



Cisco ACI API introduction 1

ACI inspector

YAME! ACI API series

100) Introduction 1 – API inspector

110) Introduction – ACItoolkit, cobra

120) APIC Port Binding

130) APIC vPC Binding

140) APIC CPU

150) end point tracker

160) Log

100) Introduction – API inspector

References

ACI and API

Object Store

API Inspector


Postman

API example







References

Reference

- <https://developer.cisco.com/learning/tracks/aci-programmability/>

 **DEVNET** | Learning Labs Center

ACI Programmability

-  Introduction to ACI Programmability >
-  Intermediate ACI Programmability >
-  Introduction to ACI and Ansible >
-  Introduction to ACI and Terraform >
-  Introduction to Ansible and Cisco MSO >
-  Introduction to Terraform and Cisco MSO >

ACI(APIC) Always On Sandbox

- URL: <https://sandboxapicdc.cisco.com>
- User: admin
- Password: !v3G@!4@Y

Connecting to the ACI Server:

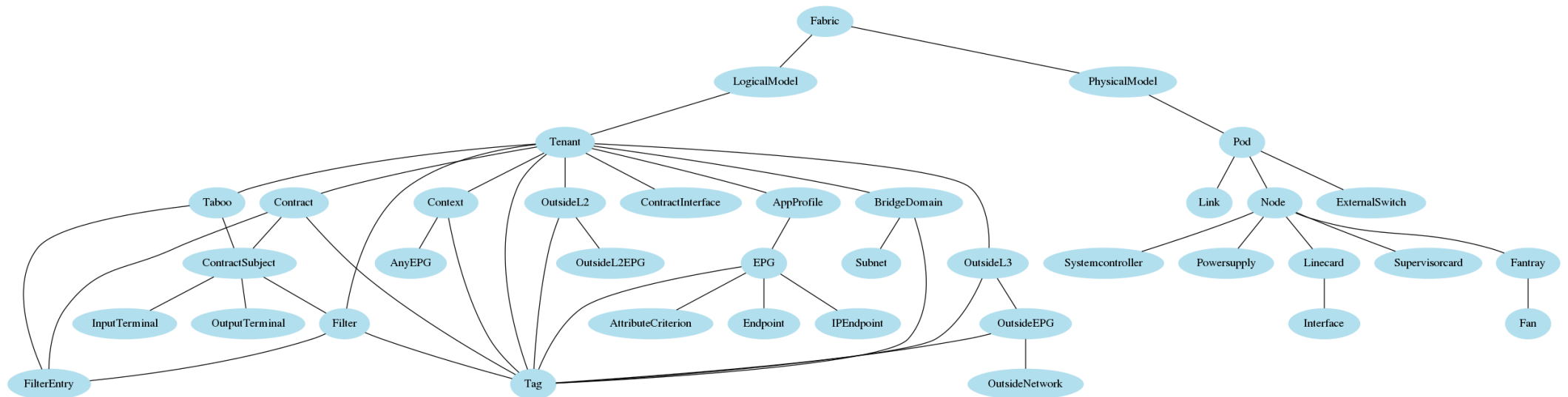
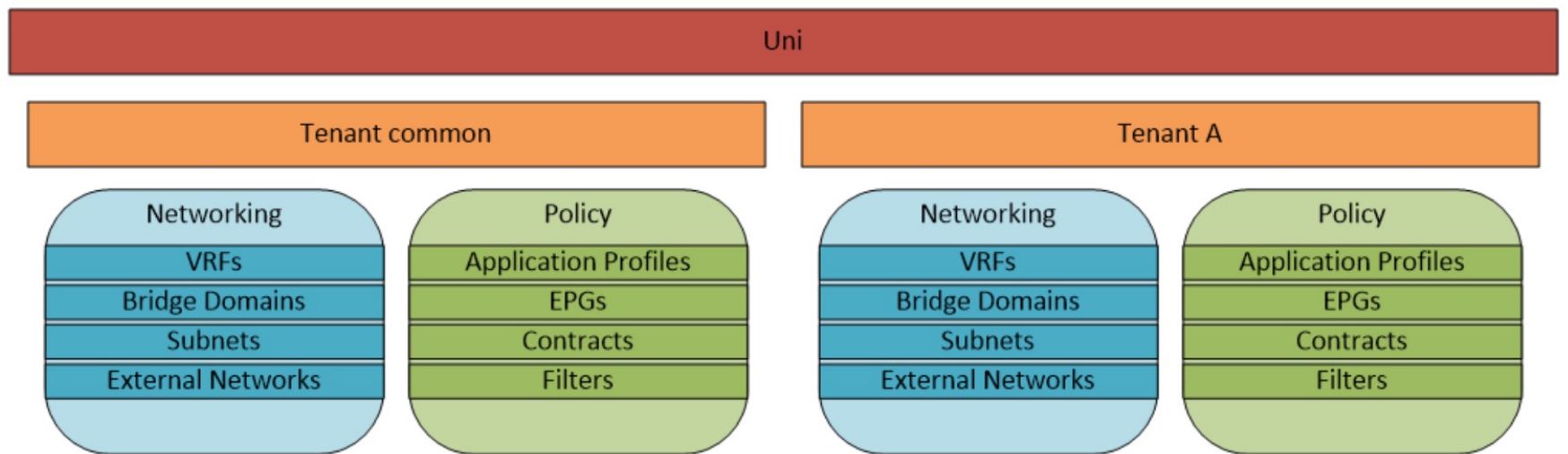
This ACI Sandbox Lab contains a shared ACI Server Instance. The server can be connected using login credentials **admin** and password : **!v3G@!4@Y** and is located at

- <https://sandboxapicdc.cisco.com>

ACI and API

ACI ?

