
Textual Index

Introduction

A textual index is a data structure used in database systems to facilitate efficient search and retrieval of text-based information. It is designed to handle large volumes of textual data and provide quick access to relevant documents or records based on specified search criteria.

When a search query is performed on a database with a textual index, the index is queried to identify relevant documents or records that match the search terms. The index provides information about the location and relevance of the documents, which enables the database system to retrieve and present the results in a timely manner.

Textual indexes play a crucial role in enabling efficient search and retrieval of textual information in databases, making them an essential component in applications that handle large volumes of textual data, such as search engines, content management systems, and document repositories.

Soffid incorporates the textual index from version 3.5 using [the Apache Lucene library](#).

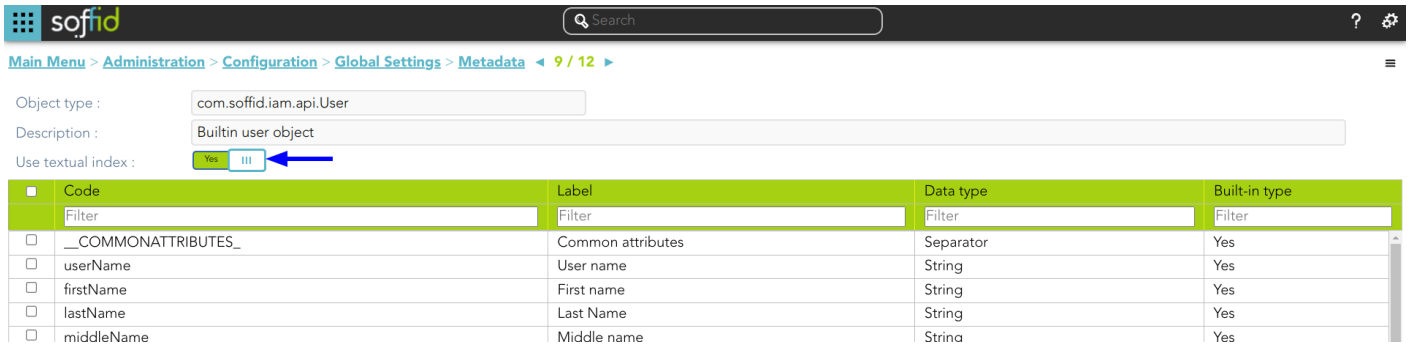
Index configuration

Soffid allows you to configure the objects you want to use in the textual index. To do this, you must select the proper object from the metadata page and enable the option "Use textual index". Once you enable this option, the textual index will be applied to the attributes of this object that have been included in the quick search.

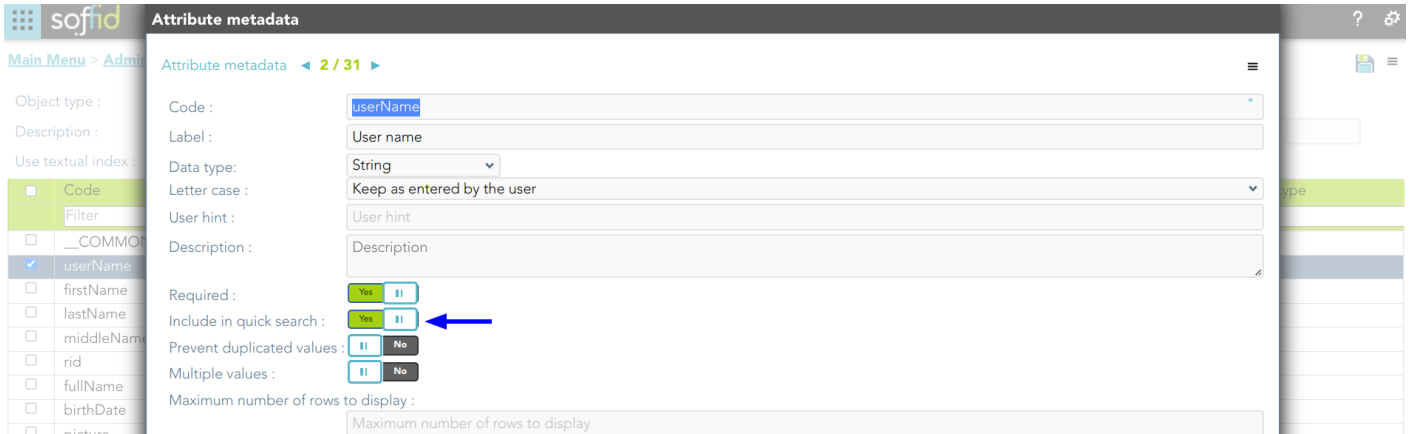
Notice, from the user interface, it is not interpreted as a Lucene expression.

Example

1. Enable the "Use textual index" on the User object and save the changes.



2. Check the attributes included in the quick search.



How does the user interface search work?

Once you have configured the textual index for a specific object, Soffid will apply it when you use Quick Search on this object.

Example 1

1. If you search for users using the text "frankin", then Soffid will display all the users whose userName, firstName, lastName, or middleName match, to some degree, with the typed text following the textual index rules.

frankin

<input type="checkbox"/>	▼ User name	↕ First name	↕ Last Name	↕ Primary group	↕ Enabled	↕ Manager
<input type="checkbox"/>	aretha	Aretha	Franklin	world	Yes	
<input type="checkbox"/>	frank	Frank	Sinatra	Music	Yes	
<input type="checkbox"/>	frankrudolph	Frank Rudolph	Olson	scientist	Yes	
<input type="checkbox"/>	franks	Frank	Sherwood	scientist	Yes	
<input type="checkbox"/>	rfranklin	Rosalind	Franklin	scientist	Yes	

Displayed rows: 5

2. If you include the attribute manager in the quick search:

soffid Attribute metadata

Main Menu > Administration > Resources > Users

Object type : Code : manager

Description : Label : Manager

Use textual index : Data type : User

User hint : User hint

Description : Description

Required : Yes No

Include in quick search : Yes No

Prevent duplicated values : Yes No

Multiple values : Yes No

Maximum number of rows to display :

3. And search for "frankin", then Soffid will display all the users whose userName, firstName, lastName, middleName, or manager match with the typed text following the textual index rules.

soffid ? ⚙️

Main Menu > Administration > Resources > Users

frankin

<input type="checkbox"/>	▼ User name	↕ First name	↕ Last Name	↕ Primary group	↕ Enabled	↕ Manager
<input type="checkbox"/>	aretha	Aretha	Franklin	world	Yes	
<input type="checkbox"/>	frank	Frank	Sinatra	Music	Yes	
<input type="checkbox"/>	frankrudolph	Frank Rudolph	Olson	scientist	Yes	
<input type="checkbox"/>	franks	Frank	Sherwood	scientist	Yes	
<input type="checkbox"/>	hlamarr	Hedy	Lamarr	scientist	Yes	franks
<input type="checkbox"/>	inewton	Isaac	Newton	scientist	Yes	frank
<input type="checkbox"/>	janis	Janis	Joplin	Music	Yes	frank
<input type="checkbox"/>	rfranklin	Rosalind	Franklin	scientist	Yes	

Displayed rows: 8

Example 2

1. If you search for users using the text "manager:frank" Soffid will display all users whose manager matches the text "frank".

soffid Search ?

