. Scroll back to the top of the page, and click **Authorize**. Enter the value of the bearer token, and then click **Authorize**. Close the dialog panel when finished.

You can now access the Autonomous Identity API endpoints in Swagger.

▼ [See it in action](#)

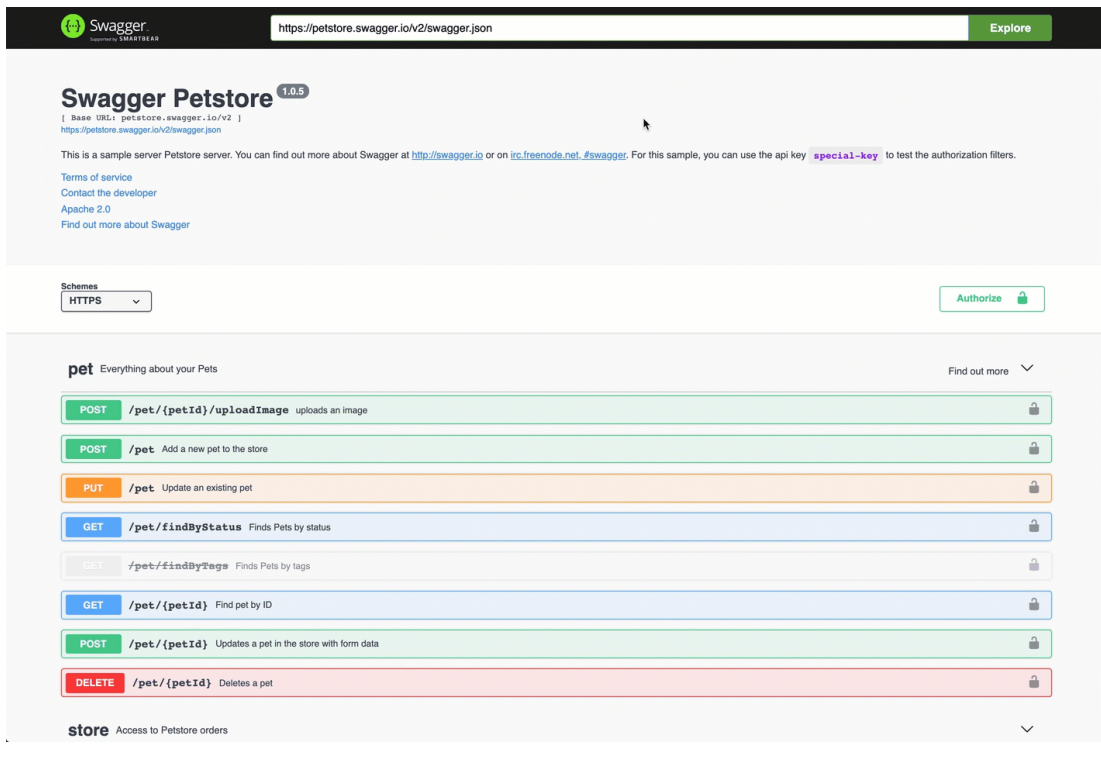


Access the Autonomous Identity Configuration Service API on Swagger

1. Access the Swagger page as presented in [Access the Autonomous Identity API on Swagger](#).
2. Open another browser tab, and point to `https://autoid-ui.forgerock.com/conf/swagger`. You should see a raw test version of the API.
3. Go back to the Swagger page in step 1, and enter `https://autoid-ui.forgerock.com/conf/swagger` in the field, and click **Explore**. You will see the Configuration Service API.
4. At the top of the page, click **Authorize**. Enter `configadmin` and password. The password was set in the `~/autoid-config/vault.yml` during install, and then click **Authorize**. Close the dialog box when finished.

You can now access the Configuration Service API endpoints in Swagger.

▼ [See it in action](#)



Generate an API Key

Autonomous Identity gives an administrator the ability to generate API keys for those who want to access certain endpoints using REST. Administrators can create an API from the Self-Service page of the Autonomous Identity UI.

NOTE

As of this release, only the Ingest endpoints use the API key.

IMPORTANT

To use an API token, you need both the tenant ID that the API key belongs to, and the API token itself.

Obtain the Tenant ID

In Autonomous Identity 2021.8.0 and later, the tenant ID is set as an environment variable that you can easily access.

- On the target node, get the tenant ID.

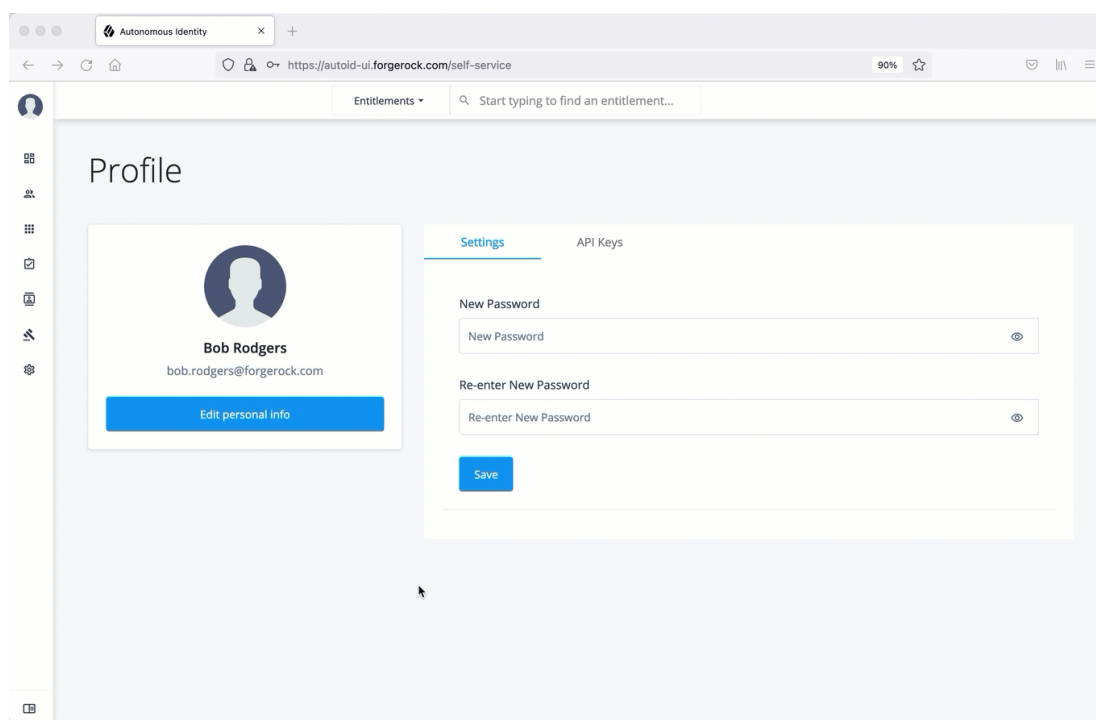
```
$ env | grep TENANT_ID
TENANT_ID=8700f5cb-eaca-461e-8c2e-245a25f2399d
```

Create an API Key using the UI

Administrators can create API keys on the Self-Service page of the Autonomous Identity UI.

1. On the Autonomous Identity UI, click the admin drop-down on the top-left of the page.
2. Click **Self Service**.
3. Click the **API Keys** tab.
4. Click **Generate API Key**.
5. Set the name, description, and expiration date for API key, and then click **Create**.
6. Make sure to make a copy of the key in the box as it cannot be retrieved once the dialog box is closed. The new API key appears in the list of keys on the API Keys page.

▼ [See it in action](#)

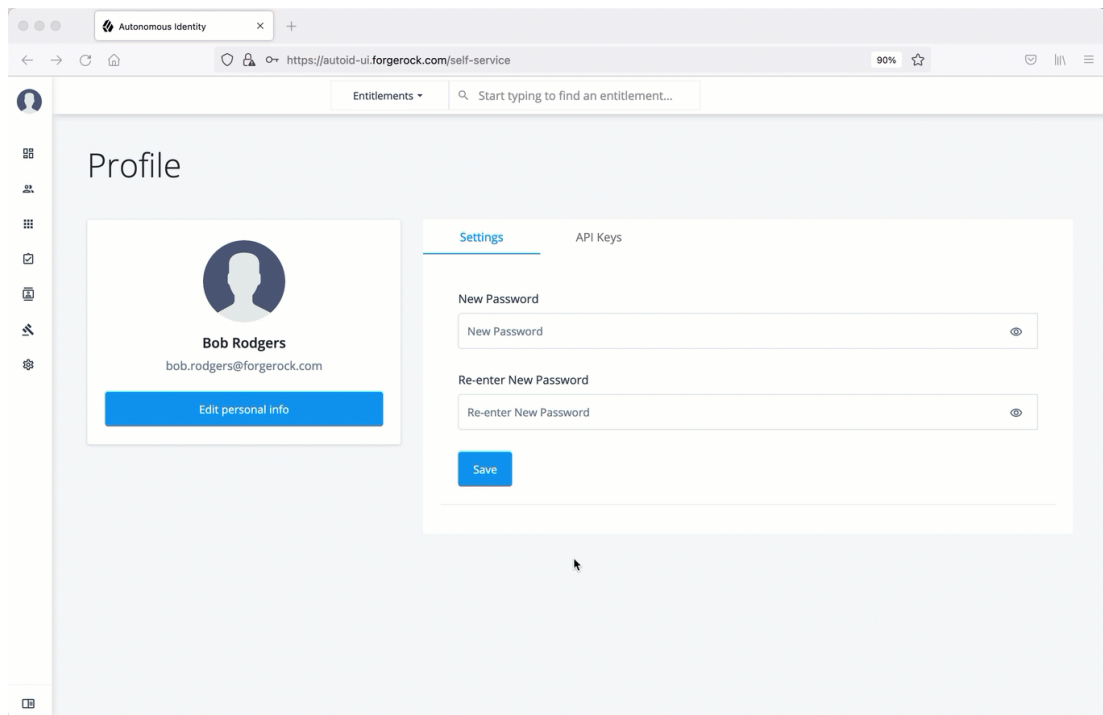


Deactivate API Keys using the UI

Administrators can revoke or delete API keys. Use the following procedure to revoke an API key.

1. On the Autonomous Identity UI, click the admin drop-down on the top-left of the page.
2. Click **Self Service**.
3. Click the **API Keys** tab.
4. In the Search field, enter the API key.
5. In the list of API keys, click the three dots, and select **Revoke**. This action deletes the API key for use.

▼ [See it in action](#)



Create an API Key using Curl

Administrators can create API keys on the command line using curl commands.

