
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.

soffid

Search

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Object type : com.soffid.iam.api.User

Description : Builtin user object

Use textual index : Yes III

| Code | Label | Data type | Built-in type |
|----------------------|-------------------|-----------|---------------|
| Filter | Filter | Filter | Filter |
| __COMMONATTRIBUTES__ | Common attributes | Separator | Yes |
| userName | User name | String | Yes |
| firstName | First name | String | Yes |
| lastName | Last Name | String | Yes |
| middleName | Middle name | String | Yes |

2. Check the attributes included in the quick search.

soffid

Attribute metadata

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Object type : com.soffid.iam.api.User

Description : Builtin user object

Use textual index : Yes III

Code : userName

Label : User name

Data type : String

Letter case : Keep as entered by the user

User hint : User hint

Description : Description

Required : Yes II

Include in quick search : Yes II

Prevent duplicated values : II No

Multiple values : II No

Maximum number of rows to display : Maximum number of rows to display

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.

soffid

Search

?

⚙

[Main Menu](#) > [Administration](#) > [Resources](#) > [Users](#)

frankin

Quick [Basic](#) [Advanced](#)

| <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

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Object type :

Description :

Use textual index :

Code

Filter

☐ rid
 ☐ fullName
 ☐ birthDate
 ☐ picture
 ☐ __ORGANIZ
 ☐ userType

Code :

Label :

Data type :

User hint :

Description :

Required :

Include in quick search :

Prevent duplicated values :

Multiple values :

Maximum number of rows to display :

manager

Manager

User

User hint

Description

☐ Yes ☐ No

☒ Yes ☐ No

☐ Yes ☐ No

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

Search

?

⚙

[Main Menu](#) > [Administration](#) > [Resources](#) > [Users](#)

frankin

Quick [Basic](#) [Advanced](#)

| <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

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[Main Menu](#) > [Administration](#) > [Resources](#) > [Users](#)

🔍

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

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[Main Menu](#) > [Administration](#) > [Resources](#) > [Users](#)

🔍

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

?

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[Main Menu](#) > [Administration](#) > [Resources](#) > [Users](#)

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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

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[Main Menu](#) > [Administration](#) > [Resources](#) > [Users](#)

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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*

[Quick](#) [Basic](#) [Advanced](#)

| <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?

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| <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?

[Quick](#) [Basic](#) [Advanced](#)

| <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?

[Quick](#) [Basic](#) [Advanced](#)

| <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 | 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 |
| AND | 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. |
| + | The "+" or required operator requires that the term after the "+" symbol exist somewhere in a the field of a single document. |
| NOT | The NOT operator excludes documents that contain the term after NOT. This is equivalent to a difference using sets. |
| - | The "-" or prohibit operator excludes documents that contain the term after the "-" symbol. |

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+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"
  }
]
}

```

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",
    }
  ]
}
```

[illegible]

Ne+Q8Hh6yEAG/jrL6i1S3bbTugYXaXQ1kVnDLZbm2rE6nyGhHpM9sZiuJS2mtp6ltrFKtJgd1tTPLqFT65SN94HsuGfsA
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naYo1At+w5AJ3Wf3Tv47vTIA1u2+jpZzXw1g+903BjxZTUdcxuO/TjQrtipSbl6spG9Wfj6H5zbUsRcSPjXUizqGHjGhX
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C0y6nvWzD4iX7rxEwfTqkilSzMqVDcqpsrOpv6nTTja8Cg2p0g69FppfddzyEi7FT64abpV0WBHYBuxsANSeQ75othbjc
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sVNSqB7ZsLE7gg90X85Z7D2aEGdtXY3J8Yk6BdVGAtluKJtp8506BjNvlztkU+32A2mj5WZCP60UTO583aC2LXcDgppq
A51/pr0x+KLOgBwo6xBTJ0FSoi62s1VCafkXQjzkps9UU61NVZ3BPVUYLINSmAwJDGxLIN3MGdOgazoNtEWfDFSjKSw
pNe6X9oITqUvrY6i54Wmqczp0ATiAnToH//2Q=="

```
    },  
    "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/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+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+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"
  }
]
}

