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# 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 ? ⚙

Main Menu > Administration > Configuration > Global Settings > Metadata ◀ 9 / 12 ▶

Object type :

Description :

Use textual index : ☒ Yes ☐ No ☐ III ←

<input type="checkbox"/>	Code	Label	Data type	Built-in type
<input type="checkbox"/>	Filter	Filter	Filter	Filter
<input type="checkbox"/>	__COMMONATTRIBUTES__	Common attributes	Separator	Yes
<input type="checkbox"/>	userName	User name	String	Yes
<input type="checkbox"/>	firstName	First name	String	Yes
<input type="checkbox"/>	lastName	Last Name	String	Yes
<input type="checkbox"/>	middleName	Middle name	String	Yes

## 2. Check the attributes included in the quick search.

soffid ? ⚙

Main Menu > Administration > Configuration > Global Settings > Metadata ◀ 2 / 31 ▶

Object type :

Description :

Use textual index : ☒ Yes ☐ No ☐ III

Attribute metadata

Code :

Label :

Data type :

Letter case :

User hint :

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 :

# 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

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

Object type :

Description :

Use textual index :

Code

Filter

☐ rid
 ☐ fullName
 ☐ birthDate
 ☐ picture
 ☐ \_\_ORGANIZATION
 ☐ userType

Attribute metadata

◀ 15 / 32 ▶

Code :

manager

Label :

Manager

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

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

?

[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](#)

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](#)

Quick Basic Advanced

<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

- 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](#)

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](#)

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:

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

<b>Fuzzy Searches</b>	<p>To do a fuzzy search use the tilde, "~", symbol at the end of a Single word Term</p> <p><u>Soffid Console &lt;= 3.4 version</u></p> <p>~0.8: stricter search</p> <p>~0.1: more lax search</p> <p><u>Soffid Console &gt; 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>
<b>Range Searches</b>	<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>
<b>Boosting a Term</b>	<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