Main Menu > Administration > Resources > Users

manager:frank Quick Basic Advanced

<input type="checkbox"/>	▼ User name	↕ Full name	↕ Primary group	↕ Enabled	↕ First name	↕ Last Name	↕ Manager
<input type="checkbox"/>	hlamarr	Hedy Lamarr	scientist	Yes	Hedy	Lamarr	franks
<input type="checkbox"/>	inewton	Isaac Newton	scientist	Yes	Isaac	Newton	frank
<input type="checkbox"/>	janis	Janis Joplin	Music	Yes	Janis	Joplin	frank
<input type="checkbox"/>	ntesla	Nikola Tesla	Support IT	Yes	Nikola	Tesla	frankrudolph

Displayed rows: 4

Notice the difference by searching "manager:frank?":

soffid Search ?

Main Menu > Administration > Resources > Users

manager:frank? Quick Basic Advanced

<input type="checkbox"/>	▼ User name	↕ Full name	↕ Primary group	↕ Enabled	↕ First name	↕ Last Name	↕ Manager
<input type="checkbox"/>	hlamarr	Hedy Lamarr	scientist	Yes	Hedy	Lamarr	franks
<input type="checkbox"/>	ntesla	Nikola Tesla	Support IT	Yes	Nikola	Tesla	frankrudolph

Displayed rows: 2

And by searching "manager:frank*":

soffid Search ?

Main Menu > Administration > Resources > Users

manager:frank* Quick Basic Advanced

<input type="checkbox"/>	▼ User name	↕ Full name	↕ Primary group	↕ Enabled	↕ First name	↕ Last Name	↕ Manager
<input type="checkbox"/>	hlamarr	Hedy Lamarr	scientist	Yes	Hedy	Lamarr	franks
<input type="checkbox"/>	inewton	Isaac Newton	scientist	Yes	Isaac	Newton	frank
<input type="checkbox"/>	janis	Janis Joplin	Music	Yes	Janis	Joplin	frank
<input type="checkbox"/>	ntesla	Nikola Tesla	Support IT	Yes	Nikola	Tesla	frankrudolph

Displayed rows: 4

And also by searching "manager:fr*":

soffid Search ?

Main Menu > Administration > Resources > Users

manager:fr* Quick Basic Advanced

<input type="checkbox"/>	▼ User name	↕ Full name	↕ Primary group	↕ Enabled	↕ First name	↕ Last Name	↕ Manager
<input type="checkbox"/>	etaylor	Elizabeth Taylor	Movie Stars	Yes	Elizabeth	Taylor	freddie
<input type="checkbox"/>	hlamarr	Hedy Lamarr	scientist	Yes	Hedy	Lamarr	franks
<input type="checkbox"/>	inewton	Isaac Newton	scientist	Yes	Isaac	Newton	frank
<input type="checkbox"/>	janis	Janis Joplin	Music	Yes	Janis	Joplin	frank
<input type="checkbox"/>	ntesla	Nikola Tesla	Support IT	Yes	Nikola	Tesla	frankrudolph

Displayed rows: 5

Example 3

1. If you search for users using the text "userName:frank*" Soffid will display all users whose user name matches the text "frank" followed by any other text.

soffid Search

Main Menu > Administration > Resources > Users

userName:frank*

<input type="checkbox"/>	User name	Full name	Primary group	Enabled	First name	Last Name	Manager
<input type="checkbox"/>	frank	Frank Sinatra	Music	Yes	Frank	Sinatra	
<input type="checkbox"/>	frankrudolph	Frank Rudolph Olson	scientist	Yes	Frank Rudolph	Olson	
<input type="checkbox"/>	franks	Frank Sherwood	scientist	Yes	Frank	Sherwood	

Displayed rows: 3

Notice the difference by searching the text "userName:frank?":

soffid Search

Main Menu > Administration > Resources > Users

userName:frank?

<input type="checkbox"/>	User name	Full name	Primary group	Enabled	First name	Last Name	Manager
<input type="checkbox"/>	frankrudolph	Frank Rudolph Olson	scientist	Yes	Frank Rudolph	Olson	
<input type="checkbox"/>	franks	Frank Sherwood	scientist	Yes	Frank	Sherwood	

Displayed rows: 2

Example 4

1. If you search for users using the text "frank" plus the wildcard "?", Soffid will display all users whose userName, firstName, lastName, middleName, or manager match the typed text as long as it has variation in the characters where the wildcard has been used.

soffid Search

Main Menu > Administration > Resources > Users

frank?

<input type="checkbox"/>	User name	First name	Last Name	Primary group	Enabled	Manager
<input type="checkbox"/>	aretha	Aretha	Franklin	world	Yes	
<input type="checkbox"/>	frankrudolph	Frank Rudolph	Olson	scientist	Yes	
<input type="checkbox"/>	franks	Frank	Sherwood	scientist	Yes	
<input type="checkbox"/>	hlamarr	Hedy	Lamarr	scientist	Yes	franks
<input type="checkbox"/>	ntesla	Nikola	Tesla	Support IT	Yes	frankrudolph
<input type="checkbox"/>	rfranklin	Rosalind	Franklin	scientist	Yes	

Displayed rows: 6

Notice the difference by searching "fran?"

soffid Search

Main Menu > Administration > Resources > Users

fran?