1. Open a terminal, and create an authentication bearer token for an admin user:

```
curl -k -X POST \  
https://autoid-ui.forgerock.com/api/authentication/login \  
-H 'Content-Type: application/json' \  
-d '{  
  "username": "bob.rodgers@forgerock.com",  
  "password": "Welcome123"  
}'
```

The response is:

```
{
  "user": {
    "dn":
    "cn=bob.rodgers@forgerock.com,ou=People,dc=zoran,dc=com",
    "controls": [],
    "displayName": "Bob Rodgers",
    "gidNumber": "999",
    "uid": "bob.rodgers",
    "_groups": [
      "Zoran User",
      "Zoran Admin"
    ]
  },
  "token": "token_value"
}
```

2. Set the TOKEN environment variable:

```
export TOKEN=token_value
```

3. Generate a new API key:

```
curl -k -X POST \
https://autoid-ui.forgerock.com/api/admin/createApiToken \
-H "Authorization: Bearer $TOKEN" \
-H 'Content-Type: application/json' \
-d '{
  "name": "Ingest Key",
  "description": "API key for ingestion endpoints",
  "expiration": "2022-01-02"
}'
```

The response is:

```
{
  "token": "19412ace-1d99-44b2-88e0-16136fc5c77a"
}
```

API Key Examples

The following curl example illustrates how to use the API key to get a datasource ID for an ingestion job:

1. Obtain an API key from an administrator. See [Create API Keys](#).
2. Obtain the tenant ID using the environment variable.

```
$ env | grep TENANT_ID
TENANT_ID=8700f5cb-eaca-461e-8c2e-245a25f2399d
```

3. Query Autonomous Identity's Java API Service (JAS) to obtain a data source ID using the API Key (for example, '1b7789f0-6c2f-4afa-a84b-a65a28f5c1a1'):

```
curl 'https://autoid-
ui.forgerock.com/jas/datasource/search' \
  -H 'authority: autoid-ui.forgerock.com' \
  -H 'sec-ch-ua: "Chromium";v="92", " Not A;Brand";v="99",
"Google Chrome";v="92"' \
  -H 'accept: application/json, text/plain, /' \
  -H 'x-tenant-id: 8700f5cb-eaca-461e-8c2e-245a25f2399d' \
  -H 'authorization: 1b7789f0-6c2f-4afa-a84b-a65a28f5c1a1'
\
  -H 'sec-ch-ua-mobile: ?0' \
  -H 'user-agent: Mozilla/5.0 (Macintosh; Intel Mac OS X
10_15_7) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/92.0.4515.159 Safari/537.36' \
  -H 'content-type: application/json' \
  -H 'origin: https://autoid-ui.forgerock.com' \
  -H 'sec-fetch-site: same-origin' \
  -H 'sec-fetch-mode: cors' \
  -H 'sec-fetch-dest: empty' \
  -H 'referrer: https://autoid-ui.forgerock.com/data-
sources' \
  -H 'accept-language: en-US,en;q=0.9' \
  --data-raw '{
    "query": {
      "sort": [
        {
          "datasource_id.keyword": {
            "order": "desc"
          }
        }
      ],
      "size": 10,
      "track_total_hits": true,
      "query": {
        "match_all": {}
      }
    }
  }
```



```
        }
      }
    }' \
--compressed \
--insecure
```

The response includes the datasource ID:

```
{
  "took": 8,
  "timed_out": false,
  "_shards": {
    "total": 3,
    "successful": 3,
    "skipped": 0,
    "failed": 0
  },
  "hits": {
    "total": {
      "value": 1,
      "relation": "eq"
    },
    "max_score": null,
    "hits": [
      {
        "_index": "autonomous-
iam_common_datasources_latest",
        "_type": "_doc",
        "_id":
"259b80c7693e92c4c29bd64deac4cd99826d427027645c9413afdb3f0
83b891d8d34cefaebd5fcf098c066dc1a4da2879d8732d59bfd2e239a2
85184f8e7a35b",
        "_score": null,
        "_source": {
          "datasource_id": "2d7a6a76-469c-4035-b312-
fb1daf104e98",
          "name": "Showcase-CSV-DS",
          "sync_type": "full",
          "icon": "apps",
          "isActive": true,
          "entityTypes": {
            "/autoid/system/datasources/2d7a6a76-469c-
4035-b312-fb1daf104e98/applications": {
              "uri": {
                "file":
```

```

"file:/data/input/applications.csv"
    }
  },
  "/autoid/system/datasources/2d7a6a76-469c-4035-b312-fb1daf104e98/assignments": {
    "uri": {
      "file": "file:/data/input/assignments.csv"
    }
  },
  "/autoid/system/datasources/2d7a6a76-469c-4035-b312-fb1daf104e98/entitlements": {
    "uri": {
      "file":
"file:/data/input/entitlements.csv"
    }
  },
  "/autoid/system/datasources/2d7a6a76-469c-4035-b312-fb1daf104e98/identities": {
    "uri": {
      "file": "file:/data/input/identities.csv"
    }
  }
},
"connectionSettings": {
  "csv": {}
},
"metadata": {
  "contextId": "scripts",
  "entityType": "/common/datasources",
  "primaryKey": "2d7a6a76-469c-4035-b312-fb1daf104e98",
  "entityPath": "/common/datasources/2d7a6a76-469c-4035-b312-fb1daf104e98",
  "entityDefinition": "datasources",
  "namespace": "/common",
  "branch": "actual",
  "created": "2021-08-25T03:53:33.634Z",
  "tenantId": "autonomous-iam"
}
},
"sort": [
  "2d7a6a76-469c-4035-b312-fb1daf104e98"
]
}
]

```



```
}  
}
```

4. Make sure your client that accesses the JAS configuration has something similar to the following:

```
public static final String CONFIG_JAS_API_TOKEN =  
    "JAS_API_KEY";  
public static final String CONFIG_JAS_TENANT_ID =  
    "TENANT_ID";
```

API Service

The following are Autonomous Identity API Service endpoints:

GET /health-check

GET /health-check

Check that the Autonomous Identity API service is running. Get uptime statistics. [All]

Endpoint

```
/health-check
```

Headers

```
Content-Type    application/json
```

Body

Example Request

```
curl --request GET "https://autoid-  
api.forgerock.com/health-check" \  
--header "Content-Type: application/json"
```

Example Response

```
{
  "status": "zoran-api: OK",
  "uptime": 5412.465875997,
  "uptimeFormatted": "1:30:12"
}
```

GET /version

GET /version

Get the version number of this service. [All]

Endpoint

```
/version
```

Headers

```
Content-Type    application/json
```

Body

Example Request

```
curl --request GET "https://autoid-
api.forgerock.com/version" \
--header "Content-Type: application/json"
```

Example Response

```
{
  "version": "1.0",
}
```

Authentication

The following are Autonomous Identity authentication endpoints:

POST /api/authentication/login

POST /api/authentication/login

Log in to the system. The endpoint accepts the username and password in the body of the request. The token provided has an expiry date that can be obtained by decoding the returned JWT and using the `exp` data inside the token. [All]

Endpoint

```
/api/authentication/login
```

Headers

```
Content-Type      application/json
```

Body

```
{  
    "username": "admin@test.com",  
    "password": "test"  
}
```

Example Request

```
curl --location --request POST 'https://autoid-api.forgerock.com/api/authentication/login' \  
--header 'Content-Type: application/json' \  
--data-raw '{  
    "username": "admin@test.com",  
    "password": "test"  
}'
```

Example Response

```
{
  "user": {
    "dn": "cn=test.user@test.com,dc=example,dc=org",
    "controls": [],
    "gidNumber": "7777",
    "uid": "test.user",
    "displayName": "Test User",
    "_groups": [
      "Admin"
    ]
  },
  "token": "123456"
}
```

GET /api/authentication/verify

GET /api/authentication/verify

Verify the authenticity of a bearer token.

Endpoint

```
/api/authentication/verify
```

Authorization

Token	<token>
--------------	----------------------

Headers

Content-Type	application/json
---------------------	-------------------------

Body

```
..
```

Example Request

```
curl --location --request GET 'https://autoid-  
api.forgerock.com/api/authentication/verify' \  
--header 'Content-Type: application/json'
```

Example Response

```
{  
  "user": {  
    "controls": [],  
    "displayName": "Bob Rodgers",  
    "email": "bob.rodgers@forgerock.com",  
    "dn":  
    "cn=bob.rodgers@forgerock.com,ou=People,dc=zoran,dc=com",  
    "gidNumber": "999",  
    "uid": "bob.rodgers",  
    "_groups": [  
      "Zoran Admin"  
    ],  
    "iat": 1628893019,  
    "exp": 1628936219,  
    "aud": "http://my.service",  
    "sub": "6711197"  
  }  
}
```

POST /api/authentication/renewToken

POST /api/authentication/renewToken

Renew a token for the system. The endpoint accepts the JWT in the header

Authorization: Bearer JWT. The expiry time of the token is reset and return in the new token. [All]

Endpoint

```
/api/authentication/renewToken
```

Authorization

Token <token>

Headers

Content-Type application/json

Body

''

Example Request

```
curl --location --request POST 'https://autoid-  
api.forgerock.com/api/authentication/renewToken' \  
--header 'Content-Type: application/json' \  
--data-raw ''
```

Example Response

```
{  
  "user": {  
    "dn": "cn=test.user@test.com,dc=example,dc=org",  
    "controls": [],  
    "gidNumber": "7777",  
    "uid": "test.user",  
    "displayName": "Test User",  
    "_groups": [  
      "Admin"  
    ]  
  },  
  "token": "123456"  
}
```

GET /api/authentication/actions

GET /api/authentication/actions

Retrieve the permitted actions of the currently authenticated user. [All]

Endpoint

```
/api/authentication/action
```

Headers

```
Content-Type      application/json
```

Example Request

```
curl --location --request GET 'https://autoid-  
api.forgerock.com/api/authentication/actions' \  
--header 'Content-Type: application/json'
```

Example Response

```
{  
  "userActions": [  
    "*" ] ,  
  "roleTitle": "Unknown",  
  "homepage": "company"  
}
```

SSO

The following are Autonomous Identity SSO endpoints:

GET /api/sso/start

GET /api/sso/start

Endpoint to initiate SSO. [All]

Endpoint

```
/api/sso/start
```

Authorization

```
Token            <token>
```

Headers

```
Content-Type     /
```

Example Request

```
curl --request GET "https://autoid-  
api.forgerock.com/api/sso/start" \  
--header "Content-Type: /"
```

GET /api/sso/finish

GET /api/sso/finish

Endpoint to finish SSO. [All]

Endpoint

```
/api/sso/finish
```

Authorization

```
Token            <token>
```


Headers

Content-Type /

Example Request

```
curl --request GET "https://autoid-  
api.forgerock.com/api/sso/finish" \  
--header "Content-Type: /"
```

GET /api/slo/logout

GET /api/slo/logout

Endpoint to log out of SSO.

Endpoint

/api/slo/logout

Authorization

Token <token>

Headers

Content-Type **application/json**

Example Request

```
curl --request GET "https://autoid-  
api.forgerock.com/api/slo/logout" \  
--header "Content-Type: application/json"
```

Config

The following are Autonomous Identity config endpoint:

GET /api/config

GET /api/config

Get the configuration. This endpoint is mainly used by the Autonomous Identity UI microservice to get values stored in Consul. [All]

Endpoint

```
/api/config
```

Headers

```
Content-Type      application/json
```

Example Request

```
curl --request GET "https://autoid-  
api.forgerock.com/api/config" \  
--header "Content-Type: application/json"
```

Example Response

```
{  
  "thresholds": {  
    "top": 1.01,  
    "high": 0.75,  
    "medium": 0.35,  
    "low": 0,  
    "autoAccess": 0.5  
  },  
  "volumeThresholds": {  
    "high": 90,  
    "low": 20  
  }  
}
```

```
},
"mostAssignedStats": {
  "count": 100
},
"highVolumeStats": {
  "high": {
    "minScore": 0.9,
    "minUsersCount": 100
  },
  "low": {
    "maxScore": 0.2,
    "minUsersCount": 100
  }
},
"authorizers": {
  "ldap": true,
  "oidc": false
}
}
```

GET /api/admin/reloadUIConfig

GET /api/admin/reloadUIConfig

Reload justification and filterable attributes configuration from JAS. [User, Supervisor, Ent Owner, App Owner, Admin]

Endpoint

```
/api/admin/reloadUIConfig
```

Headers

```
Content-Type /
```

Example Request

```
curl --request GET "https://autoid-  
api.forgerock.com/api/admin/reloadUIConfig" \  
-H "accept: /"
```

POST /api/admin/updateUser

GET /api/admin/updateUser

Update credentials for a user.

Endpoint

```
/api/admin/updateUser
```

Authorization

```
<Bearer Token JWT-value>
```

Body

```
{
  email: "john.doe@forgerock.com",
  password: "password",
  groups: ["Zoran Supervisor", "Zoran Role Engineer"]
}
```

Example Request

```
curl --location --request POST 'https://autoid-
api.forgerock.com/api/admin/updateUser' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw '{
  "email": "john.doe@forgerock.com",
  "password": "password",
  "groups": ["Zoran Supervisor", "Zoran Role
Engineer"]
}'
```

Example Response

```
{ message: 'success' }
```

POST /api/admin/updateSelf

POST /api/admin/updateSelf

Update credentials for a user.

Endpoint

```
/api/admin/updateSelf
```

Authorization

```
<Bearer Token JWT-value>
```

Body

```
{  
    email: "john.doe@forgerock.com",  
    password: "password",  
    groups: ["Zoran Supervisor", "Zoran Role Engineer"]  
}
```

Example Request

```
curl --location --request POST 'https://autoid-  
api.forgerock.com/api/admin/updateSelf' \  
--header 'Content-Type: application/json' \  
--header 'Authorization: Bearer <token>' \  
--data-raw '{  
    "email": "john.doe@forgerock.com",  
    "password": "password",  
    "groups": ["Zoran Supervisor", "Zoran Role  
Engineer"]  
'
```

Example Response

```
{ message: 'success' }
```

POST /api/admin/disableUser

POST /api/admin/disableUser

Disable user account.