<b>OR</b>	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
<b>AND</b>	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.
<b>+</b>	The "+" or required operator requires that the term after the "+" symbol exist somewhere in a the field of a single document.
<b>NOT</b>	The NOT operator excludes documents that contain the term after NOT. This is equivalent to a difference using sets.
<b>-</b>	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.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+d
isabled+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+di
sabled+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+d
isabled+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.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"
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      "firstName": "Frankaaa",
      "emailAddress": "pgarcia@soffid.com",
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```

```
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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":
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sabled+eq+false",
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"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+d
isabled+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.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+di
sabled+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/websevice/scim2/v1/User/3910",
  "links": {
    "roleAccounts":
"http://soffid.35x.lab:8089/soffid/websevice/scim2/v1/RoleAccount?filter=userCode+eq+' frank' +
and+enabled+eq+true",
    "groupUsers":
"http://soffid.35x.lab:8089/soffid/websevice/scim2/v1/GroupUser?filter=user+eq+' frank' +and+di
sabled+eq+false",
    "accounts":
"http://soffid.35x.lab:8089/soffid/websevice/scim2/v1/Account?filter=type+eq+U+and+users.user
.userName+eq+' frank' ",
    "effectiveGrants":
"http://soffid.35x.lab:8089/soffid/websevice/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/4AAQSkZJRgABAQAAQABAAQ/2wCEAAoHCBYWFRgVFRYYGRgaGhkYGHgaGBoYGHoYHBkaGhgZGhgCIS4lHB4rIRgYJ
jgmKy8xNTU1GiQ7QDs0Py40NTEBDaWMBgYGEAYGEDEdFh0xMTExMTExMTExMTExMTExMTExMTExMTExMTExMTExMTE
xMTExMTExMTExMTExMf/AABEIAKgBKwMBIgACEQEDEQH/xAAcAAABBQEBAQAAAAAAAAAADAQIEBQYABwj/xABFEAACA
QIDBAcECAQFAGcBAAABAgADEQSSIQUxQVGEyJhcYGRMkKhsQcjUnKSwdHwFGKCoIQzY7LhU3NDZIOTo8LxYf/EABQBAQA
AAAAAAAAAAAAAAAAAAD/xAAUEQEAAAAAAAAAAAAAAAAAA/9oADAMBAAIRAxEAPwDeqIVZwEcBAQQiCIBHqIDgItogj
wICWiqIto4CAqiZn6ScNnWdN7DI/wAcp/3TUKJX9JcNnWld0dNj5qMw+UD5zcQYh6qG+gPpGrQbAdThBHUsK3MfEw4wR5
n5QG4dtd8t8JU3DT0/wCZBpYVRvI9ZMpqq97ytxgTi44n8zz3D9+k4G+4ee79iR/4pF3C/iY2rtIAakD0gT6WH0lz4/v97
oZEPL7RzHu5/nM/U2wg3Fm+Eh1NsN7oA+MDWfxir7Kj975Fx00re04Xuvb+0a+kyVTaDtvC+ANh6CANQwNFw2wg3ZnP4R6
nX4SFV2y59kKv9x9Tp8JUXMab3gS62MZvaYnx0npI7Vo0oeAJiVKLAXINoCl41njAJzixsdPnAUNEZpY7H2FiMSbUabMOL
nsOPFzp6XM9G60/R/SpEPiCKrjULb6tT906ue86d0DLdEuhz4krVqhkob+Iao0ScLP2vTmPwqNFUUIihVUBVUCwAG4AQw3
RpEBhEYVhJgkQA0sCZJYQbLAj00ZeFqLBQNAqwgSKphFgMCRwSEAhVWAFUsCToBqSdwHEmUmI6YYJCQapJH2Uc/G0r/pH2
y1FEpLcBwSx5gaBfz9J4/isWzHfab61ivpKwqexTrP32RB8Ww8ACU2J+lVrkU8MgHAvULf2qo+c8xZo14G1xn0kY5/ZdKY
/00F/V80pMX0jxNX/ADMTVYHeM5VfwrYfCUmaITAmCoI7r5BzTrmBYDFGDav3yJaKtNjwgG0JPjGHFNFXCkyTR2cDqxPgI
EA12PExERmPZBPgCZd0cIg0iE+MtKeznb2QQDwtv/esDLjBPxGXx/S0TB8zfwm2w/Rose1eX0H6PULtm3wMBhtiM5si+us
```

