

OpenStack Identity

Group Admin Extension

(Jan 23, 2011)



OpenStack Identity Group Admin Extension

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This document is intended for software developers interested in using the Group Admin Extension Extension to the OpenStack Identity Application Programming Interface (API). The document is for informational purposes only and is provided "AS IS."

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1. About This Extension

Name	Group Admin Extension
Namespace	http://docs.rackspace.com/identity/api/ext/RAX-KSGRP/v1.0
Alias	RAX-GRPADM
Contact	Tom Hopkins <tom.hopkins@rackspace.com>
Status	ALPHA
Last Update	2011-01-23
Dependencies	OpenStack Identity API v2.0 (2011-12-08) Identity Group Extension (RAX-KSGRP)
Doc Link (PDF)	http://docs.rackspacecloud.com/identity/api/ext/rax-grpadmin/RAX-GRPADM.pdf
Doc Link (WADL)	http://docs.rackspacecloud.com/identity/api/ext/rax-grpadmin/RAX-GRPADM.wadl
Short Description	Allows the management of groups in the identity server.

Example 1.1. Extension Query Response: XML

```
<?xml version="1.0" encoding="UTF-8"?>

<extensions xmlns="http://docs.openstack.org/common/api/v1.0"
  xmlns:atom="http://www.w3.org/2005/Atom">
  <extension name="Group Admin Extension"
    namespace="http://docs.rackspace.com/identity/api/ext/
RAX-KSGRP/v1.0"
    alias="RAX-GRPADM" updated="2011-01-23T10:40:00-04:00">
    <description>
      Allows the management of groups in the identity server.
    </description>
    <atom:link rel="describedby" type="application/pdf"
      href="http://docs.rackspacecloud.com/identity/api/
ext/rax-grpadm/RAX-GRPADM.pdf"/>
    <atom:link rel="describedby" type="application/xml"
      href="http://docs.rackspacecloud.com/identity/api/
ext/rax-grpadm/RAX-GRPADM.wadl"/>
  </extension>
</extensions>
```

Example 1.2. Extension Query Response: JSON

```
{
  "extensions": [
    {
      "name": "Group Admin Extension",
      "namespace": "http://docs.rackspace.com/identity/api/ext/
RAX-KSGRP/v1.0",
      "alias": "RAX-GRPADM",
      "updated": "2011-01-23T10:40:00-04:00",
      "description": "Allows the management of groups in the
identity server.",
      "links": [
        {
          "rel": "describedby",
          "type": "application/pdf",
          "href": "http://docs.rackspacecloud.com/identity/
api/ext/rax-grpadm/RAX-GRPADM.pdf"
        },
        {
          "rel": "describedby",
          "type": "application/xml",
          "href": "http://docs.rackspacecloud.com/identity/
api/ext/rax-grpadm/RAX-GRPADM.wadl"
        }
      ]
    }
  ]
}
```

1.1. Document Change History

The most recent changes to this document are described below.

Revision Date	Summary of Changes
Jan 23, 2011	<ul style="list-style-type: none"> Initial release.

2. Summary of Changes

This extension adds capabilities to the RAX-KSGRP extension. It allows for CRUD operations on groups and gives the ability to associate groups with users.

Verb	URI	Description
New Resources		
GET	/RAX-GRPADM/groups	List of groups.
POST	/RAX-GRPADM/groups	Add a new group.
GET	/RAX-GRPADM/groups/{groupId}	Get group by id.
PUT	/RAX-GRPADM/groups/{groupId}	Update a group.
DELETE	/RAX-GRPADM/groups/{groupId}	Delete a group.
GET	/RAX-GRPADM/groups/{groupId}/users	List users for group.
PUT	/RAX-GRPADM/groups/{groupId}/users/{userId}	Add a user to the group.
DELETE	/RAX-GRPADM/groups/{groupId}/users/{userId}	Remove a user to the group.

2.1. New Headers

None.

2.2. New Faults

None.

2.3. New Resources

A new resource is created at /RAX-GRPADM/groups that allows for the management of groups.

Verb	URI	Description
GET	/RAX-GRPADM/groups	List of groups.
POST	/RAX-GRPADM/groups	Add a new group.
GET	/RAX-GRPADM/groups/{groupId}	Get group by id.
PUT	/RAX-GRPADM/groups/{groupId}	Update a group.
DELETE	/RAX-GRPADM/groups/{groupId}	Delete a group.
GET	/RAX-GRPADM/groups/{groupId}/users	List users for group.
PUT	/RAX-GRPADM/groups/{groupId}/users/{userId}	Add a user to the group.
DELETE	/RAX-GRPADM/groups/{groupId}/users/{userId}	Remove a user to the group.