<input type="checkbox"/>	User name	First name	Last Name	Primary group	Enabled	Manager
<input type="checkbox"/>	aretha	Aretha	Franklin	world	Yes	
<input type="checkbox"/>	frank	Frank	Sinatra	Music	Yes	
<input type="checkbox"/>	frankrudolph	Frank Rudolph	Olson	scientist	Yes	
<input type="checkbox"/>	franks	Frank	Sherwood	scientist	Yes	
<input type="checkbox"/>	hlamarr	Hedy	Lamarr	scientist	Yes	franks
<input type="checkbox"/>	inewton	Isaac	Newton	scientist	Yes	frank
<input type="checkbox"/>	janis	Janis	Joplin	Music	Yes	frank
<input type="checkbox"/>	ntesla	Nikola	Tesla	Support IT	Yes	frankrudolph
<input type="checkbox"/>	rfranklin	Rosalind	Franklin	scientist	Yes	

Displayed rows: 9

How does the SCIM interface search work?

1. First of all, you must install the SCIM addon in Soffid.

For more information, you can visit [the How to install SCIM in Soffid? page](#).

2. Then, you can use any REST client to test and consume our SCIM REST web service.

For more information, you can visit [the Testing tool page](#).

3. Finally, you can start to use the SCIM interface search by using Lucene syntaxis

Lucene syntaxis

Please browse the standard specifications in this link:

<https://bookstack.soffid.com/books/soffid-3-reference-guide/page/lucene-query-parser-syntax>

Term Modifiers

Lucene supports modifying query terms to provide a wide range of search options. Here are the most common ones:

Wildcard Searches	To perform a single character wildcard search use the "?" symbol. To perform a multiple character wildcard search use the "*" symbol.
Regular Expression Searches	Lucene supports regular expression searches matching a pattern between forward slashes "/"

Fuzzy Searches	<p>To do a fuzzy search use the tilde, "~", symbol at the end of a Single word Term</p> <p><u>Soffid Console <= 3.4 version</u></p> <p>~0.8: stricter search</p> <p>~0.1: more lax search</p> <p><u>Soffid Console > 3.4 version</u></p> <p>An additional (optional) parameter can specify the maximum number of edits allowed. The value is between 0 and 2.</p>
Range Searches	<p>Range Queries allow one to match documents whose field(s) values are between the lower and upper bound specified by the Range Query</p>
Boosting a Term	<p>To boost a term use the caret, "^", symbol with a boost factor (a number) at the end of the term you are searching. The higher the boost factor, the more relevant the term will be.</p>

Boolean Operators

OR	<p>The OR operator links two terms and finds a matching document if either of the terms exist in a document. This is equivalent to a union using sets</p>
AND	<p>The AND operator matches documents where both terms exist anywhere in the text of a single document. This is equivalent to an intersection using sets.</p>
+	<p>The "+" or required operator requires that the term after the "+" symbol exist somewhere in a the field of a single document.</p>
NOT	<p>The NOT operator excludes documents that contain the term after NOT. This is equivalent to a difference using sets.</p>
-	<p>The "-" or prohibit operator excludes documents that contain the term after the "-" symbol.</p>

Escaping Special Characters

Lucene supports escaping special characters that are part of the query syntax.

The current list of special characters are + - && || ! () { } [] ^ " ~ * ? : \ /

Examples

Example 1

1. Use the wildcard search

1.1.*

Request

```
GET http://<domain>/webservice/scim2/v1/User?textFilter=fran*
```

Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 4,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Franklin",
      "createdByUser": "ActiveDirectory",
      "fullName": "Rosalind Franklin",
      "active": true,
      "userName": "rfranklin",
      "mailAlias": "",
      "firstName": "Rosalind",
      "createdDate": "2023-08-08 14:26:14",
      "multiSession": true,
      "meta": {
        "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2862",
        "links": {
          "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'rfranklin'+and+enabled+eq+true",
          "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'rfranklin'+and+disabled+eq+false",
          "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'rfranklin'",
          "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'rfranklin'",
          "effectiveGrants": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2862/effectiveGrants"
        }
      }
    }
  ]
}
```

```
    },
    "resourceType": "User"
  },
  "modifiedByUser": "ActiveDirectory",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.User"
  ],
  "modifiedDate": "2023-08-08 14:26:14",
  "attributes": {},
  "id": 2862,
  "userType": "I",
  "primaryGroupDescription": "scientist",
  "primaryGroup": "scientist"
},
{
  "lastName": "Franklin",
  "createdByUser": "ActiveDirectory",
  "fullName": "Aretha Franklin",
  "active": true,
  "userName": "aretha",
  "mailAlias": "",
  "firstName": "Aretha",
  "createdDate": "2023-09-06 13:12:54",
  "multiSession": true,
  "meta": {
    "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276397",
    "links": {
      "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'aretha'+and+enabled+eq+true",
      "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'aretha'+and+disabled+eq+false",
      "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'aretha'",
      "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'aretha'",
      "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276397/effectiveGrants"
```

```
    },
    "resourceType": "User"
  },
  "modifiedByUser": "ActiveDirectory",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.User"
  ],
  "modifiedDate": "2023-09-06 13:12:54",
  "attributes": {},
  "id": 276397,
  "userType": "I",
  "primaryGroupDescription": "World",
  "primaryGroup": "world"
},
{
  "lastName": "Sinatra",
  "createdByUser": "ActiveDirectory",
  "fullName": "Frank Sinatra",
  "active": true,
  "userName": "frank",
  "mailAlias": "",
  "firstName": "Frank",
  "createdDate": "2023-09-06 13:12:54",
  "multiSession": true,
  "meta": {
    "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435",
    "links": {
      "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'frank'+and+enabled+eq+true",
      "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'frank'+and+disabled+eq+false",
      "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'frank'",
      "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'frank'",
      "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435/effectiveGrants"
```

```
    },
    "resourceType": "User"
  },
  "modifiedByUser": "ActiveDirectory",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.User"
  ],
  "modifiedDate": "2023-09-06 13:12:55",
  "attributes": {},
  "id": 276435,
  "userType": "I",
  "primaryGroupDescription": "Music",
  "primaryGroup": "Music"
},
{
  "lastName": "Sherwood",
  "createdByUser": "pgarcia",
  "fullName": "Frank Sherwood",
  "active": true,
  "userName": "franks",
  "mailAlias": "",
  "firstName": "Frank",
  "createdDate": "2023-10-05 15:32:40",
  "multiSession": false,
  "meta": {
    "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644",
    "links": {
      "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'franks'+and+enabled+eq+true",
      "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'franks'+and+disabled+eq+false",
      "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'franks'",
      "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'franks'",
      "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644/effectiveGrants"
```