Endpoint

```
/api/admin/disableuser
```

Authorization

```
<Bearer Token JWT-value>
```

Body

```
{  
    email: "john.doe@forgerock.com"  
}
```

Example Request

```
curl --location --request POST 'https://autoid-  
api.forgerock.com/api/admin/disableUser' \  
--header 'Content-type: application/json' \  
--header 'Authorization: Bearer <token>' \  
--data-raw '{  
    "email": "john.doe@forgerock.com"  
}'
```

Example Response

```
{ message: 'success' }
```

POST /api/admin/enableUser

POST /api/admin/enableUser

Enable a user account.

Endpoint

```
/api/admin/enableUser
```

Authorization

```
<Bearer Token JWT-value>
```

Body

```
{  
    email: "john.doe@forgerock.com"  
}
```

Example Request

```
curl --location --request POST "https://autoid-  
api.forgerock.com/api/admin/enableUser" \  
--header "Content-Type: application/json" \  
--header "Authorization: Bearer <token>" \  
--data-raw '{  
    "email": "john.doe@forgerock.com"  
}'
```

Example Response

```
{ message: 'success' }
```

POST /api/admin/createUser

POST /api/admin/createUser

Create credentials for a user

Endpoint

```
/api/admin/createUser
```

Authorization

```
<Bearer Token JWT-value>
```

Body

```
{
  dn:
  "cn=john.doe@forgerock.com,ou=People,dc=zoran,dc=com",gidNu
  mber: "321",
  email: "john.doe@forgerock.com",
  password: "password",
  controls: [],
  displayName: "John Doe",
  uid: "john.doe",
  groups: ["Zoran Admin"]
}
```

Example Request

```
curl --request POST "https://autoid-
api.forgerock.com/api/admin/createUser" \
--header "Content-Type: application/json" \
--header "Authorization: Bearer <token>" \
--data-raw '{
  dn:
  "cn=john.doe@forgerock.com,ou=People,dc=zoran,dc=com",gidNu
  mber: "321",
  email: "john.doe@forgerock.com",
```



```
password: "password",
controls: [],
displayName: "John Doe",
uid: "john.doe",
groups: ["Zoran Admin"]
}'
```

Example Response

```
{ message: 'success' }
```

POST /api/admin/createApiToken

POST /api/admin/createApiToken

Create API credentials (token) for a user.

Endpoint

```
/api/admin/createApiToken
```

Authorization

```
<Bearer Token JWT-value>
```

Body

```
{
  name: "John Doe",
  description: "description",
  expiration: "2021-08-12T12:00:00.000Z"
}
```

Example Request

```
curl --request POST "https://autoid-
api.forgerock.com/api/admin/createApiToken" \
--header "Content-Type: application/json" \
--header "Authorization: Bearer <token>" \
--data-raw '{
    name: "John Doe",
    description: "description",
    expiration: "2021-08-12T12:00:00.000Z"
}'
```

Example Response

```
{ token: uuid }
```

POST /api/admin/revokeApiToken

POST /api/admin/revokeApiToken

Revoke API credentials for a user.

Endpoint

```
/api/admin/revokeApiToken
```

Authorization

```
<Bearer Token JWT-value>
```

Body

```
{
    token: "11b57769-d436-4357-bc1c-0e0b9c6a49b6"
}
```

Example Request

```
curl --location --request POST "https://autoid-  
api.forgerock.com/api/admin/revokeApiToken" \  
--header "Content-Type: application/json" \  
--header "Authorization: Bearer <token>" \  
--data-raw '{  
    token: "11b57769-d436-4357-bc1c-0e0b9c6a49b6"  
'
```

Example Response

```
{ message: 'User token disabled' }
```

GET /api/admin/verifyApiToken/{token}

GET /api/admin/verifyApiToken/{token}

Verify that an API token is valid

Endpoint

```
/api/admin/verifyApiToke
```

Authorization

```
<Bearer Token JWT-value>
```

Example Request

```
curl --request GET "https://autoid-  
api.forgerock.com/api/admin/verifyApiToken/da0b5228-1e11-  
4278-ad1c-f0938fccdf82" \  
--header "Content-Type: application/json" \  
--header "Authorization: Bearer <token>"
```

Example Response

```
{
  "name": "John Doe",
  "description": "description",
  "expiration": "2021-08-17T12:00:00.000Z",
  "is_valid": true,
  "creator": "bob.rodgers@forgerock.com",
  "modifier": "bob.rodgers@forgerock.com"
}
```

GET /api/admin/getTokens

GET /api/admin/getTokens

Get a list of tokens.

Endpoint

```
/api/admin/getTokens
```

Authorization

```
<Bearer Token JWT-value>
```

Body

```
{
  "maxResults": 6,
  "offset": 5
}
```

Example Request

```
curl --request GET "https://autoid-
api.forgerock.com/api/admin/getTokens" \
--header "Content-Type: application/json" \
--header "Authorization: Bearer <token>" \
--data-raw '{
  "maxResults": 6,
```

```
        offset: 5
    }'
```

Example Response

```
[{
  "token": "da0b5228-1e11-4278-ad1c-f0938fccdf82",
  "name": "John Doe",
  "description": "description",
  "expiration": "2021-08-17T12:00:00.000Z",
  "is_valid": true,
  "creator": "bob.rodgers@forgerock.com",
  "modifier": "bob.rodgers@forgerock.com"
}]
```

GET /api/admin/getUsers

GET /api/admin/getUsers

Get a list of users.

Endpoint

```
/api/admin/getUsers
```

Authorization

```
<Bearer Token JWT-value>
```

Body

```
{
  maxResults: 6,
  offset: 5,
  sortBy: uid | displayName | gidNumber
}
```

Example Request

```
curl --location --request GET "https://autoid-  
api.forgerock.com/api/admin/getUsers" \  
--header "Content-Type: application/json" \  
--header "Authorization: Bearer <token>" \  
--data-raw '{  
    maxResults: 6,  
    offset: 5,  
    sortBy: uid  
'
```

Example Response

```
[{  
  "controls": [],  
  "displayName": "David Elliott",  
  "email": "david.elliott@forgerock.com",  
  "dn":  
  "cn=david.elliott@forgerock.com,ou=People,dc=zoran,dc=com",  
  "gidNumber": "809",  
  "uid": "david.elliott",  
  "_groups": [  
    "Zoran Entitlement Owner"  
  ],  
  "enabled": true  
}]
```

Report

Autonomous Identity captures information in its log files that are useful when troubleshooting problems. You can access the reports using REST calls to the Report API endpoint.

POST /api/report

POST /api/report

Get reporting data. [All]

Endpoint

```
/api/report
```

Authorization

```
<Bearer Token JWT-value>
```

Headers

```
Content-Type      application/json
```

Params

```
fields
```

Body

```
{
  "fields": [
    "id",
    "type",
    "batch_id",
    "original",
    "update"
  ],
  "reportType": "EventBasedCertification"
}
```

Example Request

```
curl --request POST "https://autoid-
api.forgerock.com/api/report" \
--header "Content-Type: application/json" \
--header 'Authorization: Bearer <token>' \
```

```
--data-raw '{
    "fields": [
        "id",
        "type",
        "batch_id",
        "original",
        "update"
    ],
    "reportType": "EventBasedCertification"
}'
```

Company View

The following are Autonomous Identity company view endpoints:

GET /api/companyview

GET /api/companyview

Get the data for company overview dashboard data. [Executive, Admin]

Endpoint

```
/api/companyview
```

Authorization

```
<Bearer Token JWT-value>
```

Example Request

```
curl --request GET "https://autoid-
api.forgerock.com/api/companyview" \
--header "Content-Type: application/json"
```

Example Response


```

{
  "companyView": {
    "employeeTypes": [
      {
        "type": "Employee",
        "high": 723,
        "low": 27,
        "medium": 1796,
        "null_conf": 0,
        "total": 2546
      },
      {
        "type": "Non-Employee",
        "high": 867,
        "low": 14,
        "medium": 1768,
        "null_conf": 0,
        "total": 2649
      }
    ],
    "employees_wo_manager": 0,
    "employees_w_manager": 5200,
    "entitlements_without_roleowners": 0,
    "entitlements_with_roleowners": 2456,
    "total_employees": 5200,
    "coverage": {
      "total": 2456,
      "covered": 2456,
      "not_covered": 0
    },
    "entitlementsDistribution": {
      "no_users": 0,
      "one_user": 0,
      "zero_to_five_users": 1,
      "five_to_ten_users": 1064,
      "ten_to_hundred_users": 1549,
      "hundred_to_onek_user": 35,
      "onek_to_tenk_users": 0,
      "tenk_users": 0,
      "hundredk_users": 0
    }
  }
}

```

GET /api/companyview/allEntitlementsAvgGroups

GET /api/companyview/allEntitlementsAvgGroups

Get the average confidence score list for the company view chart. [Executive, Admin]

Endpoint

```
/api/companyview/allEntitlementAvgGroups
```

Authorization

```
<Bearer Token JWT-value>
```

Example Request

```
curl --request GET "https://autoid-  
api.forgerock.com/api/companyview/allEntitlementAvgGroups"  
\  
--header "Content-Type: application/json"
```

Example Response

```
{  
  "entitlementList": [  
    {  
      "start": 0,  
      "end": 0.05,  
      "entitlementCount": 2  
    },  
    {  
      "start": 0.06,  
      "end": 0.1,  
      "entitlementCount": 14  
    }  
  ]  
}
```

GET /api/companyview/mostCriticalEntitlements

GET /api/companyview/mostCriticalEntitlements

Get the most critical entitlements list. [Executive, Admin]

Endpoint

```
/api/companyview/mostCriticalEntitlements
```

Authorization

```
<Bearer Token JWT-value>
```

Example Request

```
curl --request GET "https://autoid-  
api.forgerock.com/api/companyview/mostCriticalEntitlements"  
\  
--header "Content-Type: application/json"
```

Example Response

```
[  
  {  
    "org": "organization",  
    "entt_id": "ent1",  
    "avg_conf_score": 0.04,  
    "entt_name": "Ent 1",  
    "high": 0,  
    "low": 1,  
    "medium": 0,  
    "seq": 0,  
    "total_employees": 6  
  },  
  {  
    "org": "organization",  
    "entt_id": "ent2",  
    "avg_conf_score": 0.04571,  
    "high": 0,  
    "low": 1,  
    "medium": 0,  
    "seq": 0,  
    "total_employees": 6  
  }  
]
```

```
    "entt_name": "Ent 2",
    "high": 0,
    "low": 1,
    "medium": 0,
    "seq": 1,
    "total_employees": 7
  }
]
```

GET /api/companyview/assignmentStats

GET /api/companyview/assignmentStats

Get the total assignments, low/high confidence, high volume and low/high confidence, most assigned [Executive, Admin]

Endpoint

```
/api/companyview/assignmentsStats
```

Authorization

```
<Bearer Token JWT-value>
```

Params

```
assignmentLimit 1
highVolumeHighMinScore 0.9
highVolumenHighMinUsersCount 100
highVolumenLowMaxScore 0.2
highVolumeLowMinUsersCount 100
```

Example Request

```
curl --request GET "https://autoid-
api.forgerock.com/api/companyview/assignmentsStats?
assignmentsLimit=5" \
--header "Content-Type: application/json"
```

Example Response

```
{
  "total": 47670,
  "high": 13145,
  "low": 4992,
  "unscored": 4986,
  "mostAssigned": [
    {
      "count": 344,
      "entitlement": "ent1"
    }
  ],
  "mostAssignedCount": 35,
  "highVolume": {
    "high": 23,
    "low": 17
  }
}
```

GET

`/api/companyview/assignmentHistConfSummary/{year}/{month}`

GET /api/companyview/assignmentHistConfSummary/{year}/{month}

Get the number of high, medium, and low confidence assignments for the past 12-month period ending in a given year and month. [Executive, admin]