u8N0KdvaNvKwm/wAFhUQjIl7d36y1C0fcC+JEDzE9Csu8mFodF1G+3pN9XRuQ+cjFLDUQMvh+j6BtRbyhdq7DTJu56j9Ja  
tvvFxL9gg3/AHXgeYYjZ6qWPLlu8ZsuhfRzDPSGIemHcsW7faUZTYWTdfxvKNkzswtcA30F766D4fGekbCw4TD01At2Qbd  
51J8TeBNRQAABYDcBuHlHho2dAfeJmgY0mATNGs0YzRmeA8tBu0VngWeAjtBZo4vB5oGlQwimAVo4PAkq0KryIHjg8CJ0  
k2DSxtLq6hZWGq0p7SHjpuIPEGeN9IuhWKwPLMhqU+FRaWfV5l3p56d89yDxy1IHZNEn0BtTozg8QSa1BMx3ul0bzKWv5z  
M4z6L8M2t0tVp9zZXHyB+MDy0JPRqv0VVPcxKH71Nl+TGQNoFzWoI9Z61Iog1Az5iScqgXHMibJUp3498lrhlG+DanlPw  
lmaV0Q/y/L/APIEXIL6CEWnyndfJ2BVScpNoDMNgGYiwB85ZJsuotiU08QZabMwig38949RNKmFDLrYwMxgKS3CurKeFx  
++c02GwAt2XBHDSK0FKqLi45b/Cd1AGqi3h+kB38Jbe/oJJpBFgm+N0y8z6RmGIBvx5wDde5PZB8bWkoI1u03kJyM0JnV  
sQAL6Ad/OAKpSHf6yvXnhuvFq7U1IWl++RhXz3vpAdm3yJjn7DW0IBsYdjy0m6QsShyt90/KBUB0w/YVt9xmJ14k6fAes3  
+DZcqoHViqqDYi+gHDhMLhELhETQMoGhsQNM5PLfaw+MxaU6iJTULLIuw9lRbUM3EnlA1BE6DLxM8B5Ea0b1k7NAY4g4Ux  
pEATGBYw7iDKwAxmWHIEbpAv1hAIJYQGA4R4jBHKYBBFiAziYCGKI0mKIDxKHp4p/gnt9unfwzj87S+WVnSxL4Kv3Jn/Aw  
b8oHi+LpAtpwCmTqVH6pL8j/uMFTp7yfD0AEYpCiI0BRfjrAqkoXa1o9sMyG/wCWhpCqLax+P2oEAAAZHXUc0EBuG2w9M  
3yg25f8S2wnTncwDIV4XHw0mTxWiE/bsugPAWwz7+6Ds9sxW4G/mLgEEjkQQbwPYdnbdp0tlYa+nflBmVhpuni2G2nk5ib  
jox0jD9g+1A090oBmEitj0Q9owi4RzrKDaxdWsqFi0NtLwJe1Nt1stqKgXF8zfVtjKHE9o3r4nX71hfmbI2JNUKk1xfQKD  
qSeQ4eJg2Z8Ndy6U70EuEzszWubs29R690C1wGKw6nLnDhD2jL1KiMNDfvvYD0kKjgKuJp02a1XZGKu1SmACAAVNNxYrch  
iN8yiYoo/1QqBNzI3a6sg20f3l+UDb1TcaayG99YLDVibZuUk110vAhbBpXJHMHU8r3NvIXLxWpA0VAFrgj9+szmA26uHx  
LoVuxF8xPshgCQB4W9Zf5y75h7639bpf+4QLmn7I8B8opESLAQRSZxERYAW84xVE5lgBYxpjmSMcQBuY08c0HaBqFEdaIo  
jha60UCdaKIC3nTohMDoojLxYBVMbjSP1lGpT+2jp+JSB0WSKZgeB1Kp00ul7jkbk/vwlli6oegjjgSvkDp8CI/pbs/qcX  
Wp7lc51+6/at4A3HlImF6X6t6ZG7tr8j+UALLC040F4zEbH7S52sx0vb2eXjNL0VIZATb/n9/KWu19kBxmXQj98IG0TYFU5  
lennDEMhVwpzDQW0+1uGnHnNbsvolSSiy0Ls5zWXUILAKoYgXsAnE+Q8Hh6yEAG/jrL6i1S3bbTugYXaXQ1kVnDLZbm2rE  
6nyGhHpM9sZiuJS2mtp6ltrFKtJgd1tTPLqFT65SN94HsuGfsAnu+Ufhgt75QfLjIuz+1RvxtHYapAj4/C02a5WxBBvoDo  
d17eMqcZsNajEq+W9iylQwJGg0p0PfntXoh1uN8rv4fnp++cBcFhkW6ZFym9yxvqzHS5t4W8pG/gUe5YAchbcJMTBrvzEw  
opiBURg8h/4LztB7dkbyQB56TQ4phaZjFDNUQd9/Td8bQI229jI9RKiXznsuP5V7Kn0EvcEgzKo1ChU89Xb/avrCVqJVLK  
bE72tckHSWGH5Mk70werdd9txNyL6knmx4+AECT0vHGNIgcTEvEvHgQ0DTs04iNJgKRB0sfnjWebHCRto52gs8DUARwjVM  
dA4CLEvEJgLmiXnRsB0VYwQl0DhDI0AIRTAxP0o7PNqWJUaLenUI4Am6E+eYeYmDw9UBh37/0e5VqSuji6hkYZWU6gg8Jg  
drdBEO5qwxGSiNSGQu4/lQgj0eAvr4wM1sXH9VVKndfT4zd0cfmE80xrIxFsncKb2DEFhY21K6E7t30Xuwt07LJ8PlA2Ar  
d3n06y5sYGLVBj0S8Cg6Z4oCnkHEzE7Io56qjvvL/ppibsEXgLM6G4G5LnU7v1gej7Jp2pnw/f78JGxerLHZ0nZ5iQ8ah  