2.3.1. Get Groups

Verb	URI	Description
GET	/RAX-GRPADM/groups?marker= <i>string</i> &limit= <i>int</i> &name= <i>string</i>	List of groups.

Normal Response Code(s): 200, 203

Error Response Code(s): identityFault (400, 500, ...), badRequest (400), unauthorized (401), forbidden (403), badMethod (405), overLimit (413), serviceUnavailable (503)

Displays a list of available groups. You can use the *name* to display only those groups matching a particular name.

Table 2.1. Get Groups Request Parameters

Name	Style	Type	Description
marker	query	String	The marker parameter is optional.
limit	query	Int	The limit parameter is optional.
name	query	String	The name parameter is optional.

Example 2.1. Get Groups Response: XML

```
<groups xmlns="http://docs.rackspace.com/identity/api/ext/RAX-KSGRP/v1.0"
  xmlns:atom="http://www.w3.org/2005/Atom">
  <group id="1234" name="group1">
    <description>A Description of the group</description>
  </group>
  <group id="1235" name="group2">
    <description>A Description of the group</description>
  </group>
  <group id="1236" name="group3">
    <description>A Description of the group</description>
  </group>
  <atom:link rel="next" href="https://identity.openstack.com/v2.0/RAX-GRPADM/groups?marker=1236"/>
</groups>
```

Example 2.2. Get Groups Response: JSON

```
{
  "RAX-KSGRP:groups": [
    {
      "id" : "1234",
      "name": "group1",
      "description": "A Description of the group"
    },
    {
      "id" : "1235",
      "name": "group2",
      "description": "A Description of the group"
    },
    {
      "id" : "1236",
      "name": "group3",
      "description": "A Description of the group"
    }
  ]
}
```

```
    }  
  ],  
  "RAX-KSGRP:groups_links": [  
    {  
      "rel" : "next",  
      "href" : "https://identity.openstack.com/v2.0/RAX-GRPADM/groups?  
marker=1236"  
    }  
  ]  
}
```

2.3.2. Add a New Group

Verb	URI	Description
POST	/RAX-GRPADM/groups	Add a new group.

Normal Response Code(s): 201

Error Response Code(s): identityFault (400, 500, ...), badRequest (400), unauthorized (401), forbidden (403), badMethod (405), overLimit (413), serviceUnavailable (503), itemNotFound (404), badMediaType (415)

Example 2.3. Add a New Group Request: XML

```
<group name="group1" xmlns="http://docs.rackspace.com/identity/api/ext/RAX-KSGRP/v1.0">
  <description>A Description of the group</description>
</group>
```

Example 2.4. Add a New Group Request: JSON

```
{
  "RAX-KSGRP:group": {
    "name" : "group1",
    "description" : "A Description of the group"
  }
}
```

Table 2.2. Add a New Group Response Parameters

Name	Style	Type	Description
Location	header	AnyURI	The full URL to the newly created group is returned via the Location header. The Location header should always be supplied.

Example 2.5. Add a New Group Response: XML

```
<group id="1234" name="group1" xmlns="http://docs.rackspace.com/identity/api/ext/RAX-KSGRP/v1.0">
  <description>A Description of the group</description>
</group>
```

Example 2.6. Add a New Group Response: JSON

```
{
  "RAX-KSGRP:group": {
    "id" : "1234",
    "name" : "group1",
    "description" : "A Description of the group"
  }
}
```

2.3.3. Get Group

Verb	URI	Description
GET	/RAX-GRPADM/groups/{groupId}	Get group by id.

Normal Response Code(s): 200, 203

Error Response Code(s): identityFault (400, 500, ...), badRequest (400), unauthorized (401), forbidden (403), badMethod (405), overLimit (413), serviceUnavailable (503), itemNotFound (404)

Table 2.3. Get Group Request Parameters

Name	Style	Type	Description
groupId	template	String	A unique identifier for the group.

This operation does not require a request body.

Example 2.7. Get Group Response: XML

```
<group id="1234" name="group1" xmlns="http://docs.rackspace.com/identity/api/ext/RAX-KSGRP/v1.0">
  <description>A Description of the group</description>
</group>
```

Example 2.8. Get Group Response: JSON

```
{
  "RAX-KSGRP:group": {
    "id" : "1234",
    "name" : "group1",
    "description" : "A Description of the group"
  }
}
```

2.3.4. Update a Group

Verb	URI	Description
PUT	/RAX-GRPADM/groups/{groupId}	Update a group.