Endpoint

```
/api/companyview/assignmentsHistConfSummary/2020/01
```

Authorization

```
<Bearer Token JWT-value>
```

Example Request

```
curl --request GET "https://autoid-  
api.forgerock.com/api/companyview/assignmentsHistConfSummar  
y/2020/1" \  
--header "Content-Type: application/json"
```

Example Response

```
[  
  {  
    "year": 0,  
    "month": 0,  
    "highConf": 0,  
    "medConf": 0,  
    "lowConf": 0,  
    "total": 0  
  }  
]
```

User Details

The following are Autonomous Identity user details endpoints:

POST /api/userDetails

POST /api/userDetails

Get employee details for Identities views. [User, Supervisor, Ent Owner, App Owner, Admin]

Endpoint

```
/api/userDetails
```

Authorization

```
<Bearer Token JWT-value>
```

Headers

Content-Type **application/json**

Body

```
{
  "employeeId": "john.doe",
  "sortDir": "asc, desc",
  "lastEntitlementId": "Web_NAS_Share_Case Management_7HQ",
  "lastRecommendedEnttId": "string"
}
```

Example Request

```
curl --request POST "https://autoid-
api.forgerock.com/api/userDetails" \
--header "Content-Type: application/json" \
--header "Authorization: Bearer <token>" \
--data-raw '{
  "employeeId": "john.doe",
  "sortDir": "asc, desc",
  "lastEntitlementId": "Web_NAS_Share_Case
Management_7HQ",
  "lastRecommendedEnttId": "string"
}'
```

Example Response

```
{
  "recommendedEntt": {
    "predictions": [
      {
        "usr_key": "john.doe",
        "ent": "ent1",
        "conf": "0.88",
        "freq": "10.0",
        "frequion": "9",
        "rule": [
```

```

    {
      "title": "Chief",
      "value": "Yes"
    },
    {
      "title": "Employee Type",
      "value": "Employee"
    }
  ],
  "entt": {
    "entitlement": "Ent 1",
    "app_id": "app1",
    "role": "role.owner",
    "app_name": "App 1",
    "entitlement_name": "Ent 1",
    "high_risk": "High",
    "roleOwnerDisplayName": "Role Owner",
    "requestorCanAccess": false
  }
},
{
  "usr_key": "john.doe",
  "ent": "ent2",
  "conf": "1.00",
  "freq": "4.0",
  "frequion": "4",
  "rule": [
    {
      "title": "Job Code Name",
      "value": "Business Representitive"
    },
    {
      "title": "Line of Business",
      "value": "Portfolio Management"
    },
    {
      "title": "Department",
      "value": " South"
    },
    {
      "title": "Employee Type",
      "value": "Employee"
    }
  ],
  "entt": {

```



```

        "entitlement": "ent2",
        "app_id": "app1",
        "role": "role.owner",
        "app_name": "App 1",
        "entitlement_name": "Ent 2",
        "high_risk": "High",
        "roleOwnerDisplayName": "Role Owner",
        "requestorCanAccess": true
    }
}
],
"entitlementsCount": 14,
"entitlementsRemainingCount": 9,
"lastEntitlementId": "ent2"
},
"userEntt": [
{
    "user": "john.doe",
    "entitlement": "ent3",
    "app_id": "app1",
    "app_name": "App 1",
    "entitlement_name": "Ent 3",
    "freq": "10.0",
    "frequnion": "9",
    "high_risk": "High",
    "justification": [
        {
            "title": "Chief",
            "value": "Yes"
        },
        {
            "title": "Employee Type",
            "value": "Employee"
        }
    ],
    "score": 0.88,
    "user_name": "John Doe",
    "lastAccessed": "2020-01-01 00:00:00",
    "requestorCanAccess": false,
    "rawJustification": [
        "CHIEF_YES_NO_Yes",
        "USR_EMP_TYPE_Employee"
    ]
}
],
{

```

```

"user": "john.doe",
"entitlement": "ent4",
"app_id": "app1",
"app_name": "App 1",
"entitlement_name": "Ent 4",
"freq": "4.0",
"frequion": "4",
"high_risk": "High",
"justification": [
  {
    "title": "Job Code Name",
    "value": "Business Representitive"
  },
  {
    "title": "Line of Business",
    "value": "Portfolio Management"
  },
  {
    "title": "Department",
    "value": " South"
  },
  {
    "title": "Employee Type",
    "value": "Employee"
  }
],
"score": 1,
"user_name": "John Doe",
"lastAccessed": "2020-01-01 00:00:00",
"requestorCanAccess": false,
"rawJustification": [
  "JOB_CODE_NAME_Business Representitive",
  "LINE_OF_BUSINESS_Portfolio Management",
  "USR_DEPARTMENT_NAME_Customer Operations_ South",
  "USR_EMP_TYPE_Employee"
]
}
],
"user": {
  "displayName": "John Doe",
  "hrData": [
    {
      "title": "Job Code Name",
      "id": "JOB_CODE_NAME",
      "value": "Business Representitive"
    }
  ]
}

```

```
    },
    {
      "title": "Line of Business",
      "id": "LINEOFBUSINESS",
      "value": "Portfolio Management"
    },
    {
      "title": "Department",
      "id": "DEPARTMENT",
      "value": " South"
    },
    {
      "title": "Employee Type",
      "id": "EMPTYTYPE",
      "value": "Employee"
    }
  ]
},
"entitlementsCount": 2,
"entitlementsRemainingCount": 9,
"lastEntitlementId": "ent4"
}
```

POST /api/userDetails/decisions

★ *POST /api/userDetails/decisions*

Filter by time period by using greater than and/or less than date-times.

Endpoint

```
/api/userDetails/decisions
```

Authorization

```
<Bearer Token JWT-value>
```

Headers

```
Content-Type      application/json
```

Query Parameters

Parameter	Type	Description
user	string	User ID (required)
filter	object	Filter to add (single property shown below)

Filter Query Object Property

Parameter	Type	Description
timestampThresholds		Timestamp threshold object

timestampThresholds Object Properties

Parameter	Type	Description
gt	string	Greater than timestamp (format: yyyy-mm-ddThh:mm:ss.SSSZ). Cannot be present with gte .
gte	string	Greater than or equal timestamp (format: yyyy-mm-ddThh:mm:ss.SSSZ). Cannot be present with gt .
lt	string	Less than timestamp (format: yyyy-mm-ddThh:mm:ss.SSSZ). Cannot be present with lte .
lte	string	Less than or equal timestamp (format: yyyy-mm-ddThh:mm:ss.SSSZ). Cannot be present with le .

Example Request

```
curl -k -X POST \
https://autoid-ui.forgerock.com/api/userDetails/decisions?
user=john.doe&filter[timestampThresholds][gt]=2021-10-
01T10:01:19.937Z&filter[timestampThresholds][lte]=2021-10-
02T10:01:11.937Z' \
```

```
-H 'Authorization: Bearer <token value>' \  
-H 'Content-Type: application/json'
```

Example Response

```
{  
  "decisions": [  
    {  
      "entitlement": "Web_tildeNon-Union_Power_II",  
      "is_certified": true,  
      "is_revoked": false,  
      "is_processed": true,  
      "is_archived": false,  
      "author": "bob.rodgers",  
      "author_name": "Bob Rodgers",  
      "author_type": "Zoran Admin",  
      "reason": "service-connector-logging",  
      "last_updated": "2021-10-01T12:01:19.937Z "  
    }  
  ]  
}
```

POST /api/userDetails/hrData

POST /api/userDetails/hrData

Get a user's HR data. [User, Supervisor, Ent Owner, App Owner, Admin]

Endpoint

```
/api/userDetails/hrData
```

Authorization

```
<Bearer Token JWT-value>
```

Headers

Content-Type **application/json**

Body

```
{
  "employeeId": "john.doe"
}
```

Example Request

```
curl --request POST "https://autoid-
api.forgerock.com/api/userDetails/hrData" \
--header "Content-Type: application/json" \
--header "Authorization: Bearer <token>" \
--data-raw '{
  "employeeId": "john.doe"
}'
```

Example Response

```
{
  "user": [
    {
      "id": "USER_NAME",
      "title": "User Name",
      "value": "john.doe"
    },
    {
      "id": "CHIEF",
      "title": "Chief",
      "value": "Yes"
    },
    {
      "id": "CITY",
      "title": "City",
      "value": "Toledo"
    },
    {
      "id": "USER_DISPLAY_NAME",
```

```
    "title": "User Display Name",
    "value": "John Doe"
  },
  {
    "id": "EMPLOYEE_TYPE",
    "title": "Employee Type",
    "value": "Employee"
  },
  {
    "id": "MANAGER",
    "title": "Manager",
    "value": "the.manager"
  }
],
"displayName": "John Doe"
}
```

POST /api/userDetails/search

POST /api/userDetails/search

Search for users by name and with applied filters. [Executive, Supervisor, App Owner, Admin]

Endpoint

```
/api/userDetails/search
```

Authorization

```
<Bearer Token JWT-value>
```

Headers

```
Content-Type      application/json
```

Body

```
{
  "username": "john.doe"
}
```

Example Request

```
curl --request POST "https://autoid-
api.forgerock.com/api/userDetails/search" \
--header "Content-Type: application/json"
--data-raw '{
  "username": "john.doe"
}'
```

Example Response

```
{
  "values": [
    {
      "user": "john.doe",
      "isapplicationowner": "false",
      "isentitlementowner": "false",
      "issupervisor": "false",
      "userdisplayname": "John Doe"
    }
  ]
}
```

POST /api/userDetails/ent/autoprovision

POST /api/userDetails/ent/autoprovision

Get user's entitlements for autoprovisioning. [Admin]

Endpoint

```
/api/userDetails/ent/autoprovision
```

Authorization

<Bearer Token JWT-value>

Headers

Content-Type **application/json**

Body

```
{
  "user": "john.doe"
}
```

Example Request

```
curl --request POST "https://autoid-
api.forgerock.com/api/userDetails/ent/autoprovision" \
--header "Content-Type: application/json" \
--header 'Authorization: Bearer <token>' \
--data-raw '{
    "user": "john.doe"
}'
```

Example Response

```
{
  "usr_id": "string",
  "usr_name": "string",
  "ents": [
    {
      "ent_id": "string",
      "ent_name": "string",
      "ent_attribute": "string",
      "ent_risk_level": "string",
      "score": 0,
      "freq": 0,
      "frequion": 0,
      "justification": [
```

```
    {
      "title": "string",
      "value": "string"
    }
  ],
  "app_id": "string",
  "app_name": "string"
}
],
"cursor": "string"
}
```

No links

POST /api/userDetails/autoAction

POST /api/userDetails/autoAction

Get the list of entitlements for a user or list of users for an entitlement to provision, revoke, or certify. [Admin]

Endpoint

```
/api/userDetails/autoAction
```

Authorization

```
<Bearer Token JWT-value>
```

Headers

```
Content-Type      application/json
```

Body

```
{
  "action": "addAccess",
  "usrId": "john.doe",
```

```
"entId": "entitlement_1",
"thresholds": {
  "gte": 0,
  "gt": 0,
  "lte": 0,
  "lt": 0
},
"cursor": "string"
}
```

Example Request

```
curl --request POST "https://autoid-
api.forgerock.com/api/userDetails/autoAction" \
--header "Content-Type: application/json" \
--header "Authorization: Bearer <token>" \
--data-raw '{
  "action": "addAccess",
  "usrId": "john.doe",
  "entId": "entitlement_1",
  "thresholds": {
    "gte": 0,
    "gt": 0,
    "lte": 0,
    "lt": 0
  },
  "cursor": "string"
}'
```

POST /api/userDetails/drivingFactor

POST /api/userDetails/drivingFactor

Get the driving factor data. [User, Supervisor, Ent Owner, App Owner, Admin]

Endpoint

```
/api/userDetails/drivingFactor
```

Authorization

<Bearer Token JWT-value>

Headers

Content-Type **application/json**

Params

```
{
  "entitlement": "entitlement1"
}
```

Example Request

```
curl --request POST "https://autoid-
api.forgerock.com/api/userDetails/drivingFactor" \
--header "Content-Type: application/json" \
--header "Authorization: Bearer <token>" \
--data-raw '{
  "entitlement": "entitlement1"
}'
```

Example Request

```
[
  {
    "ent": "ent1",
    "attribute": {
      "title": "Chief",
      "value": "No"
    },
    "count": 3,
    "rawAttribute": "CHIEF_YES_NO_No"
  },
  {
    "ent": "ent1",
    "attribute": {
```

```
    "title": "City",
    "value": "Tacoma"
  },
  "count": 5,
  "rawAttribute": "CITY_Tacoma"
}
]
```

GET /api/userDetails/distinct

GET /api/userDetails/distinct

Get a list of all users.

