# Keystone 3.0

참조 url: <https://docs.openstack.org/api-ref/identity/v3/>

Keystone\_endpoint: <http://183.111.177.141/identity>

Identity service version: v3.14 (ussuri)

작성일자: 2020.10.26

## Get token

**POST**

/v3/auth/tokens

**Password authentication with unscoped authorization**

설명: 1차 인증으로 결과값으로 오는 header부분의 X-Subject-Token과 response의 user\_id를 알아낸다.

**Request**

Header:

content-type: application/json

body

{

"auth": {

"identity": {

"methods": [

"password"

],

"password": {

"user": {

"name": "**admin**",

"domain": {

"id": "**default**"

},

"password": "**devstack**"

}

}

}

}

}

**Response:**

**201 - Created**

Content-Type: application/json

Content-Length: 312

X-Subject-Token: gAAAAABfllBxORcc9qI0lgzHFkjwX\_kMuk1SMOTlxuQqumxGehGHSxmXLCN3mWYbQkWGQXJLoOfQmM644IJ2fb2BMb-Z6lfEjRB3Yj8llDkQu-ApZXM-N2Q-pw-1l\_BeMXjJUS4LV8o0JJQOxyEKjtxs5XMdAzg-1w

Vary: X-Auth-Token

x-openstack-request-id: req-50fcb1f2-9f5f-40ab-ae2a-48116d300461

Connection: close

{

"token":{

"methods":[

"password"

],

"user":{

"domain":{

"id":"default",

"name":"Default"

},

"id":"264cf5cbeecb4015bcc2724d7a40dd76",

"name":"admin",

"password\_expires\_at":null

},

"audit\_ids":[

"pf7kxko8Rda1w0Z4G1AwOA"

],

"expires\_at":"2020-10-26T05:20:17.000000Z",

"issued\_at":"2020-10-26T04:20:17.000000Z"

}

}

## Get project lists with unscoped token

**GET**

/v3/auth/projects

**Get available project scopes**

설명: 1차 인증에서 얻은 token값을 이용해, 사용자가 접근할 수 있는 project list를 얻는다.

**Request:**

Header:

content-type: application/json

X-Auth-Token: **gAAAAABfllBxORcc9qI0lgzHFkjwX\_kMuk1SMOTlxuQqumxGehGHSxmXLCN3mWYbQkWGQXJLoOfQmM644IJ2fb2BMb-Z6lfEjRB3Yj8llDkQu-ApZXM-N2Q-pw-1l\_BeMXjJUS4LV8o0JJQOxyEKjtxs5XMdAzg-1w**

**Response:**

**200 - OK**

{

"projects":[

{

"id":"449082e6de0a4a109464ce247d25fc3a",

"name":"admin",

"domain\_id":"default",

"description":"Bootstrap project for initializing the cloud.",

"enabled":true,

"parent\_id":"default",

"is\_domain":false,

"tags":[

],

"options":{

},

"links":{

"self":"http://183.111.177.141/identity/v3/projects/449082e6de0a4a109464ce247d25fc3a"

}

},

{

"id":"6c26bca528c9467ebc22d3d0a21561d7",

"name":"demo",

"domain\_id":"default",

"description":"",

"enabled":true,

"parent\_id":"default",

"is\_domain":false,

"tags":[

],

"options":{

},

"links":{

"self":"http://183.111.177.141/identity/v3/projects/6c26bca528c9467ebc22d3d0a21561d7"

}

},

{

"id":"f5cbce24fb4640a4a8d5e8cc6c2fe298",

"name":"alt\_demo",

"domain\_id":"default",

"description":"",

"enabled":true,

"parent\_id":"default",

"is\_domain":false,

"tags":[

],

"options":{

},

"links":{

"self":"http://183.111.177.141/identity/v3/projects/f5cbce24fb4640a4a8d5e8cc6c2fe298"

}

}

],

"links":{

"next":null,

"self":"http://183.111.177.141/identity/v3/auth/projects",

"previous":null

}

}

## Get scoped token(project scoped)

**POST**

/v3/auth/tokens

**Token authentication with scoped authorization**

설명: 1차 인증으로 결과값으로 오는 header부분의 X-Subject-Token과 response의 user\_id와 Get projects list에서 얻은 project list의 id 값을 이용한다. 결과 값으로 2차 토큰(scoped)이 header에 넘어온다. 이후부터는 2차 토큰을 이용해서 keystone 및 openstack 서비스를 사용한다.

**Request:**

Header:

content-type: application/json

X-Auth-Token: **gAAAAABfllBxORcc9qI0lgzHFkjwX\_kMuk1SMOTlxuQqumxGehGHSxmXLCN3mWYbQkWGQXJLoOfQmM644IJ2fb2BMb-Z6lfEjRB3Yj8llDkQu-ApZXM-N2Q-pw-1l\_BeMXjJUS4LV8o0JJQOxyEKjtxs5XMdAzg-1w**

**Body:**

{

"auth": {

"identity": {

"methods": [

"token"

],

"token": {

"id": " **gAAAAABfllBxORcc9qI0lgzHFkjwX\_kMuk1SMOTlxuQqumxGehGHSxmXLCN3mWYbQkWGQXJLoOfQmM644IJ2fb2BMb-Z6lfEjRB3Yj8llDkQu-ApZXM-N2Q-pw-1l\_BeMXjJUS4LV8o0JJQOxyEKjtxs5XMdAzg-1w**"

}

},

"scope": {

"project": {

"id": "**6c26bca528c9467ebc22d3d0a21561d7**"

}

}

}

}

**Response:**

**201 - Created**

date:Mon, 26 Oct 2020 04:37:34 GMT

server:Apache/2.4.29 (Ubuntu)content-type:application/jsoncontent-length:3268

x-subject-token:gAAAAABfllKON6EUcXQWbQyrEWMKJ50ErjsOD345TyvurgVO-QsfX34guXgOBEVsANVDho7O6-Dz5jT4ELCn\_hJQXQvCMhAyFs5\_n693mZUbQIKD9vDtV5eNZgspiitQqVolP7MHlEJBfJxejHZnjrfwdXC2PI3fff27WOYiHc4CargyKZbzBYA

vary:X-Auth-Tokenx-openstack-request-id:req-dbd01417-99d6-4edf-93dc-18004dd81374

connection:close

response: 생략

## Get Users(with scoped token)

**GET**

/v3/users

**List users**

설명: project\_id를 이용한 2번째 발행 token을 header에 넣어서 호출한다.

**Request:**

Header:

content-type: application/json

X-Auth-Token:gAAAAABfllKON6EUcXQWbQyrEWMKJ50ErjsOD345TyvurgVO-QsfX34guXgOBEVsANVDho7O6-Dz5jT4ELCn\_hJQXQvCMhAyFs5\_n693mZUbQIKD9vDtV5eNZgspiitQqVolP7MHlEJBfJxejHZnjrfwdXC2PI3fff27WOYiHc4CargyKZbzBYA

**Response:**

**200 – OK**

Users list결과값은 생략함