ISE Identity-Group, User Creation and Modification through Rest API

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Introduction

This document describes how to create and modify identity groups and users using Rest API which can be used for identity management automation. The procedure described in this chapter is based on sample standalone ISE deployment and Rest API Firefox Client (RESTED) in JSON format.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Cisco Identity Services Engine (ISE)
- REST API
- JSON

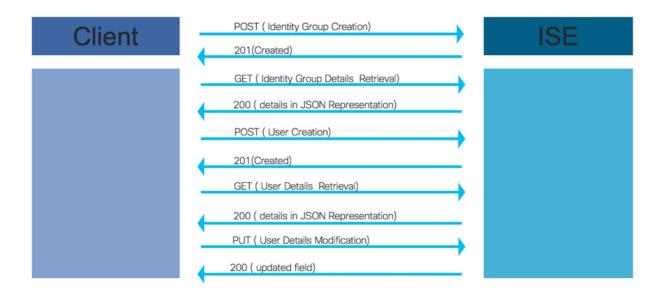
Components Used

This document is not restricted to specific software and hardware versions and is only a sample configuration guide through REST API.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

Configure

API Request and Response flow



These are the sample steps for operations through API which can be used as a reference to build your own calls.

1. Identity Group Creation

Create an Identity Group with the help of the **POST** method.

URL for API Call:

https://<ISE IP>:9060/ers/config/identitygroup

The header for API Call:

HTTP 'Content-Type'

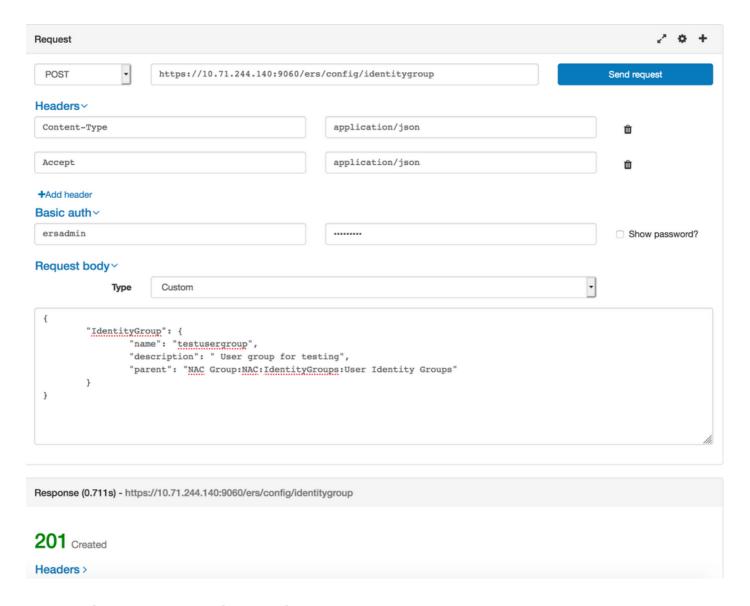
application/json

Header: HTTP 'Accept' Header:

application/json

JSON code for Identity Group Creation

```
{ "IdentityGroup": { "name": "<Identity Group Name>", "description": "<Indentity Group Description>", "parent": "NAC Group:NAC:IdentityGroups:User Identity Groups" } } Example:
```



2. Identity Group Details Retrieval

Fetch the Identity Group details with the help of GET method.

URL for API Call:

https://<ISE IP>:9060/ers/config/identitygroup?filter=name.CONTAINS.<Identity Group Name >

The header for API Call:

HTTP 'Content-Type'

Header: application/json

HTTP 'Accept' Header: application/json

Example:

GET .140:9060/ers/config/identity	group?filter=name.CONTAINS.testusergroup	Send request
Headers		
Content-Type	application/json	ŵ
Accept	application/json	ŵ
+Add header		
Basic authy		
ersadmin		☐ Show password?
Response (0.786s) - https://10.71.244.140:9060/ers/config/identitygroup?filter=name.CONTAINS.testusergroup		

200 ok

Headers >

Note: ID (received in Identity Group details) is required to create users in this Identity Group.

3. User Creation

Create a User with the help of POST Method.

URL for API Call:

https://<ISE IP>:9060/ers/config/internaluser/

The header for API Call:

HTTP ContentType Header:
application/json

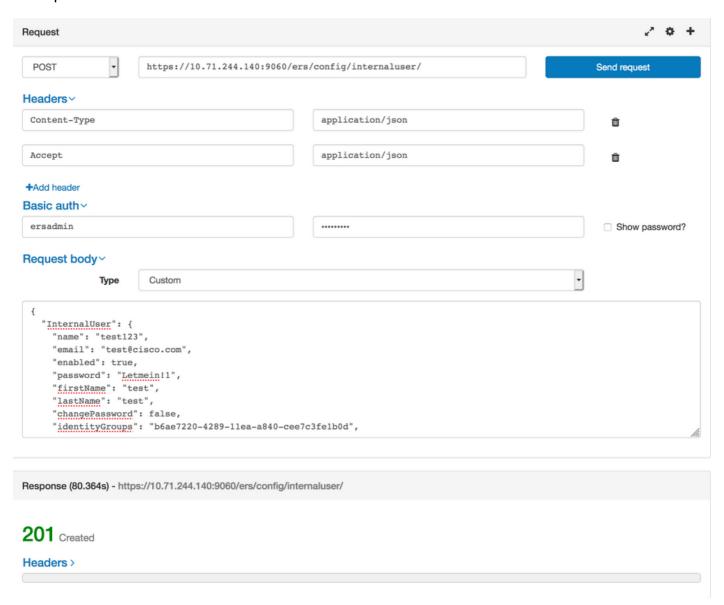
HTTP **Accept** Header: application/json

JSON code for User Creation:

```
{ "InternalUser": { "name": "<username>", "email": "<emailid of user>", "enabled": true, "password": "<password>", "firstName": "<first name of user>", "lastName": "<Last name of user>", "changePassword": false, "identityGroups": "<ID of Identity Group, which user will be part of and can be received as described in step 2>", "expiryDateEnabled": false,
```

```
"enablePassword": "<Enable Password>" } }
```

Example:



4. User Details Retrieval

Fetch User details with the help of **GET** Method.

URL for API Call:

https://<ISE IP>:9060/ers/config/internaluser

Note: This URL Can be used to filter Users. User can be filtered using firstName, lastName, identityGroup, name, description, email, enabled.

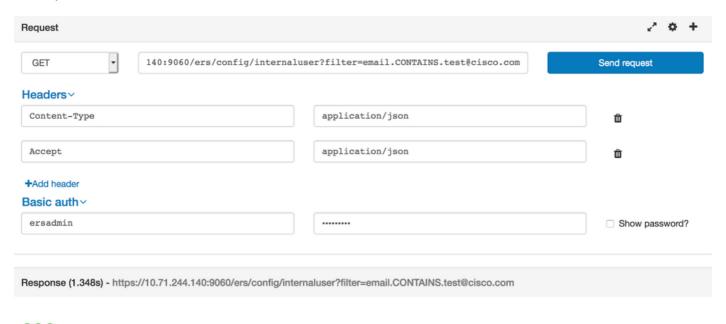
This is recommended to filter user details with email ID as email id is unique for each user.

https://<ISE IP>:9060/ers/config/internaluser?filter=<name of the field used for filtering>.CONTAINS.<Value of the field for filtering>

The header for API Call:

HTTP Content-Type
Header:
HTTP Accept Header: application/json

Example:



200 ok

Headers >

Note:IDand**Name**received here is required to update the password or other information for a user.**href**URL will be used to update user information.

5. User Details Modification

Modify user password with the help of PUT Method.

URL for API Call:

https://<ISE IP>:9060/ers/config/internaluser/<User ID received using process described in step 4>

Above is href URL received using the process described in Step 4.

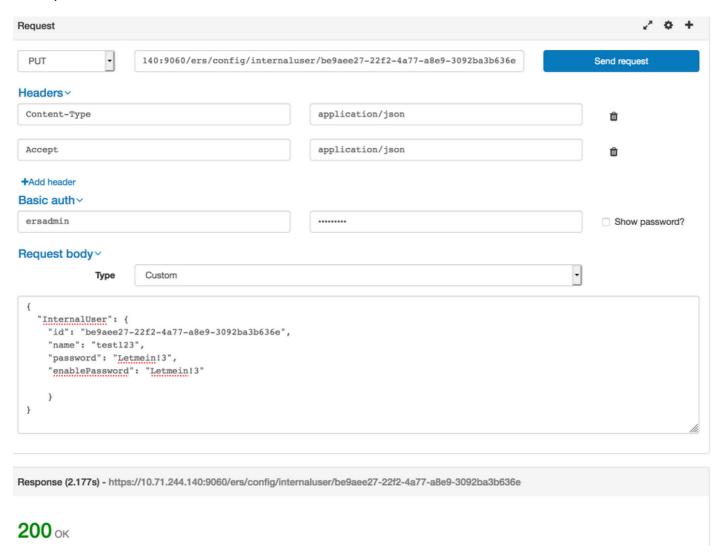
The header for API Call:

HTTP Content-Type
Header:
HTTP Accept Header: application/json

JSON code for User credential Modification:

{ "InternalUser": { "id": "<ID of user which needs password change>", "name": " <user name which needs password change>", "password": "<New Password>", "enablePassword": "<New Enable Password>" } }

Example:



Verify

To Verify identity groups navigate to Administration > Identity Management > Groups > Identity Groups > User Identity Groups in ISE GUI.

To Verify users navigate to Administration > Identity Management > Identities > Users in ISE GUI.