Endpoint

```
/api/userDetails/distinct
```

Authorization

```
<Bearer Token JWT-value>
```

Headers

```
Content-Type    application/json
```

Body

```
{
  "username": "john.doe"
}
```

Example Request

```
curl --request GET "https://autoid-
api.forgerock.com/api/userDetails/distinct" \
```

```
-H "Content-Type: application/json" \  
-H "Authorization: Bearer <token>"
```

Example Response

```
[  
  {  
    "usr_id": "john.doe",  
    "usr_name": "John Doe",  
    "usr_manager_id": "jane.smith",  
    "line_of_business_subgroup": "Transmission Operations  
BB",  
    "usr_emp_type": "Employee",  
    "cost_center": "OP_TT4",  
    "is_active": "Y",  
    "usr_display_name": "John Doe",  
    "usr_department_name": "Information Systems 1",  
    "jobcode_name": "Equipment Mechanic",  
    "chief_yes_no": "No",  
    "manager_name": "Jane Smith",  
    "city": "Fairbanks",  
    "line_of_business": "Security",  
    "department": "Information Systems 1"  
  }  
]
```

Single View with Application

IMPORTANT

This endpoint has been deprecated in this release and will be removed in a future release.

NOTE

This endpoint has been updated in this release to accept only string values for all fields.

The following is an Autonomous Identity single view with applications endpoint:

POST employees

POST employees

Endpoint

```
/api/singleViewWithApp/employees
```

Authorization

```
<Bearer Token JWT-value>
```

Body

```
{  
    "employeeId": "elizabeth.saiz",  
    "includeLastAccessed": "true",  
    "pageSize": "5"  
}
```

Example Request

```
curl --location --request POST  
'/api/singleViewWithApp/employees' \  
--header 'Content-Type: application/json' \  
--data-raw '{  
    "employeeId": "elizabeth.saiz",  
    "includeLastAccessed": "true",  
    "pageSize": "5"  
}'
```

Example Response

```
{  
    "high": 0,  
    "medium": 1,  
    "low": 1,  
    "avg_score": 0.25,  
    "app_name": "",
```

```

"app_id": "",
"entitlement_name": "",
"high_risk": null,
"userEntt": [
  {
    "user": "elizabeth.saiz",
    "entitlement": "192aed21-a7d1-40c3-87a3-
9dfa4a3d21f5",
    "app_id": "null",
    "app_name": "test3",
    "entitlement_name": "null",
    "freq": null,
    "frequnion": null,
    "high_risk": "null",
    "justification": [],
    "score": 0.1,
    "user_name": "alpha"
  },
  {
    "user": "elizabeth.saiz",
    "entitlement": "36bad416-d42c-47c2-991e-
623aa3833028",
    "app_id": "null",
    "app_name": "test6",
    "entitlement_name": "null",
    "freq": null,
    "frequnion": null,
    "high_risk": "null",
    "justification": [],
    "score": 0.4,
    "user_name": "vce"
  }
],
"user": "elizabeth.saiz",
"entitlementsCount": 14,
"entitlementsRemainingCount": 10,
"lastEntitlementId": "36bad416-d42c-47c2-991e-
623aa3833028"
}

```

Access Control

The following are Autonomous Identity access control endpoints:

GET /api/userDetails/decisions

GET /api/userDetails/decisions

Get the current entitlement decisions for the user. [Supervisor, Ent Owner, App Owner, Admin]

Endpoint

```
/api/userDetails/decisions1
```

Authorization

```
<Bearer Token JWT-value>
```

Param

```
user=john.doe
```

Example Request

```
curl --request GET "https://autoid-  
api.forgerock.com/api/userDetails/decisions?user=john.doe"  
\  
--header "Content-Type: application/json"
```

Example Response

```
{  
  "decisions": [  
    {  
      "entitlement": "string",  
      "is_certified": true,  
      "is_revoked": true,  
      "is_processed": true,  
      "is_archived": true,  
    }  
  ]  
}
```

```
    "author": "string",
    "author_name": "string",
    "author_type": "string",
    "reason": "string",
    "last_updated": "2021-04-14T18:45:46.916Z"
  }
]
}
```

POST /api/userDetails/decisions

POST /api/userDetails/decisions

Update entitlement decisions for users. [Supervisor, Ent Owner, App Owner, Admin]

Endpoint

```
/api/userDetails/decisions
```

Authorization

```
<Bearer Token JWT-value>
```

Body

```
{
  "assignments": [
    {
      "user": "string",
      "entitlements": [
        "string"
      ]
    }
  ],
  "is_certified": true,
  "is_revoked": true,
  "is_requested": true,
  "is_processed": true,
  "reason": "string"
}
```

Example Request

```
curl --request POST "https://autoid-  
api.forgerock.com/api/userDetails/decisions" \  
-H "accept: /" -H "Content-Type: application/json" \  
--data-raw '{  
  "assignments": [  
    {  
      "user": "string",  
      "entitlements": [  
        "string"  
      ]  
    }  
  ],  
  "is_certified": true,  
  "is_revoked": true,  
  "is_requested": true,  
  "is_processed": true,  
  "reason": "string"  
}'
```

POST /api/rules/decision

POST /api/rules/decision

Update rule decisions. [Supervisor, Ent Owner, App Owner, Admin]

Endpoint

/api/rules/decision

Authorization

<Bearer Token JWT-value>

Body

```

{
  "rules": [
    {
      "entitlement": "string",
      "justification": [
        "string"
      ]
    }
  ],
  "is_autocertify": true,
  "is_autorequest": true,
  "autocertify_reason": "string",
  "autorequest_reason": "string"
}

```

Example Request

```

curl --request POST "https://autoid-
api.forgerock.com/api/rules/decision" \
-H "accept: /" -H "Content-Type: application/json" \
--data-raw '{
  "rules": [
    {
      "entitlement": "string",
      "justification": [
        "string"
      ]
    }
  ],
  "is_autocertify": true,
  "is_autorequest": true,
  "autocertify_reason": "string",
  "autorequest_reason": "string"
}'

```

Applications

The following are Autonomous Identity applications view endpoints:

GET /api/applications

GET /api/applications

Get a list of applications and stats for an Application Owner. [App Owner, Admin]

Endpoint

```
/api/applications
```

Authorization

```
<Bearer Token JWT-value>
```

Params

```
ownerId (optional)  derick.hui  
cursor (optional)  string (Indicator on where to start a  
2+ page list)
```

Example Request

```
curl --request GET "https://autoid-  
api.forgerock.com/api/applications?ownerId=derick.hui" \  
--header "Content-Type: application/json"
```

Example Response

```
{  
  "cursor": "string",  
  "total_applications": 0,  
  "total_entitlements": 0,  
  "total_assignments": 0,  
  "applications": [  
    {  
      "app_id": "string",  
      "app_name": "string",
```

```
    "high": 0,  
    "medium": 0,  
    "low": 0,  
    "avg": 0  
  }  
]  
}
```

POST /api/applications/{appId}

POST /api/applications/{appId}

Get a list of entitlements and stats for a selected application. [App Owner, Admin]

Endpoint

```
/api/applications/{appId}
```

Authorization

```
<Bearer Token JWT-value>
```

Params

```
appId (required)    app_1  
cursor (optional)  string (Indicator on where to start a  
2+ page list)
```

Body

```
{  
  "filters": [  
    {  
      "type": "user",  
      "attribute": "city",  
      "value": ["Seattle", "Denver"]  
    },  
    {
```

```
    "type": "user",
    "attribute": "line_of_business",
    "value": ["Distribution Operations"]
  }
]
```

Example Request

```
curl --request POST "https://autoid-
api.forgerock.com/api/applications/app_1" \
--header "Content-Type: application/json" \
--header "Authorization: Bearer <token>" \
--data-raw '{
  "filters": [
    {
      "type": "user",
      "attribute": "city",
      "value": ["Seattle", "Denver"]
    },
    {
      "type": "user",
      "attribute": "line_of_business",
      "value": ["Distribution Operations"]
    }
  ]
}'
```

Example Response

```
{
  "cursor": "string",
  "total_entitlements": 0,
  "total_users": 0,
  "total_rules": 0,
  "entitlements": [
    {
      "ent": "string",
      "ent_name": "string",
      "high": 0,
      "medium": 0,
```

```
    "low": 0,  
    "avg": 0  
  }  
]  
}
```

POST /api/applications/{appId}/assignments

POST /api/applications/{appId}/assignments

Get filterable user-entitlement assignment and decision data for a specific application.

[App Owner, Admin]

Endpoint

```
api/applications/{appId}/assignments
```

Authorization

```
<Bearer Token JWT-value>
```

Params

appId (required)	app_1
user	string
cursor (optional)	string (Indicator on where to start a 2+ page list)
sortBy	string
sortDir	string

Body

```
{  
  "filters": [  
    {  
      "type": "user",  
      "attribute": "city",  
      "value": [  

```



```

        "Seattle",
        "Denver"
    ]
},
{
    "type": "user",
    "attribute": "line_of_business",
    "value": [
        "Distribution Operations"
    ]
}
]
}

```

Example Request

```

curl --request POST "https://autoid-
api.forgerock.com/api/applications/app_1/assignments" \
--header "Content-Type: application/json" \
--header "Authorization: Bearer <token>" \
--data-raw '{
    "filters": [
        {
            "type": "user",
            "attribute": "city",
            "value": [
                "Seattle",
                "Denver"
            ]
        },
        {
            "type": "user",
            "attribute": "line_of_business",
            "value": [
                "Distribution Operations"
            ]
        }
    ]
}'

```

Example Response

```
{
  "cursor": "string",
  "total_users": 0,
  "total_entitlements": 0,
  "total_assignments": 0,
  "assignments": [
    {
      "ent": "string",
      "ent_name": "string",
      "confidence": 0,
      "user_id": "string",
      "user_name": "string",
      "isCertified": true,
      "dateCertified": "2021-04-14T19:10:39.178Z",
      "isRevoked": true,
      "dateRevoked": "2021-04-14T19:10:39.178Z",
      "isRequested": true,
      "dateRequested": "2021-04-14T19:10:39.178Z",
      "isProcessed": true,
      "approvalAuthor": {
        "id": "string",
        "name": "string"
      }
    }
  ]
}
```

GET /api/applications/search

GET /api/applications/search

Search all applications. [App Owner, Admin]

Endpoint

```
/api/applications/search
```

Authorization

```
<Bearer Token JWT-value>
```

Params

```
by          appOwner or enttOwner
user       user ID
q          Search query string
```

Example Request

```
curl --request GET "https://autoid-
api.forgerock.com/api/applications/search" \
--header "Content-Type: application/json"
```

Example Response

```
{
  "values": [
    {
      "app_id": "string",
      "app_name": "string"
    }
  ]
}
```

Entitlements

The following are Autonomous Identity filtering by entitlements endpoints:

GET /api/entitlements/search

GET /api/entitlements/search

Search for entitlements by name and with applied filters. [Ent Owner, App Owner, Admin]

Endpoint

```
/api/entitlements/search?q=QueryString
```

Authorization

```
<Bearer Token JWT-value>
```

Params

```
by      appOwner or enttOwner
user    user ID
q       Search query string (required)
appId   Application ID to use as a filter
```

Example Request

```
curl --location --request GET 'https://autoid-
api.forgerock.com/api/entitlements/search?
by=enttOwner&user=john.doe&q=WEB&appId=Salesforce' \
--header 'Content-Type: application/json'
```

Example Response

```
{
  "values": [
    {
      "id": "string",
      "app_id": "string",
      "app_name": "string",
      "entt_name": "string"
    }
  ]
}
```