DHxgHwb8L/v8AZkhWdvEqkd1l3jjJLDFBhA5I3QLsRvk1jIWJ4wKjG4nWU+GrMa6sqLramys1hY6kKCQ0EtMYmhJ/fK06  
LJ2qrfcF/xE/lAs8Iju2dxlA0VbWpiv90b9DrrraTTFt0gDjSsIREgCy6xWEEzQFcbGNZ4wtAdeNaNBjjAG8FDNBWgaV  
IVYNBCCAtowwgEaywEnRLR0DgI4CII4QHARWwCsKggKizyb6SuknWv1CEdWhsbnss/E2Gr24Dc0Pdrun3SL+HpGjTI611N  
ze2SnuJJ4E7v+bTxqtUN81wt9c7Dth7icB+7wJWz3GQ7rF2IsLC4VLI3C418pJw1TIwPCQcC+dKiBizLaqtxY2HZf4FT5Q  
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WJdk3uo3gfaHdlt60jjFKDrabFwe0VdbqZ1epbUyi21hjSb+IoeyT9YnAX94Dh3jvkLMVnTN3XgLjDmU21PLvgMBtE4cMh  
pliTc62bcBfLa5XvGmshPisis53LZv7h+sVMLthHUHQ8bw0o9JUB3G13ZSGv929s3leSqe26De/bhqDv46jSGQYeotmRCD  
vuo1MhbU6NKwLJdWt97dqAQfbHc3kRAnjF0yLiolveYTqeJRjZXRjyDAn0BmAqsY0UcEMBmsLtdQdXS+rQ0K+2ttcwgXRD  
e9gGs5INldRufMpF1ud+4ccu6B6SwgnWYXcbfq4dsr13UvlyN1aJTW1xZyBw58LTzb02lTrpnpsDb2gGBKkcpIgPYRhEK  
yxloAwJ0JlnZYAmg80M6wVoGLURyidVo9WgEUzmiRYDZ1o4LHBYAwIRRHBI9afpA5FlD0g22mFplmILkHIv8A9jyUSDtXp  
fQpBshFRl35TdR4kanyE8l25t56z13bUm4JF2HIIl7IOV9YAdtY96jmo7asbl21uearvbkCQA0H0VYJ0qIW/nqaj46R5ze  
0EA79Q3Y9/a/SMrFTrUqM55LrbuudPSBKwG0enVR3emQDZl7PsEWYaC24mW01MACPUsuqPc025rxUnmNPKxmedJuwWmW8S  
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jNVsJc0hzM6X7yJjqqyEbXLXZWyKdXXPc8V9lh+vH1gennFUKl06upAtexBt6RKg0aIATrVu0bCZzBdEcPa+errycDcByGs  
sE6MYNd6FiL+3UbXfwB8IFliNoU1FzUQD74/WQ6rmqv10p0IY6KdeHP5QB2bhUYFKNPNwsoNvM6k+Mt6LhBfjAr8ArglKo  
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7IvgUUhjMJjHaqxLujltSr1alIn8YRYF6iil+qB/m0LuPMYRQqZtFbb/s1s/wD8Fa5bwgREwrUzmFDEp/NSc007ULb4yQt  
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fU03mk6V0Q532zjqSeRftU2Pg6IP6zM2WLHNuNTK/eDUU0qg7stVEPnAFg665ErFRmpDqcQm7rKT9gP4i+U94Uy96A1sLS  
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```

6p0a2mHRTfXd5zp0DV0sRKj pdsX+ModWrhGDBwxGYXAI sRcEXvvE6dAotl9HqeDQsVNSqB7ZsLE7gg90X85Z7D2aEGdtXY
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fkXQjzkps9UU61NVZ3BpVUYLlNSmAwJDGxLIN3MGd0gazoNtEwfDFSjKSwpNe6X9oITqUvrY6i54Wmqczp0ATiAnToH//2
Q=="

    },
    "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.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+di
sabled+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+d
isabled+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+di
sabled+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.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.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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