```
    },
    "resourceType": "User"
  },
  "modifiedByUser": "pgarcia",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.User"
  ],
  "modifiedDate": "2023-10-05 15:32:40",
  "attributes": {},
  "id": 432644,
  "userType": "I",
  "primaryGroupDescription": "scientist",
  "primaryGroup": "scientist"
}
]
}
```

1.2. ?

Request

```
http://<domain>/webservice/scim2/v1/User?textFilter=fran?
```

Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 2,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Sinatra",
      "createdByUser": "ActiveDirectory",
      "fullName": "Frank Sinatra",
      "active": true,
      "userName": "frank",
      "mailAlias": "",
      "firstName": "Frank",
      "createdDate": "2023-09-06 13:12:54",
```

```
"multiSession": true,
"meta": {
  "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435",
  "links": {
    "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'frank'+and+enabled+
eq+true",
    "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'frank'+and+disabled+eq+fal
se",
    "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+e
q+'frank'",
    "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'frank'",
    "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435/effectiveGrants"
  },
  "resourceType": "User"
},
"modifiedByUser": "ActiveDirectory",
"schemas": [
  "urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2023-09-06 13:12:55",
"attributes": {},
"id": 276435,
"userType": "I",
"primaryGroupDescription": "Music",
"primaryGroup": "Music"
},
{
  "lastName": "Sherwood",
  "createdByUser": "pgarcia",
  "fullName": "Frank Sherwood",
  "active": true,
  "userName": "franks",
  "mailAlias": "",
  "firstName": "Frank",
  "createdDate": "2023-10-05 15:32:40",
```

```

    "multiSession": false,
    "meta": {
      "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644",
      "links": {
        "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'franks'+and+enabled
+eq+true",
        "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'franks'+and+disabled+eq+f
alse",
        "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+e
q+'franks'",
        "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'franks'",
        "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644/effectiveGrants"
      },
      "resourceType": "User"
    },
    "modifiedByUser": "pgarcia",
    "schemas": [
      "urn:soffid:com.soffid.iam.api.User"
    ],
    "modifiedDate": "2023-10-05 15:32:40",
    "attributes": {},
    "id": 432644,
    "userType": "I",
    "primaryGroupDescription": "scientist",
    "primaryGroup": "scientist"
  }
]
}

```

Example 2

1. Use the wildcard search in a specific attribute

Request

```
GET http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=username:frank
```

Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 1,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Sinatra",
      "profileServer": "Void host",
      "createdByUser": "admin",
      "fullName": "Frankaaa Sinatra",
      "active": true,
      "userName": "frank",
      "mailAlias": "",
      "mailServer": "Void host",
      "firstName": "Frankaaa",
      "emailAddress": "pgarcia@soffid.com",
      "mailDomain": "soffid.com",
      "createdDate": "2023-06-02 07:41:47",
      "multiSession": false,
      "meta": {
        "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/3910",
        "links": {
          "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'frank'+and+enabled+eq+true",
          "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'frank'+and+disabled+eq+false",
          "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'frank'",
          "effectiveGrants": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/3910/effectiveGrants"
        },
        "resourceType": "User"
      },
      "modifiedByUser": "admin",
```

```
"schemas": [
  "urn:soffid:com.soffid.iam.api.User"
```

```
],
```

```
"modifiedDate": "2023-06-02 07:41:47",
```

```
"attributes": {
```

```
  "picture":
```

```
"/9j/4AAQSkZJRgABAQAAAQABAAD/2wCEAAoHCBYWFRgVFRYYGRgaGhkYGHgaGBoYGHoYHBkaGhgZGhgCIS4IHB4
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```
  },  
  "id": 3910,  
  "userType": "I",  
  "homeServer": "Void host",  
  "shortName": "pgarcia",  
  "primaryGroupDescription": "Music",  
  "primaryGroup": "Music"
```

```
}
```

```
]
```

```
}
```

Example 3

1. Use the Fuzzy Searches

Request

```
GET http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=fran~
```

Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 2,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Sinatra",
      "createdByUser": "ActiveDirectory",
      "fullName": "Frank Sinatra",
      "active": true,
      "userName": "frank",
      "mailAlias": "",
      "firstName": "Frank",
      "createdDate": "2023-09-06 13:12:54",
      "multiSession": true,
      "meta": {
        "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435",
        "links": {
          "roleAccounts":
            "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'frank'+and+enabled+eq+true",
          "groupUsers":
            "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'frank'+and+disabled+eq+false",
          "accounts":
            "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'frank'",
          "issues":
            "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'frank'",
          "effectiveGrants":
```

```
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435/effectiveGrants"
  },
  "resourceType": "User"
},
"modifiedByUser": "ActiveDirectory",
"schemas": [
  "urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2023-09-06 13:12:55",
"attributes": {},
"id": 276435,
"userType": "I",
"primaryGroupDescription": "Music",
"primaryGroup": "Music"
},
{
  "lastName": "Sherwood",
  "createdByUser": "pgarcia",
  "fullName": "Frank Sherwood",
  "active": true,
  "userName": "franks",
  "mailAlias": "",
  "firstName": "Frank",
  "createdDate": "2023-10-05 15:32:40",
  "multiSession": false,
  "meta": {
    "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644",
    "links": {
      "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'franks'+and+enabled+eq+true",
      "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'franks'+and+disabled+eq+false",
      "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'franks'",
      "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'franks'",
      "effectiveGrants":
```

```
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644/effectiveGrants"
  },
  "resourceType": "User"
},
"modifiedByUser": "pgarcia",
"schemas": [
  "urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2023-10-05 15:32:40",
"attributes": {},
"id": 432644,
"userType": "I",
"primaryGroupDescription": "scientist",
"primaryGroup": "scientist"
}
]
}
```

2. Use the Fuzzy Searches: specify the maximum number of edits allowed

Request

```
GET http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=frankl~2
```

Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 4,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Franklin",
      "createdByUser": "ActiveDirectory",
      "fullName": "Rosalind Franklin",
      "active": true,
      "userName": "rfranklin",
      "mailAlias": "",
      "firstName": "Rosalind",

```