POST /api/entitlements/stats

POST /api/entitlements/stats

Get data for entitlements view. [Supervisor, Ent Owner, Admin]

Endpoint

```
/api/entitlements/stats?  
by=supervisor/entitlementOwner/admin
```

Authorization

```
<Bearer Token JWT-value>
```

Params

```
by      supervisor, roleOwner
```

Body

```
{  
  "ownerId": "timothy.slack",  
  "isHighRiskOnly": true,  
  "isMediumLowRiskOnly": false,  
  "isUserEntitlementsIncluded": true,  
  "filters": [{  
    "type": "app_id",  
    "group": "criticality",  
    "value": "Essential"  
  }]  
}
```

Example Request

```
curl --location --request POST 'https://autoid-  
api.forgerock.com/api/entitlements/stats?by=supervisor' \  
--header 'content-type: application/json' \  
--data-raw '{  
  "ownerId": "timothy.slack",  
  "isHighRiskOnly": true,  
  "isMediumLowRiskOnly": false,  
  "isUserEntitlementsIncluded": true,
```

```
    "filters": [{
      "type": "app_id",
      "group": "criticality",
      "value": "Essential"
    }]
  }'
```

Example Response

```
{
  "total_entitlements": 0,
  "total_subordinates": 0,
  "unscoredEntitlements": 0,
  "scoredEntitlements": 0,
  "usersWithNoEntitlement": 0,
  "usersWithNoScoredEntitlement": 0,
  "distinct_apps": [
    {
      "app_id": "string",
      "app_name": "string",
      "low": 0,
      "medium": 0,
      "high": 0
    }
  ],
  "users": [
    {
      "user": "string",
      "user_name": "string",
      "high": 0,
      "medium": 0,
      "low": 0,
      "avg": "string"
    }
  ],
  "entitlements": [
    {
      "entitlement": "string",
      "entitlement_name": "string",
      "app_id": "string",
      "high_risk": "string",
      "high": 0,
      "medium": 0,

```

```
    "low": 0,  
    "avg": "string"  
  }  
]  
}
```

GET /api/entitlements/id/{id}

GET /api/entitlements/id/{id}

Get entitlement details. [User, Supervisor, Ent Owner, App Owner, Admin]

Endpoint

```
/api/entitlements/id/{id+}
```

Authorization

```
<Bearer Token JWT-value>
```

Params

```
by      entitlement ID
```

Example Request

```
curl --request GET "https://autoid-  
api.forgerock.com/api/entitlements/id/1234" \  
--header "Content-Type: application/json"
```

Example Response

```
{  
  "entitlement_name": "string",  
  "scores": {  
    "avg": 0,
```

```

    "high": 0,
    "medium": 0,
    "low": 0
  },
  "drivingFactors": [
    {
      "attribute": {
        "id": "string",
        "title": "string",
        "value": "string"
      },
      "count": 0
    }
  ],
  "userScores": [
    {
      "score": 0,
      "count": 0
    }
  ],
  "users": [
    {
      "user": "string",
      "user_name": "string",
      "app_id": "string",
      "freq": 0,
      "frequion": 0,
      "justification": [
        {
          "title": "string",
          "value": "string"
        }
      ],
      "rawJustification": [
        "string"
      ],
      "score": 0
    }
  ]
}

```

GET /api/entitlements/unscored

GET /api/entitlements/unscored

Get unscored entitlements and users for a given Supervisor or Entitlement Owner ID.
[Supervisor, Ent Owner, Admin]

Endpoint

```
/api/entitlements/unscored
```

Authorization

```
<Bearer Token JWT-value>
```

Params

```
by      supervisor, entitlement owner  
user    supervisor or entitlement owner user ID
```

Example Request

```
curl --request GET "https://autoid-  
api.forgerock.com/api/entitlements/unscored?  
by=supervisor&user=1234" \  
--header "Content-Type: application/json"
```

GET /api/entitlements/distinct

GET /api/entitlements/distinct

Get a list of all entitlements.

Endpoint

```
/api/entitlements/distinct
```

Authorization

```
<Bearer Token JWT-value>
```

Example Request

```
curl --location --request GET 'https://autoid-api.forgerock.com/api/entitlements/distinct' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>'
```

Example Response

```
[
  {
    "ent_id": "AccessType : XMLP_ADMIN",
    "ent_name": "AccessType : XMLP_ADMIN",
    "ent_owner_id": "julie.yee",
    "app_id": "Salesforce",
    "ent_criticality": "Non-Essential",
    "ent_risk_level": "Medium"
  }
]
```

GET /api/entitlements/recommendations

GET /api/entitlements/recommendations

Get a list of entitlement recommendations for a given set of user attributes.

Endpoint

```
/api/entitlements/recommendations
```

Authorization

```
<Bearer Token JWT-value>
```

Body

```

{
  "confidenceThreshold": 0.1,
  "maxResults": 1000,
  "offset": 200,
  "userAttributes": [
    "0E_USR_MANAGER_ID_gregory.suhr",
    "13_USR_DEPARTMENT_NAME_Facilities Area
A",
    "0C_CHIEF_YES_NO_No",
    "0C_MANAGER_NAME_Gregory Suhr",
    "0C_USR_EMP_TYPE_Employee",
    "13_USR_DEPARTMENT_NAME_Wireless
Operations"
  ]
}

```

Example Request

```

curl --request GET "https://autoid-
api.forgerock.com/api/entitlements/recommendations" \
--header "Content-Type: application/json" \
--header "Authorization: Bearer <token>" \
--data-raw '{
  "confidenceThreshold": 0.1,
  "maxResults": 1000,
  "offset": 200,
  "userAttributes": [
    "0E_USR_MANAGER_ID_gregory.suhr",
    "13_USR_DEPARTMENT_NAME_Facilities Area A",
    "0C_CHIEF_YES_NO_No",
    "0C_MANAGER_NAME_Gregory Suhr",
    "0C_USR_EMP_TYPE_Employee",
    "13_USR_DEPARTMENT_NAME_Wireless Operations"
  ]
}'

```

Example Response

```

[
  {
    "attributes": [

```

```

        "0C_CHIEF_YES_NO_No",
        "0E_USR_MANAGER_ID_gregory.suhr"
    ],
    "entitlement": "06_ENT_ID_WEB_user_WEB RCQ Flare NonIT
Distribution_II",
    "confidence": 0.14,
    "frequency": 22
},
{
    "attributes": [
        "0C_MANAGER_NAME_Gregory Suhr",
        "13_USR_DEPARTMENT_NAME_Facilities Area A"
    ],
    "entitlement": "06_ENT_ID_Web_tildeNon-security plus",
    "confidence": 0.14,
    "frequency": 28
},
]

```

Rules

The following are Autonomous Identity rules endpoints (Updated APIs in this release are marked with ★):

GET /api/rules/info

GET /api/rules/info

List information and statistics regarding available rules. [Ent Owner, App Owner, Admin]

Endpoint

/api/rules/info

Authorization

<Bearer Token JWT-value>

Params

```
by      enttowner, appOwner
user    patrick.murphy
```

Example Request

```
curl --request GET "https://autoid-
api.forgerock.com/api/rules/info?
by=appOwner&user=patrick.murphy" \
--header "Content-Type: application/json"
```

Example Response

```
{
  "countRules": 0,
  "countAssignments": 0,
  "countApplications": 0,
  "applications": [
    {
      "app_id": "string",
      "app_name": "string",
      "countAssignments": 0,
      "low": 0,
      "medium": 0,
      "high": 0
    }
  ]
}
```

GET /api/rules

★ GET /api/rules

List the available rules for a user. [Ent Owner, App Owner, Admin]. You can filter by time period by using greater than and/or less than date-times.

Endpoint

/api/rules/

Authorization

<Bearer Token JWT-value>

Query Parameters

Parameter	Type	Description
by	string	User type to apply when searching rules: enttOwner , appOwner
user	string	User ID when applying <i>by</i> filters.
cursor	string	Position to start a 2+ page list.
pageSize	string	Number of records per page to retrieve.
filter	object	Additional filters to apply (see properties below).

Filter Query Object Property

Parameter	Type	Description
lowConfidence	boolean	Low confidence scores only.
medConfidence	boolean	Medium confidence scores only.
highConfidence	boolean	High confidence scores only.
app_id	string array	Array of application IDs.
autoCertify	boolean	Auto-certified only.
autoRequest	boolean	Auto-requested only.
entitlement	string	Entitlement ID
timestampThresholds	object	Timestamp threshold object (available properties below)

timestampThresholds Object Properties

Parameter	Type	Description
gt	string	Greater than timestamp (format: yyyy-mm-ddThh:mm:ss.SSSZ). Cannot be present with gte .
gte	string	Greater than or equal timestamp (format: yyyy-mm-ddThh:mm:ss.SSSZ). Cannot be present with gt .
lt	string	Less than timestamp (format: yyyy-mm-ddThh:mm:ss.SSSZ). Cannot be present with lte .
lte	string	Less than or equal timestamp (format: yyyy-mm-ddThh:mm:ss.SSSZ). Cannot be present with le .

Example Request

```
curl -k -X POST \  
https://autoid-ui.forgerock.com/api/rules?\  
by=enttOwner&filter[app_id]\  
[]=SAP&filter[autoCertify]=true&user=david.elliott&filter[t\  
imestampThresholds][gte]=2021-10-\  
01T10:01:19.937Z&filter[timestampThresholds][lt]=2021-10-\  
02T10:01:11.937Z' \  
-H 'Authorization: Bearer <token value>' \  
-H 'Content-Type: application/json'
```

Example Response

```
{  
  "cursor": null,  
  "totalRulesCount": 1,  
  "rules": [  
    {  
      "entitlement":  
        {
```

```

    "ent_id": "Cognos EDI Reporting",
    "ent_owner_id": "david.elliott",
    "ent_criticality": "Essential",
    "ent_risk_level": "High",
    "ent_name": "Cognos EDI Reporting",
    "app_id": "SAP"
  },
  "app":
  {
    "app_criticality": "Essential",
    "app_name": "SAP",
    "app_owner_id": "derick.hui",
    "app_risk_level": "High",
    "app_id": "SAP"
  },
  "justification": [
    {
      "id": "CHIEF_YES_NO",
      "title": "Chief?",
      "value": "No"
    },
    {
      "id": "MANAGER_NAME",
      "title": "Manager Name",
      "value": "Patrick Gardner"
    },
    {
      "id": "USR_EMP_TYPE",
      "title": "Employee Type",
      "value": "Employee"
    },
    {
      "id": "USR_DEPARTMENT_NAME",
      "title": "User department Name",
      "value": "General Office"
    }
  ],
  "rawJustification": [
    "0C_CHIEF_YES_NO_No",
    "0C_MANAGER_NAME_Patrick Gardner",
    "0C_USR_EMP_TYPE_Employee",
    "13_USR_DEPARTMENT_NAME_General Office"
  ],
  "assignees": [
    {

```



```

        "id": "gordon.choy",
        "name": "Gordon Choy"
    },
    {
        "id": "jennifer.kanenaga",
        "name": "Jennifer Kanenaga"
    },
    {
        "id": "lawrence.nicholls",
        "name": "Lawrence Nicholls"
    },
    {
        "id": "roel.dilag",
        "name": "Roel Dilag"
    },
    {
        "id": "salvatore.taormina",
        "name": "Salvatore Taormina"
    }
],
"confidence": 1,
"countUnassigned": 0,
"countAssigned": 5,
"isAutoCertify": true,
"autoCertifyDate": "2021-10-01T19:01:31.567Z",
"isAutoRequest": true,
"autoRequestDate": "2021-10-01T19:01:31.567Z",
"approvalAuthor":
{
    "id": "bob.rodgers",
    "name": "Bob Rodgers"
},
"requestApprovalReason": "Test",
"certifyApprovalReason": "Test"
}
]
}

```

Filters

The following are Autonomous Identity Filters endpoints:

GET /api/filters/owner

GET /api/filters/owner

Get filterable attributes and values. [Supervisor, Ent Owner, Admin]

Endpoint

```
/api/filters/owner?by=supervisor&user=albert.pardini
```

Authorization

```
<Bearer Token JWT-value>
```

Query Parameters

```
by      supervisor, enttOwner  
user    albert.pardini
```

Example Request

```
curl --request GET "https://autoid-  
api.forgerock.com/api/filters/owner?  
by=supervisor&user=albert.pardini" \  
--header "Content-Type: application/json"
```

Example Response

```
{  
  "items": [  
    {  
      "title": "string",  
      "field": "string",  
      "filters": {  
        "field": "string",  
        "title": "string",  
        "options": [  

```

```
    {
      "text": "string",
      "value": "string",
      "count": 0
    }
  ]
}
]
```

GET /api/filters/app

GET /api/filters/app

Get filterable attributes and values. [App Owner, Admin]

Endpoint

```
/api/filters/app
```

Authorization

```
<Bearer Token JWT-value>
```

Query Parameters

```
id: application ID
```

Example Request

```
curl --request GET "https://autoid-  
api.forgerock.com/api/filters/app?id=app_1" \  
--header "Content-Type: application/json"
```

Example Response

```
{
  "items": [
    {
      "title": "string",
      "field": "string",
      "filters": {
        "field": "string",
        "title": "string",
        "options": [
          {
            "text": "string",
            "value": "string",
            "count": 0
          }
        ]
      }
    }
  ]
}
```

Roles

The following are Autonomous Identity filtering by roles endpoints:

POST /api/roles

GET /api/roles

Create draft roles and make updates to roles.

