

# REST API Usage Example

Titanium Server



# Using 'curl' to send REST APIs

Get user/password TOKEN from Identity Service for 'admin' user:

```
% curl -i -X POST http://10.10.10.3:5000/v2.0/tokens -H "Content-Type: application/json" -H "User-Agent: python-keystoneclient" -d '{"auth": {"tenantName": "admin", "passwordCredentials": {"username": "admin", "password": "admin"}}}'
```

Controller OAM IP Address  
well-known Port ID for Identity Service  
URL for 'token' related commands  
Request Body in JSON format

Note:  
If using HTTPS, then use "curl -cacert <ca-cert.pem file> ..."



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% curl -i -X POST http://10.10.10.3:5000/v2.0/tokens -H "Content-Type: application/json" -H "User-Agent: python-keystoneclient" -d '{"auth": {"tenantName": "admin", "passwordCredentials": {"username": "admin", "password": "admin"}}}' | tail -n 1 | json_pp
```

```
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload  Total      Spent    Left     Speed
100  9811  100  9711  100    100    139k   1473  ---:--:--  --:--:--  ---:--:--  141k
{
  "access" : {
    "serviceCatalog" : [
      {
        "name" : "nova",
        . . .
      }
    ]
  },
  "token" : {
    "tenant" : {
      "name" : "admin",
      "id" : "2f7018f380444de6b3b61491f323c4e7",
      "description" : "admin tenant",
      "enabled" : true
    },
    "issued_at" : "2015-01-12T17:38:02.949407",
    "id" : "MIRRA . . . qFvvxNUuel",
    "expires" : "2015-01-12T18:38:02Z"
  }
}
%
% TOKEN="MIRRA . . . qFvvxNUuel"
%
```

Note:  
If using HTTPS, then use "curl -cacert <ca-cert.pem file> ..."



# Using 'curl' to send REST APIs

Example of SysInV REST API to query list of hosts:

```
% curl -i http://10.10.10.3:6385/v1/ihosts -X GET -H "Content-Type: application/json" -H "Accept: application/json" -H "X-Auth-Token:${TOKEN}" | tail -n 1 | json_pp
```

```
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload  Total   Spent    Left   Speed
100  5746  100  5746    0     0  128k      0  ---:--:--  ---:--:--  ---:--:--  130k
{
  "ihosts" : [
    {
      "operational" : "enabled",
      "personality" : "controller",
      "hostname" : "controller-0",
      "iprofile_uuid" : null,
      "uuid" : "911b5574-6bf9-4140-97c1-303db63aab25",
      "created_at" : "2015-01-08T19:48:33.315606+00:00",
      "availability" : "available",
      "bm_type" : null,
      "capabilities" : {
        "Personality" : "Controller-Active",
        "stor_function" : "monitor"
      },
      . . .
    },
    {
      "operational" : "enabled",
      "personality" : "controller",
      "hostname" : "controller-1",
      . . .
    },
    {
      . . .
    }
  ]
}
```

Note:  
If using HTTPS, then use "curl -cacert <ca-cert.pem file> ..."