```
"createdDate": "2023-08-08 14:26:14",
"multiSession": true,
"meta": {
  "location": "http://soffid.35x.lab:8089/soffid/websevice/scim2/v1/User/2862",
  "links": {
    "roleAccounts":
"http://soffid.35x.lab:8089/soffid/websevice/scim2/v1/RoleAccount?filter=userCode+eq+'rfranklin'+and+enable
d+eq+true",
    "groupUsers":
"http://soffid.35x.lab:8089/soffid/websevice/scim2/v1/GroupUser?filter=user+eq+'rfranklin'+and+disabled+eq
+false",
    "accounts":
"http://soffid.35x.lab:8089/soffid/websevice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+e
q+'rfranklin'",
    "issues":
"http://soffid.35x.lab:8089/soffid/websevice/scim2/v1/Issue?filter=user.userName+eq+'rfranklin'",
    "effectiveGrants": "http://soffid.35x.lab:8089/soffid/websevice/scim2/v1/User/2862/effectiveGrants"
  },
  "resourceType": "User"
},
"modifiedByUser": "ActiveDirectory",
"schemas": [
  "urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2023-08-08 14:26:14",
"attributes": {},
"id": 2862,
"userType": "I",
"primaryGroupDescription": "scientist",
"primaryGroup": "scientist"
},
{
  "lastName": "Franklin",
  "createdByUser": "ActiveDirectory",
  "fullName": "Aretha Franklin",
  "active": true,
  "userName": "aretha",
  "mailAlias": "",
  "firstName": "Aretha",
  "createdDate": "2023-09-06 13:12:54",
```

```
"multiSession": true,
"meta": {
  "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276397",
  "links": {
    "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'aretha'+and+enabled
+eq+true",
    "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'aretha'+and+disabled+eq+f
alse",
    "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+e
q+'aretha'",
    "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'aretha'",
    "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276397/effectiveGrants"
  },
  "resourceType": "User"
},
"modifiedByUser": "ActiveDirectory",
"schemas": [
  "urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2023-09-06 13:12:54",
"attributes": {},
"id": 276397,
"userType": "I",
"primaryGroupDescription": "World",
"primaryGroup": "world"
},
{
  "lastName": "Sinatra",
  "createdByUser": "ActiveDirectory",
  "fullName": "Frank Sinatra",
  "active": true,
  "userName": "frank",
  "mailAlias": "",
  "firstName": "Frank",
  "createdDate": "2023-09-06 13:12:54",
```

```
"multiSession": true,
"meta": {
  "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435",
  "links": {
    "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'frank'+and+enabled+
eq+true",
    "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'frank'+and+disabled+eq+fal
se",
    "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+e
q+'frank'",
    "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'frank'",
    "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435/effectiveGrants"
  },
  "resourceType": "User"
},
"modifiedByUser": "ActiveDirectory",
"schemas": [
  "urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2023-09-06 13:12:55",
"attributes": {},
"id": 276435,
"userType": "I",
"primaryGroupDescription": "Music",
"primaryGroup": "Music"
},
{
  "lastName": "Sherwood",
  "createdByUser": "pgarcia",
  "fullName": "Frank Sherwood",
  "active": true,
  "userName": "franks",
  "mailAlias": "",
  "firstName": "Frank",
  "createdDate": "2023-10-05 15:32:40",
```

```

"multiSession": false,
"meta": {
  "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644",
  "links": {
    "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'franks'+and+enabled
+eq+true",
    "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'franks'+and+disabled+eq+f
alse",
    "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+e
q+'franks'",
    "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'franks'",
    "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644/effectiveGrants"
  },
  "resourceType": "User"
},
"modifiedByUser": "pgarcia",
"schemas": [
  "urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2023-10-05 15:32:40",
"attributes": {},
"id": 432644,
"userType": "I",
"primaryGroupDescription": "scientist",
"primaryGroup": "scientist"
}
]
}

```

Example 4

1. Use the boolean operator AND

Request

```
GET http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=fran~ AND Sinatra
```

Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 1,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Sinatra",
      "profileServer": "Void host",
      "createdByUser": "admin",
      "fullName": "Frankaaa Sinatra",
      "active": true,
      "userName": "frank",
      "mailAlias": "",
      "mailServer": "Void host",
      "firstName": "Frankaaa",
      "emailAddress": "pgarcia@soffid.com",
      "mailDomain": "soffid.com",
      "createdDate": "2023-06-02 07:41:47",
      "multiSession": false,
      "meta": {
        "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/3910",
        "links": {
          "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'frank'+and+enabled+eq+true",
          "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'frank'+and+disabled+eq+false",
          "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'frank'",
          "effectiveGrants": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/3910/effectiveGrants"
        },
        "resourceType": "User"
      },
      "modifiedByUser": "admin",
    }
  ]
}
```