Endpoint

/api/roles

Authorization

<Bearer Token JWT-value>

Body

```
{
  "action": "create" | "save" | "publish" | "unpublish",
  "updateAllMetadata": false,
  "role": {
    "role_id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
    "status": "draft",
    "custom_role": false,
    "member_count": 0,
    "assignment_count": 0,
    "entitlements": [
      "string"
    ],
    "entitlements_metadata": [
      {
        "ent_id": "string",
        "ent_name": "string",
        "application": {
          "app_id": "string",
          "app_name": "string",
          "application_owner": {
            "usr_id": "string",
            "usr_name": "string",
            "usr_manager_id": "string"
          }
        },
        "entitlement_owner": {
          "usr_id": "string",
          "usr_name": "string",
          "usr_manager_id": "string"
        }
      }
    ],
    "justifications": [
      "string"
    ],
    "role_metadata": {
      "role_name": "string",
      "description": "string",
      "role_owner": {
        "usr_display_name": "string",
        "usr_id": "string"
      }
    }
  }
}
```

```
}
}
}
```

Example Request

```
curl --location --request POST 'https://autoid-
api.forgerock.com/api/roles' \
--header 'Content-Type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw '{
  "action": "create" | "save" | "publish" | "unpublish",
  "updateAllMetadata": false,
  "role": {
    "role_id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
    "status": "draft",
    "custom_role": false,
    "member_count": 0,
    "assignment_count": 0,
    "entitlements": [
      "string"
    ],
    "entitlements_metadata": [
      {
        "ent_id": "string",
        "ent_name": "string",
        "application": {
          "app_id": "string",
          "app_name": "string",
          "application_owner": {
            "usr_id": "string",
            "usr_name": "string",
            "usr_manager_id": "string"
          }
        },
        "entitlement_owner": {
          "usr_id": "string",
          "usr_name": "string",
          "usr_manager_id": "string"
        }
      }
    ],
    "justifications": [
```

```
    "string"
  ],
  "role_metadata": {
    "role_name": "string",
    "description": "string",
    "role_owner": {
      "usr_display_name": "string",
      "usr_id": "string"
    }
  }
}
```

Example Response

204 (No Content)

POST /api/roles/delete

POST /api/roles/delete

Delete roles.

Endpoint

/api/roles/delete

Authorization

<Bearer Token JWT-value>

Body

```
{
  "role_id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
  "status": "draft" | "active"
}
```

Example Request

```
curl --location --request POST 'https://autoid-  
api.forgerock.com/api/admin/updateSelf' \  
--header 'Content-Type: application/json' \  
--header 'Authorization: Bearer <token>' \  
--data-raw '{  
  "role_id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",  
  "status": "draft" | "active"  
'
```

Example Response

```
204 (No content)
```

POST /api/roles/export

POST /api/roles/export

Export role data to json.

Endpoint

```
/api/roles/export
```

Authorization

```
<Bearer Token JWT-value>
```

Body

```
{  
  "timestampThresholds": {  
    "gte": "2021-06-02T12:00:00.000Z",  
    "lt": "2021-08-02T12:00:00.000Z"  
  },  
  "usrId": "roy.heavey",
```



```
"entId": "Cognos Reporting",
"status": "draft" | "active" | "candidate"
}
```

Example Request

```
curl --location --request POST 'https://autoid-
api.forgerock.com/api/roles/export' \
--header 'Content-type: application/json' \
--header 'Authorization: Bearer <token>' \
--data-raw '{
    "timestampThresholds": {
        "gte": "2021-06-02T12:00:00.000Z",
        "lt": "2021-08-02T12:00:00.000Z"
    },
    "usrId": "roy.heavey",
    "status": "draft"
}'
```

Example Response

```
{
  roles: [
    {
      "role_id": "3fa85f64-5717-4562-b3fc-2c963f66afa6",
      "status": "draft",
      "custom_role": false,
      "member_count": 0,
      "assignment_count": 0,
      "entitlements": [
        "string"
      ],
      "entitlements_metadata": [
        {
          "ent_id": "string",
          "ent_name": "string",
          "application": {
            "app_id": "string",
            "app_name": "string",
            "application_owner": {
              "usr_id": "string",

```

```

        "usr_name": "string",
        "usr_manager_id": "string"
    }
},
"entitlement_owner": {
    "usr_id": "string",
    "usr_name": "string",
    "usr_manager_id": "string"
}
},
],
"justifications": [
    "string"
],
"role_metadata": {
    "role_name": "string",
    "description": "string",
    "role_owner": {
        "usr_display_name": "string",
        "usr_id": "string"
    }
}
}
]
}

```

Ingest

The following endpoints support the ingestion of base entities, such as applications, entitlements, identities, assignments, data sources, and mappings. New APIs introduced in this release are marked with .

To access these endpoints, you need a valid API key in the *X-API-KEY* header for authorization. To obtain an API key, see [Generate an API Key](#).

POST /api/ingest/applications

POST /api/ingest/applications

Create, update, upsert, or delete application entities.

Endpoint

/api/ingest/applications

Authorization

<API Key-value>

Body Parameters

Parameter	Type	Description
action	string	Action to perform: create, update, upsert, delete (required)
apps	array	Array of application objects (properties below) (required)

Base Application Object Properties:

Parameter	Type	Description
app_id	string	Application ID (required)
app_name	string	Application Name
app_owner_id	string	Application owner user ID

Example Request

```
curl -k -X POST \
https://autoid-ui.forgerock.com/api/ingest/applications \
-H 'X-API-KEY: <api key value>' \
-H 'Content-Type: application/json' \
-d '{
  "action": "create",
  "apps": [
    {
      "app_id": "app1",
      "app_name": "Test App",
      "app_owner_id": "bob.rodgers"
    }
  ]
}
```

```
]
}'
```

Example Response

```
{
  "message": "ok"
}
```

POST /api/ingest/entitlements

★ *POST /api/ingest/entitlements*

Create, update, upsert, or delete entitlement entities.

Endpoint

```
/api/ingest/entitlements
```

Authorization

```
<API Key-value>
```

Body

Body Parameters

Parameter	Type	Description
action	string	Action to perform: create, update, upsert, delete (required)
entitlements	array	Array of entitlements objects (properties below) (required)

Base Entitlements Object Properties

Parameter	Type	Description
-----------	------	-------------

Parameter	Type	Description
ent_id	string	Entitlement ID (required)
ent_name	string	Entitlement Name
ent_owner_id	string	Entitlement owner user ID
app_id	string	Application ID

Example Request

```
curl -k -X POST \
https://autoid-ui.forgerock.com/api/ingest/entitlements \
-H 'X-API-KEY: <api key value>' \
-H 'Content-Type: application/json' \
-d '{
  "action": "upsert",
  "entitlements": [
    {
      "ent_id": "ent1",
      "ent_name": "Test Ent",
      "ent_owner_id": "bob.rodgers",
      "app_id": "app1"
    }
  ]
}'
```

Example Response

```
{
  "message": "ok"
}
```

POST /api/ingest/identities

★ *POST /api/ingest/identities*

Create, update, upsert, or delete identity entities.

Endpoint

```
/api/ingest/identities
```

Authorization

```
<API Key-value>
```

Body Parameters

Parameter	Type	Description
action	string	Action to perform: create, update, upsert, delete (required)
entitlements	array	Array of identities objects (properties below) (required)

Base Entitlements Object Properties

Parameter	Type	Description
usr_id	string	User ID (required)
usr_name	string	User name
usr_manager_id	string	User's manager ID

Example Request

```
curl -k -X POST \  
https://autoid-ui.forgerock.com/api/ingest/identities \  
-H 'X-API-KEY: <api key value>' \  
-H 'Content-Type: application/json' \  
-d '{  
  "action": "upsert",  
  "identities": [  
    {  
      "usr_id": "john.doe",
```

```
"usr_name": "John Doe",
"usr_manager_id": "bob.rodgers"
},
{
"usr_id": "jane.smith",
"usr_name": "Jane Smith",
"usr_manager_id": "bob.rodgers"
}
]
}'
```

Example Response

```
{
  "message": "ok"
}
```

POST /api/ingest/assignments

★ *POST /api/ingest/assignments*

Create, update, upsert, or delete assignment entities.

Endpoint

```
/api/ingest/assignments
```

Authorization

```
<API Key-value>
```

Body Parameters

Parameter	Type	Description
action	string	Action to perform: create, update, upsert, delete (required)

Parameter	Type	Description
entitlements	array	Array of assignment objects (properties below) (required)

Base Entitlements Object Properties

Parameter	Type	Description
ent_id	string	Entitlementd ID (required)
usr_id	string	User ID (required)

Example Request

```
curl -k -X POST \
https://autoid-ui.forgerock.com/api/ingest/assignments \
-H 'X-API-KEY: <api key value>' \
-H 'Content-Type: application/json' \
-d '{
  "action": "upsert",
  "assignments": [
    {
      "usr_id": "john.doe",
      "ent_id": "ent1"
    },
    {
      "usr_id": "jane.smith",
      "ent_id": "ent1"
    }
  ]
}'
```

Example Response

```
{
  "message": "ok"
}
```


★ *POST /api/ingest/datasources*

Get data sources. Optional filtering can be applied as a JSON request body outlined below:

Endpoint

```
/api/ingest/datasources
```

Authorization

```
<API Key-value>
```

Body Parameters

Parameter	Type	Description
datasourceId	string	Data source ID
name	string	Data source name
isActive	boolean	Data source activated
connectionTypes	string array	List of connection types to filter: jdbc, csv, generic
entityTypes	string array	List of entity types

Example Request

```
curl -k -X GET \  
https://autoid-ui.forgerock.com/api/ingest/datasources \  
-H 'X-API-KEY: <api key value>' \  
-H 'Content-Type: application/json' \  
-d '{  
  "connectionTypes": ["csv"],  
  "isActive": true  
'
```

Example Response

```
[
  {
    "datasource_id": "fdbfb998-7b3e-4ddc-9e4a-
a4c46cace49e",
    "name": "Test data",
    "sync_type": "full",
    "icon": "apps",
    "isActive": true,
    "entityTypes": {
      "/autoid/system/datasources/fdbfb998-7b3e-4ddc-9e4a-
a4c46cace49e/applications": {
        "uri": {
          "file": "file:/data/input/applications.csv"
        }
      },
      "/autoid/system/datasources/fdbfb998-7b3e-4ddc-9e4a-
a4c46cace49e/assignments": {
        "uri": {
          "file": "file:/data/input/assignments.csv"
        }
      },
      "/autoid/system/datasources/fdbfb998-7b3e-4ddc-9e4a-
a4c46cace49e/entitlements": {
        "uri": {
          "file": "file:/data/input/entitlements.csv"
        }
      },
      "/autoid/system/datasources/fdbfb998-7b3e-4ddc-9e4a-
a4c46cace49e/identities": {
        "uri": {
          "file": "file:/data/input/identities.csv"
        }
      }
    },
    "connectionSettings": {
      "csv": {}
    }
  }
]
```