```

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",
```

```
"schemas": [
  "urn:soffid:com.soffid.iam.api.User"
],
"modifiedDate": "2023-06-02 07:41:47",
"attributes": {
  "picture":
```

Ne+Q8Hh6yEAG/jrL6i1S3bbTugYXaXQ1kVnDLZbm2rE6nyGhHpM9sZiuJS2mtp6ltrFKtJgd1tTPLqFT65SN94HsuGfsA
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BcFhkw6ZFYm9yxvqzHS5t4W8pG/gUe5YAchbcJMTBrvzEwopiBUrg8h/4IZtB7dkbyQB56TQ4phaZjFDNUQd9/Td8bQI
229ji9RKiXznsuP5V7Kn0EvcEgzKo1ChU89Xb/avrCVqjVLKbE72tckHSwHG5Mk7OweRdd9txNyL6knmx4+AECTOvH
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7PNqWJUaLenUI4Am6E+eYeYmDw9UBh37/Oe5VqSujl6hkYZWU6gg8JgdrdBEO5qwxGSGSiNSGQu4/IQgjOeAvr4wM1s
XH9VVKndfT4zd0cfmE80xrlxF5ncKb2DEFhY21K6E7t3OXuwt07Ij8PIA2Ard3nO6y5sYGIvBj0S8Cg6Z4oCnkHEzE7Io5
6qjvvL/ppibsEXgLmM6G4G5LnU7v1gej7Jp2pnw/f78JGXeRLHZOnZ5iQ8ahDHxgHwb8L/v8AZkhwDvEqkdI13jjlIDFBh
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DrrraTTFtOgDjSsIREgCyx6xWEEzQFcbwGNZ4wtAdeNaNBjjAG8FDNBWgaVIVYNBCCAtowwgEaywEnRLR0DgI4CIH4
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DmZA6C4tsTjKebgxcjKEBK/HLKfpc5Y6nQbhy5zQ/Q3hO3WrHgqovmczH4CAP6SFHW4pbah8NVH9aGkf9qiE2bsF6/
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PdEZfQK9xIL5M6B8PURt5zpqmnd6wjUc5Hb/E02z0yQt6iWuAHhtEAzhqQdYA8QV6tTmaphnOVs4+sovpoDztqOB
A3XIXicJTRnTE1atwQaZUB1dCLhrsRv/MS4p4hAGqZPqqnYxFlb0YnR0HAX1XkbjIB1kdCEV1z01vSqEArUwzm7C5BtY
dsb9zCBncSuEX2RWfvZkXX+mV75T7FEkcNWf8psHbEnQYnDaaAhqY9Oxf4SsxeHrn28ZT8qxPwUAQKEdYNYzf6Lf7
o1jV4sB/Uo+XhCYvCoNTXVj3Bm+N5DyJ9o+SvDU69VHV1cZlII7SnX9P1nqGx9pJWpo67yOOL+y3vCeTOE4FvSXHR
naYo1At+w5AJ3Wf3Tv47vTIA1u2+jpZzXw1g+903BjxZTUdcxuO/TjQrtipSbl6spG9Wfj6H5zbUsRcSPjXUizqGHjGhX
gRMN0ipMmrWPlx9Hb6D3x6yH/8AzqbGwo0/wLNBszohhaq2enlb7SGx9LW9RArk/SBdynOeAGvryjMCjM2dzdcADc
o7uZ75dYno3h6JP1yIBpeoMgNt4DAENbQHdaRa+TIWoulWxCk03R+0QSq2U3zEA2HceUCsw1Km1Zmex6u1g1rDj
mN+QmgwLtUzCklkKs9ygdTvAG8i3Ezz7Z2MV8Qrkgrmtl4HS4J5ier7LqLYeEBINcgHYJUb8upHlxHhrlfSHfKcJWdWB
C0y6nvWzD4iX7rxEwfTqkilSzMqVDcqpsrOpv6nTTja8Cg2p0g69FppfddzyEi7FT64abpV0WBHYBuxsANSeQ75othbjc
1O2xVtDIWxIHedwgegbLY2F5Kx9MMpHAjXzkBD0coGpPiZIfvbwPLsVhVpv1Tajrh3v/ANGsSabX5JUUVk0hKC5Abew
Gcfz64asfU03mk6V0Q532zjqSeRftU2Pg6IP6zM2WLHNuNTK/eDUU0qg7stVEPnAFg665ErFRmpDqcQm7rKT9gP4i+
U94Uy96A1sISpSvcG4/qT2GH3ILfglFtHDhLOvsYijUvbXtg3YfiVJJ2VieorLWJy5KjUqwlJ3lijEDXUZlvtxgemMlwiSaRV1
V0lZWAlI1BB3WliMkCPaDtjBgvoBoEWfd1RS7sFUbyTYTp0DC9lekj1wUpgrR5nKvWcLI3ITL/KA/eAZQI/86eeKcHw7C
hR6Tp0Agruod7aC9PGo1rm2qtra54+sl6Z2am7KtVWVqfWU6ahxbRS677k6Xup011iToBqdRsz5Ulc/wCdhXvapze
mTx423jeMwjKioEUhyaOb6up/4mHqb8j21tfXTxHI9OgdUZyzOFXrkU9ft9yvSPtOoGhuLE27mG6MWmjotLP2HzNh6j
WBR/foudwBNvPKdxnToFfhKN1KnCO7U2NNyr1PbXmoBANiDbviVqCa5sFWHi9QfNPGLogVmKRPdwr373qH4BRKm
op4Ubd1nPznToAWY/YH4W/WNKnflsNxGtjOnQNv0Y2pnQKx7SaG/EcD+veJpKeEaoQBOOnQNjs3YoWxl1/f6SZtnGU8j
h3rsAci3VLhc77kQHvNok6B5JT2saH+ISun8TUqVC6OjMtMPmcvncZb3IAABOp7xM2+LZ83ZA7ClTWIZlv23Gt3OY2Jt
lvpaLOgDw+Is2lgBusLcbi/E8tZ6p0a2mHRTfxD5zp0DV0sRKjpdSx+ModWrhGDBwxGYXAlsRcEXvvE6dAotl9HqeDQ
sVNSqB7ZsLE7gg90X85Z7D2aEGdtXY3J8Yk6BdVGAtluKJtp8506BjNvlztkU+32A2mj5WZCP60UTO583aC2LXcDgppq
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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+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"
}
]
}

```

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 #2

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