Ne+Q8Hh6yEAG/jrL6i1S3bbTugYXaXQ1kVnDLZbm2rE6nyGhHpM9sZiuJ52mtp6lfrFKtJgd1tTPLqFT65SN94HsuGfsA
nu+Ufhgt75QfLjuz+1RvxtHYapAj4/C02a5WxBBvoDod17eMqcZsNajEq+W9iyIqWjGgOp0PfNTXoh1uN8rv4fnp++c
BcFhkw6ZFYm9yxvqzHS5t4W8pG/gUe5YAchbcJMTBrvzEwopiBUrg8h/4IZtB7dkbyQB56TQ4phaZjFDNUQd9/Td8bQI
229ji9RKiXznsuP5V7Kn0EvcEgzKo1ChU89Xb/avrCVqjVLKbE72tckHSwHG5Mk7OweRdd9txNyL6knmx4+AECTOVH
GNlGcTEvEvHgQODTs04iNjgKRBOsfnjWeBHcRto52gs8DUARwjVMdA4CLEvEjgLmiXnRsB0VYwQloDhDI0AIRTAxP0o
7PNqWJUaLenUI4Am6E+eYeYmDw9UBh37/Oe5VqSujl6hkYZWU6gg8JgdrdBEO5qwxGSiNSGQu4/IQgjOeAvr4wM1s
XH9VVKndfT4zd0cfmE80xrlxF5ncKb2DEFhY21K6E7t3OXuwt07Ij8PIA2Ard3nO6y5sYGIVBj0S8Cg6Z4oCnkHEzE7Io5
6qjvvL/ppibsexGLmM6G4G5LnU7v1gej7Jp2pnw/f78JGXErlHZOnZ5iQ8ahDHxgHwb8L/v8AZkhwDvEqkdI13jjIDFBh
A5113QLsRvk1jIwJ4wkjG4nWU+GrMa6sqlramys1hY6kKCQOEtMYmhj/fKO6LJ2qrfc/xE/IA8lju2dxIA0VbWPiV90b9
DrrraTTFtOgdJssIREgCyx6xWEEzQFcbwGNZ4wtAdeNaNBjjAG8FDNBWgaVIVYNBCCAtowwgEaywEnRLR0DgI4CII4
QHARwWcsKggKizyb6SuknWw1CEdWhsbnss/E2Gr24DcOPdrun3SL+HpGjTI611Nze2SnujJ4E7v+bTxqtUN81wt9c7
DtH7icB+7wJWz3GQ7rF2IsLC4VLI3C418pjw1TlwPCQcC+dKiBizLaqtxY2HZf4FT5Q9B8ynmNfKbV8AAV8wUjWWO0t
opRpFjvl0HMzObBq2S54CUO2tqmq1+A3DugQ8XiC7Mx1JMteiWOCVCjGwOovzmezzkuzALcnaB7LhMcpbRh6ynx/
SJDV6tFeq17HihZVPe268pNh7EZSHrs1j7oNvWbzB00RQEUKOAAgOw1AhbuLE7xy7ryn2jQek3Wjkd3uo3gfaHdL6
0jJFKDraBFwe0VdbqZ1epbUyi21hjSb+loeyT9YnAX94Dh3jvklMVnTN3XgLjDmU21PLvgMBtE4cMhpliTc62bcBfLa5Xv
GmshPisis53LZv7h+svMLthHUHQ8bwOo9JUb3G13ZSGv929s3leSqe26De/bhqDv46jSGQYeotmRCDvuo1MhbU6NK
wLjdWt97dqAQfbHc3kRAnjF0yLiolueYTqejRjZXRjyDAn0BmAqsyOUcEMBmsLtdQdXS+rqOK+2ttcwgXRDe9gGs5INI
dRufMpF1ud+4ccu6B6SwgnWYXCbfq4dsrI3UvlyN1ajTW1xZyBw58LTzB02ITrpnpsDb2gGBKkncplgPYRhEKyxloAwj
0JlnZYAmg80M6wVoGIURyiDVo9WgEUzmiRYDZ1o4LHBYAwIRRHBI9afpA5FId0g22mFplmlLkHlv8A9jyUSDtXpQpB
shFRI35TdR4kanyE8I25t56zI3bUm4JF2HIII7IOV9YAdtY96jmo7asbl21uearvbkCQAOHOVYJQoIw/nqaj46R5ze0EA7
9Q3Y9/a/SMrFTrUqM55LrbuudPSBKwGOenVR3emQDZ17PsEWYaC24mWO1MAcPUsuqPc025rxUnmNPKxmeDjuWm
W8ST8BN30bdMVhuoqqQUsNfaAt2HUnlqPLvgR9m1s1F1XeFOg4ixmeqLIAvLV6L4StkFVT7LcGXn+o4SHj6gZrj0gRK
KK28i3jNVsjcOhzM6X7yJjqyEbxLXZWYkdXXPc8V9lh+vH1gennFUKIO6upAtexBt6RKGOaIATrVuObCZzBdEcPa+erry
cDcByGssE6MYNd6FiL+3UbXfwB8IFliNoU1FzUQD74/WQ6rmqv1Op0IY6KdeHP5QB2bhUYFKPNPwsoNvM6k+Mt6Lh
BfjAr8ArgIKo9rnuInbSpBFsDpu/WO2IWLLpvGt5SYmpUqsiXsSQo8WNh5m8CJjaud0QA5ew5W2joHAbXkCjXdSp60K/
VFKpSmST1be2VVrjsaL7V7a6jjLPplow2ITLotHEVKZ/7bpTqW/C7yp2jh7L1V7t1qlydNVZqRPhYo3/qXgEo4qrTdHd2K
0zldCMrl/DOOIPBhoZ6XsnaiuoN73nmW0axavinDG1IBRFVWBdaZpsOKntaeYtjOysU9FkKezUynIWGZMwzDxUjc3rY7
w3nSHYi10upKPCmjrvVx7LDv+YnntXOjMjjqyHGew0pVW0TEU/9j9zLuveeobLrFls2t5IOm2FAIrbC2VWWon/Uot/mKO
ZA7Y+6YGF7dWUANYgQ3KrUHAbDk7zTcdpD7p3RNIY16Lq9JaRQDsgkU6zpfTdbOym6kHiNN8FVXQqXuAEps/NG7
WExPipshPlyLinS4esjFHZg6lcpp11stS3DDWwax/KB6xhMStRfQjqrC4594I4EboRhMj0Hx62egHzrq9Jjo2XQOjD7amxP
3r8Zq2eAhMS8S8SBzmBzwjiDtA0Aj1M4COtAVWhVMCBCKIBRHARiiRNq7XTDrdu05BKotydz9hqB3wD7R2hToJnqNb
kPeY8gPz3Cefbb6Q1MV2EjCfyp1aYc/eBBznuB8oLaWjq1nNR1qDk3ULUVV5atoB4CQEeqVGPZGGxAPuZfVJ/Llw8rwK
DGk7hUL2YDlyZKwN9ymx1vyPIK50ZfdWn3sbufz+E021aYrLICZKo0FOr7R5CnVNmBvuV9OR4SrOAFuxg3J+1UZiPS
yiBRsyX1Lufwj8zHpm9ykB3kFj6tjGlp1UOuSn3Bk09CZFc39qrfuAY/OwgPdXpT0q92YD4LJmwdonD1lfrMynsuNTdTvI
7xv8u+VI6Y4OfML+s4svBP7mMD1fauAXE0Sglv7dN+Aa2mv2Tx9eE87VGRzTcFWU5WB3gzRdCtsAr/AA7XBXVNd6
8VvzHyPdLHpPsXrl62mPrUH/uKpDP8w4engFDiMASugvpKhsM6nshr915ouju0Vaytv3WPxmjQICCANf3+/CBisM2ONS
ggW3bv1Es8NsrHsczs4B3gkCbZKigX+EmjXUiBQbP2a6bxb6n1lg1Mrv3yfUrASqx+LAHfuA4k8LCBWba2itjc7nTlxJ5
DmZA6C4tsTjKebgxcjEBK/HLKfpc5Y6nQbhy5zQ/Q3hO3WrHggovmzcH4CAP6SFHW4pbah8NVH9aGkf9qiE2bsF6/
wBY3YLomZSAe2qKGPgSin+kS8x2CTEYypiasUKU0A91shJzeFybeF5Z136pVYaWdAfBjl+ZEDzTpXQqUi6OEyuVLMi
hCxW5UtbedTIH8cGxKuolRVRFB3gKoFj33BM3PTvCipTzDhr+v5TzzDUI7qote/tW1sPnA9d2HUBUGQemastPrE1ZCH