Normal Response Code(s): 200

Error Response Code(s): identityFault (400, 500, ...), badRequest (400), unauthorized (401), forbidden (403), badMethod (405), overLimit (413), serviceUnavailable (503), itemNotFound (404), badMediaType (415)

Table 2.4. Update a Group Request Parameters

Name	Style	Type	Description
groupId	template	String	A unique identifier for the group.

Example 2.9. Update a Group Request: XML

```
<group name="newName" xmlns="http://docs.rackspace.com/identity/api/ext/RAX-KSGRP/v1.0">
  <description>A new description</description>
</group>
```

Example 2.10. Update a Group Request: JSON

```
{
  "RAX-KSGRP:group": {
    "name" : "newName",
    "description" : "A Description of the group"
  }
}
```

Example 2.11. Update a Group Response: XML

```
<group id="1234" name="newName" xmlns="http://docs.rackspace.com/identity/api/ext/RAX-KSGRP/v1.0">
  <description>A new description</description>
</group>
```

Example 2.12. Update a Group Response: JSON

```
{
  "RAX-KSGRP:group": {
    "id" : "1234",
    "name" : "newName",
    "description" : "A new description"
  }
}
```

2.3.5. Delete Group

Verb	URI	Description
DELETE	/RAX-GRPADM/groups/{groupId}	Delete a group.

Normal Response Code(s): 204

Error Response Code(s): identityFault (400, 500, ...), badRequest (400), unauthorized (401), forbidden (403), badMethod (405), overLimit (413), serviceUnavailable (503), itemNotFound (404)

Table 2.5. Delete Group Request Parameters

Name	Style	Type	Description
groupId	template	String	A unique identifier for the group.

This operation does not require a request body and does not return a response body.

2.3.6. Get Users For Group

Verb	URI	Description
GET	/RAX-GRPADM/groups/{groupId}/users ?marker=string&limit=int	List users for group.

Normal Response Code(s): 200, 203

Error Response Code(s): identityFault (400, 500, ...), badRequest (400), unauthorized (401), forbidden (403), badMethod (405), overLimit (413), serviceUnavailable (503)

A list of users belonging to a particular group.

Table 2.6. Get Users For Group Request Parameters

Name	Style	Type	Description
marker	query	String	The marker parameter is optional.
limit	query	Int	The limit parameter is optional.
groupId	template	String	A unique identifier for the group.

Example 2.13. Get Users For Group Response: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<users xmlns="http://docs.openstack.org/identity/api/v2.0">
  <user xmlns="http://docs.openstack.org/identity/api/v2.0"
    enabled="true" email="john.smith@example.org"
    username="jqsmith" id="u1000"/>
  <user xmlns="http://docs.openstack.org/identity/api/v2.0"
    enabled="true" email="john.smith@example.org"
    username="jqsmith" id="u1001"/>
</users>
```

Example 2.14. Get Users For Group Response: JSON

```
{
  "users": [
    {
      "id": "u1000",
      "username": "jqsmith",
      "email": "john.smith@example.org",
      "enabled": true
    },
    {
      "id": "u1001",
      "username": "jqsmith",
      "email": "john.smith@example.org",
      "enabled": true
    }
  ],
  "users_links": []
}
```


2.3.7. Add User to Group

Verb	URI	Description
PUT	/RAX-GRPADM/groups/{groupId}/users/{userId}	Add a user to the group.

Normal Response Code(s): 204

Error Response Code(s): identityFault (400, 500, ...), badRequest (400), unauthorized (401), forbidden (403), badMethod (405), overLimit (413), serviceUnavailable (503), itemNotFound (404)

Table 2.7. Add User to Group Request Parameters

Name	Style	Type	Description
groupId	template	String	A unique identifier for the group.
userId	template	String	A unique identifier for the user.

This operation does not require a request body and does not return a response body.

2.3.8. Remove User From Group

Verb	URI	Description
DELETE	/RAX-GRPADM/groups/{groupId}/users/{userId}	Remove a user to the group.

Normal Response Code(s): 204

Error Response Code(s): identityFault (400, 500, ...), badRequest (400), unauthorized (401), forbidden (403), badMethod (405), overLimit (413), serviceUnavailable (503), itemNotFound (404)

Table 2.8. Remove User From Group Request Parameters

Name	Style	Type	Description
groupId	template	String	A unique identifier for the group.
userId	template	String	A unique identifier for the user.

This operation does not require a request body and does not return a response body.

2.4. New Actions

None.