POST /api/ingest/mappings

★ *POST /api/ingest/mappings*

Get mappings. Optional filtering can be applied as a JSON request body outlined below:

Endpoint

```
/api/ingest/mappings
```

Authorization

```
<API Key-value>
```

Body Parameters

Parameter	Type	Description
mappingId	string	Mapping ID
sourceEntity	string	Mapping source entity
targetEntity	string	Mapping target entity
sourceProperties	string array	List of source properties to filter on
targetProperties	string array	List of target properties to filter on

Example Request

```
curl -k -X GET \  
https://autoid-ui.forgerock.com/api/ingest/mappings \  
-H 'X-API-KEY: <api key value>' \  
-H 'Content-Type: application/json' \  
-d '{  
  "targetProperties": ["app_id", "app_name"]  
}'
```

Example Response

```
[
  {
    "mapping_id": "fb6896e5-8d0a-4bd7-b10d-5608c9a953a1",
    "source_entity": "/autoid/system/datasources/0474f92c-
d530-43cc-a012-29fb6c8b3b8b/applications",
    "target_entity": "/autoid/base/applications",
    "properties": [
      {
        "source": "APP_ID",
        "target": "app_id",
        "apply": true
      },
      {
        "source": "APP_NAME",
        "target": "app_name",
        "apply": true
      },
      {
        "source": "APP_OWNER_ID",
        "target": "app_owner_id",
        "apply": true
      }
    ]
  }
]
```

Jobs

You can define, run, and get the status of each job using REST API endpoints. When using REST calls, the available job types are the following:

- ingest
- train
- mine
- predict-as-is
- recommend
- load

- create-assignment-index
- create-assignment-index-report
- anomaly
- insight
- audit

The following are Autonomous Identity jobs endpoints:

POST /api/job_definition

POST /api/job_definition

Set up a job definition.

Endpoint

```
/api/job_definition
```

Authorization

```
Bearer <Token JWT-value> or  
<API Key-value>
```

Body

```
{  
  "branch": "actual",  
  "contextId": "40c20f01-a9d8-4284-b290-c8b6ccdb8b77",  
  "entityData": [  
    {  
      "job_name": "ShowCaseCSVAnomaly",  
      "job_type": "anomaly",  
      "job_parameters": {  
        "driverMemory": "2g",  
        "driverCores": 3,  
        "executorMemory": "3G",  
        "executorCores": 6  
      }  
    }  
  ],  
}
```

```
"indexingRequired": true,
"tags": {},
"indexInSync": true
}
```

NOTE

contextId is a unique identifier string. It can be anything you define.

Example Request

```
curl 'https://autoid-
ui.forgerock.com/jas/entity/persist/autoid/api/job_definiti
on' \
  -H 'authority: autoid-ui.forgerock.com' \
  -H 'sec-ch-ua: "Chromium";v="92", " Not A;Brand";v="99",
"Google Chrome";v="92"' \
  -H 'accept: application/json, text/plain, /' \
  -H 'x-tenant-id: 8700f5cb-eaca-461e-8c2e-245a25f2399d' \
  -H 'authorization: 1b7789f0-6c2f-4afa-a84b-a65a28f5c1a1'
\
  -H 'sec-ch-ua-mobile: ?0' \
  -H 'user-agent: Mozilla/5.0 (Macintosh; Intel Mac OS X
10_15_7) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/92.0.4515.131 Safari/537.36' \
  -H 'content-type: application/json' \
  -H 'origin: https://autoid-ui.forgerock.com' \
  -H 'sec-fetch-site: same-origin' \
  -H 'sec-fetch-mode: cors' \
  -H 'sec-fetch-dest: empty' \
  -H 'referrer: https://autoid-ui.forgerock.com/jobs' \
  -H 'accept-language: en-US,en;q=0.9' \
  --data-raw '{
    "branch": "actual",
    "contextId": "40c20f01-a9d8-4284-b290-
c8b6ccdb8b77",
    "entityData": [
      {
        "job_name": "ShowCaseCSVAnomaly",
        "job_type": "anomaly",
        "job_parameters": {
          "driverMemory": "2g",
          "driverCores": 3,
```

```

        "executorMemory": "3G",
        "executorCores": 6
    }
}
],
"indexingRequired": true,
"tags": {},
"indexInSync": true
}' \
--compressed \
--insecure
}
}'

```

The Job definition for data ingestion requires a `datasourceId`, which you can query. See [API Key Examples](#).

Example Request (ingest)

```

curl 'https://autoid-
ui.forgerock.com/jas/entity/persist/autoid/api/job_definiti
on' \
  -H 'authority: autoid-ui.forgerock.com' \
  -H 'sec-ch-ua: "Chromium";v="92", " Not A;Brand";v="99",
"Google Chrome";v="92"' \
  -H 'accept: application/json, text/plain, /' \
  -H 'x-tenant-id: 8700f5cb-eaca-461e-8c2e-245a25f2399d' \
  -H 'authorization: 1b7789f0-6c2f-4afa-a84b-a65a28f5c1a1'
\
  -H 'sec-ch-ua-mobile: ?0' \
  -H 'user-agent: Mozilla/5.0 (Macintosh; Intel Mac OS X
10_15_7) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/92.0.4515.131 Safari/537.36' \
  -H 'content-type: application/json' \
  -H 'origin: https://autoid-ui.forgerock.com' \
  -H 'sec-fetch-site: same-origin' \
  -H 'sec-fetch-mode: cors' \
  -H 'sec-fetch-dest: empty' \
  -H 'referrer: https://autoid-ui.forgerock.com/jobs' \
  -H 'accept-language: en-US,en;q=0.9' \
  --data-raw '{
    "branch": "actual",
    "contextId": "ba9cefff-1e06-4cc3-b7d6-

```

```
d15e2126351c",
    "entityData": [
      {
        "job_name": "ShowCaseCSVIngest",
        "job_type": "ingest",
        "job_parameters": {
          "driverMemory": "2g",
          "driverCores": 3,
          "executorMemory": "3G",
          "executorCores": 6,
          "datasourceId": "2d7a6a76-469c-4035-
b312-fb1daf104e98"
        }
      }
    ],
    "indexingRequired": true,
    "tags": {},
    "indexInSync": true
  }' \
--compressed \
--insecure
```

POST /jas/job/run

POST /jas/job/run

Run the job definition.

Endpoint

```
/jas/job/run
```

Authorization

```
Bearer <Token JWT-value> or  
<API Key-value>
```

Body


```
{
  "jobType": "ingest",
  "jobDefinitionName": "ShowCaseCSVIngest"
}
```

Example Request

```
curl 'https://autoid-ui.forgerock.com/jas/job/run' \
  -H 'authority: autoid-ui.forgerock.com' \
  -H 'sec-ch-ua: "Chromium";v="92", " Not A;Brand";v="99",
  "Google Chrome";v="92"' \
  -H 'accept: application/json, text/plain, /' \
  -H 'x-tenant-id: 8700f5cb-eaca-461e-8c2e-245a25f2399d' \
  -H 'authorization: 1b7789f0-6c2f-4afa-a84b-a65a28f5c1a1' \
  \
  -H 'sec-ch-ua-mobile: ?0' \
  -H 'user-agent: Mozilla/5.0 (Macintosh; Intel Mac OS X
  10_15_7) AppleWebKit/537.36 (KHTML, like Gecko)
  Chrome/92.0.4515.131 Safari/537.36' \
  -H 'content-type: application/json' \
  -H 'origin: https://autoid-ui.forgerock.com' \
  -H 'sec-fetch-site: same-origin' \
  -H 'sec-fetch-mode: cors' \
  -H 'sec-fetch-dest: empty' \
  -H 'referrer: https://autoid-ui.forgerock.com/jobs' \
  -H 'accept-language: en-US,en;q=0.9' \
  --data-raw '{
    "jobType": "ingest",
    "jobDefinitionName": "ShowCaseCSVIngest"
  }' \
  --compressed \
  --insecure
```

GET /jas/job/status

GET /jas/job/status

Obtain the job's status.

Endpoint

/jas/job/status

Authorization

**Bearer <Token JWT-value> or
<API Key-value>**

Body

```
{
  "jobType": "anomaly",
  "jobDefinitionName": "ShowCaseCSVAnomaly"
}
```

Example Request

```
curl 'https://autoid-ui.forgerock.com/jas/job/status' \
  -H 'authority: autoid-ui.forgerock.com' \
  -H 'sec-ch-ua: "Chromium";v="92", " Not A;Brand";v="99",
  "Google Chrome";v="92"' \
  -H 'accept: application/json, text/plain, /' \
  -H 'x-tenant-id: 8700f5cb-eaca-461e-8c2e-245a25f2399d' \
  -H 'authorization: 1b7789f0-6c2f-4afa-a84b-a65a28f5c1a1'
\
  -H 'sec-ch-ua-mobile: ?0' \
  -H 'user-agent: Mozilla/5.0 (Macintosh; Intel Mac OS X
  10_15_7) AppleWebKit/537.36 (KHTML, like Gecko)
  Chrome/92.0.4515.131 Safari/537.36' \
  -H 'content-type: application/json' \
  -H 'origin: https://autoid-ui.forgerock.com' \
  -H 'sec-fetch-site: same-origin' \
  -H 'sec-fetch-mode: cors' \
  -H 'sec-fetch-dest: empty' \
  -H 'referrer: https://autoid-ui.forgerock.com/jobs' \
  -H 'accept-language: en-US,en;q=0.9' \
  --data-raw '{
    "jobType": "anomaly",
    "jobDefinitionName": "ShowCaseCSVAnomaly"
  }' \
```

```
--compressed \  
--insecure
```

GET /jas/job/search

GET /jas/job/search

Search for a job definition.

Endpoint

```
/jas/job/search
```

Authorization

```
Bearer <Token JWT-value> or  
<API Key-value>
```

Body

```
{  
  "query": {  
    "sort": [  
      {  
        "job_name.keyword": {  
          "order": "asc"  
        }  
      },  
      {  
        "metadata.primaryKey.keyword": {  
          "order": "desc"  
        }  
      }  
    ],  
    "size": 10,  
    "track_total_hits": true,  
    "query": {  
      "match_all": {}  
    }  
  }  
}
```

```
}  
}
```

Example Request

```
curl 'https://autoid-  
ui.forgerock.com/jas/entity/search/autoid/api/job_definitio  
n' \  
  -H 'authority: autoid-ui.forgerock.com' \  
  -H 'sec-ch-ua: "Chromium";v="92", " Not A;Brand";v="99",  
"Google Chrome";v="92"' \  
  -H 'accept: application/json, text/plain, /' \  
  -H 'x-tenant-id: 8700f5cb-eaca-461e-8c2e-245a25f2399d' \  
  -H 'authorization: 1b7789f0-6c2f-4afa-a84b-a65a28f5c1a1'  
\  
  -H 'sec-ch-ua-mobile: ?0' \  
  -H 'user-agent: Mozilla/5.0 (Macintosh; Intel Mac OS X  
10_15_7) AppleWebKit/537.36 (KHTML, like Gecko)  
Chrome/92.0.4515.131 Safari/537.36' \  
  -H 'content-type: application/json' \  
  -H 'origin: https://autoid-ui.forgerock.com' \  
  -H 'sec-fetch-site: same-origin' \  
  -H 'sec-fetch-mode: cors' \  
  -H 'sec-fetch-dest: empty' \  
  -H 'referrer: https://autoid-ui.forgerock.com/jobs' \  
  -H 'accept-language: en-US,en;q=0.9' \  
  --data-raw '{  
    "query": {  
      "sort": [  
        {  
          "job_name.keyword": {  
            "order": "asc"  
          }  
        },  
        {  
          "metadata.primaryKey.keyword": {  
            "order": "desc"  
          }  
        }  
      ],  
      "size": 10,  
      "track_total_hits": true,  
      "query": {
```

```
        "match_all": {}  
      }  
    }  
  }' \  
--compressed \  
--insecure
```

Was this helpful?  

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