A+0FN3XzXMPOSdh0cqAdwndKCwo06i7lpcDmV7Vv00Dzg0kVsl70xZM3PC4jWm39Dnfwgu0wdH9tI3X/xOgNhod
5en63hCiEZfcQ5Cf8Ayuj7VNV6HlgqrsCKje2pV3H+rQcUq/4kZWgM2btIJUTEU1C9pespjQB7WLIPsuuYW4G3dPUetD
AMpupAIPMEXE8uxRp1M9RRIKXSqqjUoHHV107xZcwm56J4o1MMoNsyMyG27TVSO4gi0C2Dzs84rGEQH5oy8WMtA
0itHgwSiFUQHrDoINU4zGdleK3WXo4c3QGzuc/a5gdWpIXzF/DeFztjpmIO6Uu2/wBoK7IvgUUHjMjjHaqLujltSr1alln8Y
RYF6ii1+qB/mOLuPMYRQqZtFBb/s1s/wD8Fa5bwgREwrUzmFDEp/NScOO7ULb4yQtRa182WsRvV16rEabyrrcOd+hj
PdEZFQK9xIL5M6B8PURt5zpqmnd6wjjUc5Hb/E02z0yQt6iWuAHhtEAZhqQdYA8QV6tTmaphnOVs4+sovpoDztqOB
A3XIXicJTRnTE1atwQaZUB1dCLhrsRv/MS4p4hAGqZPqqnYxFib0YnR0HAX1XkbjB1kdCEV1z01vSqEArUwzm7C5BTy
dsb9zCBncSuEX2RWfvZkXX+mV75T7FEkcNWf8psHbEnQYnDaaAhqY9Oxf4SsxeHrn28ZT8qxPwUAQKEdYNYzF6Lf7
o1jV4sB/Uo+XhCYvCoNTXVj3Bm+N5DyJ9o+SvDU69VHV1cZIII7SnX9P1nqGx9pJWpo67y00L+y3vCeTOE4FvSXHR
naYo1At+w5AJ3Wf3Tv47vTIA1u2+jpZzXw1g+903BjxZTuDcxuO/TjQrtipSbl6spG9Wfj6H5zbUsRcSPjXUizqGHJgGHx
gRMN0ipMmrWPIx9Hb6D3x6yH/8AZqbGwo0/wLNBszohhaq2enlb7SGx9LW9RARK/SBdynOeAGvryjMCjM2dzdcADc
o7uZ75dYno3h6JP1yIBpeoMgNt4DAENbQHdaRa+TIWoulWxck03R+0QSQ2U3zEA2HceUCsw1Km1Zmex6u1g1rDj
mN+QmgwLtUzCklkKs9ygdTvAG8i3Ezz7Z2MV8Qrkgrmtl4HS4J5ier7LqLYeEBINcgHYJUb8upHlxHhrlfSHFKcJwDWB
C0y6nvWzD4iX7rxEwfTqkilSzMqVDcqpsrOpv6nTTja8Cg2p0g69FppfdzdyEi7FT64abpV0WBHYBuxsANSeQ75othbjc
1O2xVtDIWxIHedwgegbLY2F5Kx9MMpHAjXzkbd0coGpPiZIfvbwPLsVhVpv1Tajrh3v/ANGsSabX5JUvVk0hKC5Abew
Gcfz64asfU03mk6V0Q532zjqSeRftU2Pg6IP6zM2WLHNuNTK/eDUU0qg7stVEPnAFg665ErFRmpDqcQm7rKT9gP4i+
U94Uy96A1sISpSvcG4/qT2GH3ILfglFtHDhLOvsYijUvbXtg3YfiVjJ2VieorLWJy5KjUqwIj3lijEDXUZlvtxgemMIwiSaRV1
V0IZWAI1BB3WliMkCPaDtjBgvOBoEWFd1RS7sFUbyTYTp0DC9lekj1wUpgrR5nKvWcLI3ITL/KA/eAZQI/86eeKcHw7C
hR6Tp0Agruod7aC9PGo1rm2qtra54+sl6Z2am7KtVWVqfWU6ahxbrS677k6Xup011iToBqdRsz5Ulc/wCdhXvapze
mTx423jeMwjKioEUhyaOb6up/4mHqb8j21tfXTxHI9OgdUZyzOFXrkU9ft9yvSptOoGhuLE27mG6MwMjotLP2HzNh6j
WBR/foudwBNvPKdxnToFfhKN1KnCO7U2NNyr1PbXmoBANiDbviVqCa5sFWHi9QfNPGLOgVmKRPdwr373qH4BRKm
op4Ubd1nPznToAWY/YH4W/WNKnfIsNxGtjOnQNv0Y2pnQKx7SaG/EcD+veJpKeEaoQBOOnQNjs3YoWxI1/f6SZtnGU8j
h3rsAci3VLhc77kQHvNok6B5J2saH+ISun8TUqVC6JMtMPmCvncZb3IAABOp7xM2+LZ83ZA7CltWIZlv23Gt3OY2Jt
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A51/pr0x+KLOgBwo6xBTJ0FSoi62s1VCafkXQjzkps9UU61NVZ3BpVUYLINSmAwJDGxLIN3MGdOgazoNtEWfDFSjKSw
pNe6X9oITqUvrY6i54Wmqczp0ATiAnToH//2Q=="

```
  },  
  "id": 3910,  
  "userType": "I",  
  "homeServer": "Void host",  
  "shortName": "pgarcia",  
  "primaryGroupDescription": "Music",  
  "primaryGroup": "Music"
```

```
}
```

```
]
```

```
}
```

2. Use the boolean operator +

Request

```
GET http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=fran~ +bacall
```

Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 3,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Bacall",
      "createdByUser": "ActiveDirectory",
      "fullName": "Lauren Bacall",
      "active": true,
      "userName": "lbacall",
      "mailAlias": "",
      "firstName": "Lauren",
      "createdDate": "2023-08-08 14:26:14",
      "multiSession": true,
      "meta": {
        "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2844",
        "links": {
          "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'lbacall'+and+enabled+eq+true",
          "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'lbacall'+and+disabled+eq+false",
          "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'lbacall'",
          "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'lbacall'",
          "effectiveGrants": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2844/effectiveGrants"
        }
      },
      "resourceType": "User"
    }
  ]
}
```

```
    },
    "modifiedByUser": "pgarcia",
    "schemas": [
      "urn:soffid:com.soffid.iam.api.User"
    ],
    "modifiedDate": "2023-08-22 17:34:07",
    "attributes": {},
    "id": 2844,
    "userType": "I",
    "primaryGroupDescription": "Music",
    "primaryGroup": "Music"
  },
  {
    "lastName": "Sinatra",
    "createdByUser": "ActiveDirectory",
    "fullName": "Frank Sinatra",
    "active": true,
    "userName": "frank",
    "mailAlias": "",
    "firstName": "Frank",
    "createdDate": "2023-09-06 13:12:54",
    "multiSession": true,
    "meta": {
      "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435",
      "links": {
        "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'frank'+and+enabled+eq+true",
        "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'frank'+and+disabled+eq+false",
        "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'frank'",
        "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'frank'",
        "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435/effectiveGrants"
      }
    },
    "resourceType": "User"
  }
}
```

```
    },
    "modifiedByUser": "ActiveDirectory",
    "schemas": [
      "urn:soffid:com.soffid.iam.api.User"
    ],
    "modifiedDate": "2023-09-06 13:12:55",
    "attributes": {},
    "id": 276435,
    "userType": "I",
    "primaryGroupDescription": "Music",
    "primaryGroup": "Music"
  },
  {
    "lastName": "Sherwood",
    "createdByUser": "pgarcia",
    "fullName": "Frank Sherwood",
    "active": true,
    "userName": "franks",
    "mailAlias": "",
    "firstName": "Frank",
    "createdDate": "2023-10-05 15:32:40",
    "multiSession": false,
    "meta": {
      "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644",
      "links": {
        "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'franks'+and+enabled+eq+true",
        "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'franks'+and+disabled+eq+false",
        "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'franks'",
        "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'franks'",
        "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/432644/effectiveGrants"
      },
      "resourceType": "User"
    }
  }
}
```

```
    },
    "modifiedByUser": "pgarcia",
    "schemas": [
      "urn:soffid:com.soffid.iam.api.User"
    ],
    "modifiedDate": "2023-10-05 15:32:40",
    "attributes": {},
    "id": 432644,
    "userType": "I",
    "primaryGroupDescription": "scientist",
    "primaryGroup": "scientist"
  }
]
}
```

3. Use the boolean operator -

Request

```
GET http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=fran~ -Sherwood
```

Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 1,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Sinatra",
      "createdByUser": "ActiveDirectory",
      "fullName": "Frank Sinatra",
      "active": true,
      "userName": "frank",
      "mailAlias": "",
      "firstName": "Frank",
      "createdDate": "2023-09-06 13:12:54",
      "multiSession": true,
      "meta": {
```

```

    "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435",
    "links": {
      "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'frank'+and+enabled+
eq+true",
      "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'frank'+and+disabled+eq+fal
se",
      "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+e
q+'frank'",
      "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'frank'",
      "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276435/effectiveGrants"
    },
    "resourceType": "User"
  },
  "modifiedByUser": "ActiveDirectory",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.User"
  ],
  "modifiedDate": "2023-09-06 13:12:55",
  "attributes": {},
  "id": 276435,
  "userType": "I",
  "primaryGroupDescription": "Music",
  "primaryGroup": "Music"
}
]
}

```

Example 5

1. U

Request

GET

http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User?textFilter=(firstName:aretha OR firstName:Rosalind)
AND lastName:Franklin AND birthDate:1979-01-01

Response 200 OK

```
{
  "schemas": [
    "urn:ietf:params:scim:api:messages:2.0:ListResponse"
  ],
  "totalResults": 2,
  "startIndex": 1,
  "Resources": [
    {
      "lastName": "Franklin",
      "createdByUser": "ActiveDirectory",
      "fullName": "Aretha Franklin",
      "active": true,
      "userName": "aretha",
      "mailAlias": "",
      "firstName": "Aretha",
      "createdDate": "2023-09-06 13:12:54",
      "multiSession": true,
      "meta": {
        "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276397",
        "links": {
          "roleAccounts":
            "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'aretha'+and+enabled+eq+true",
          "groupUsers":
            "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'aretha'+and+disabled+eq+false",
          "accounts":
            "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'aretha'",
          "issues":
            "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'aretha'",
          "effectiveGrants":
            "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/276397/effectiveGrants"
        }
      },
      "resourceType": "User"
    },
    {
      "modifiedByUser": "pgarcia",
      "schemas": [
        "urn:soffid:com:soffid:iam:api:User"
      ]
    }
  ]
}
```

```
  ],
  "modifiedDate": "2023-10-05 16:02:40",
  "attributes": {
    "birthDate": "1979-01-01 00:00:00"
  },
  "id": 276397,
  "userType": "I",
  "primaryGroupDescription": "World",
  "primaryGroup": "world"
},
{
  "lastName": "Franklin",
  "createdByUser": "ActiveDirectory",
  "fullName": "Rosalind Franklin",
  "active": true,
  "userName": "rfranklin",
  "mailAlias": "",
  "firstName": "Rosalind",
  "createdDate": "2023-08-08 14:26:14",
  "multiSession": true,
  "meta": {
    "location": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2862",
    "links": {
      "roleAccounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/RoleAccount?filter=userCode+eq+'rfranklin'+and+enabled+eq+true",
      "groupUsers":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/GroupUser?filter=user+eq+'rfranklin'+and+disabled+eq+false",
      "accounts":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Account?filter=type+eq+U+and+users.user.userName+eq+'rfranklin'",
      "issues":
"http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/Issue?filter=user.userName+eq+'rfranklin'",
      "effectiveGrants": "http://soffid.35x.lab:8089/soffid/webservice/scim2/v1/User/2862/effectiveGrants"
    },
    "resourceType": "User"
  },
  "modifiedByUser": "pgarcia",
  "schemas": [
    "urn:soffid:com.soffid.iam.api.User"
```

```
],
  "modifiedDate": "2023-10-05 16:03:02",
  "attributes": {
    "birthDate": "1979-01-01 00:00:00"
  },
  "id": 2862,
  "userType": "I",
  "primaryGroupDescription": "scientist",
  "primaryGroup": "scientist"
}
]
}
```

Revision #37

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Updated 9 October 2023 13:34:40