- one object tree
- 100% API



Common Name	Prefix-Property	Module	Class	Parent Class	Example
Tenant	tn -name	fv	Tenant	Uni	tn-Heroes
Context/VRF	ctx -name	fv	Ctx	Tenant	ctx-Corporate
Bridge Domain	BD -name	fv	BD	Tenant	BD-General
Subnet	subnet -ip	fv	Subnet	BD	subnet-10.1.2.1/24
App Profile	ap -name	fv	Ap	Tenant	ap-Superpower
EPG	epg -name	fv	AEPg	Ap	epg-Database
Client Endpoint	cep -name	fv	CEp	AEPg	cep-0000.1111.2222
IP Address	ip -addr	fv	Ip	CEp	ip-10.1.2.20
L3 External	out -name	l3ext	Out	Tenant	out-Corporate
Filter	flt -name	vz	Filter	Tenant	flt-HTTP
Contract	brc -name	vz	BrCP	Tenant	brc-Web_Services
Contract Subject	subj -name	vz	Subj	BrCP	subj-HTTP

Object Store

Object Store

- https://APIC_IP_Address_/visore.html

admin

2

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Help

Documentation

What's New in v5.2(3g)

ACI Fabric Setup

Show API Inspector

Start Remote Logging

Object Store Browser

Show Debug Info

Config Sync Issues

About

Class or DN or URL

Property

Operation

Value

Run Query

23 objects found

Show URL and response of last query

Empty Properties

fvTenant

dn	< uni/tn-demo-tenant-jt > <div></div>
annotation	
childAction	
descr	Workshop tenant
extMngdBy	
lcOwn	local
modTs	2023-01-27T12:37:26.332+00:00
monPolDn	< uni/tn-common/monepg-default > <div></div>
name	demo-tenant-jt
nameAlias	
ownerKey	
ownerTag	
status	
uid	15374
userdom	:all:

fvTenant

dn	< uni/tn-0_api > <div></div>
annotation	
childAction	
descr	

URL and Response of last query



Response Type

JSON

XML

URL

[Copy URL](#)

```
/api/node/class/fvTenant.json?&order-by=fvTenant.modTs|desc
```

Response

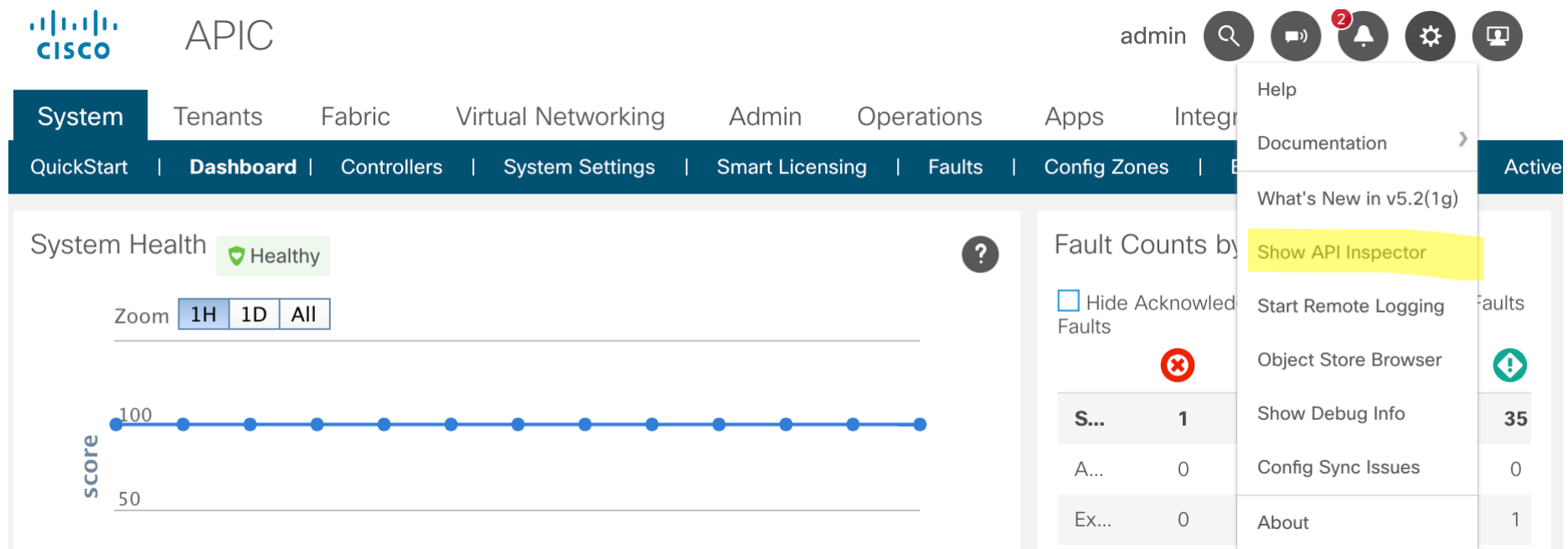
[Copy Response](#)

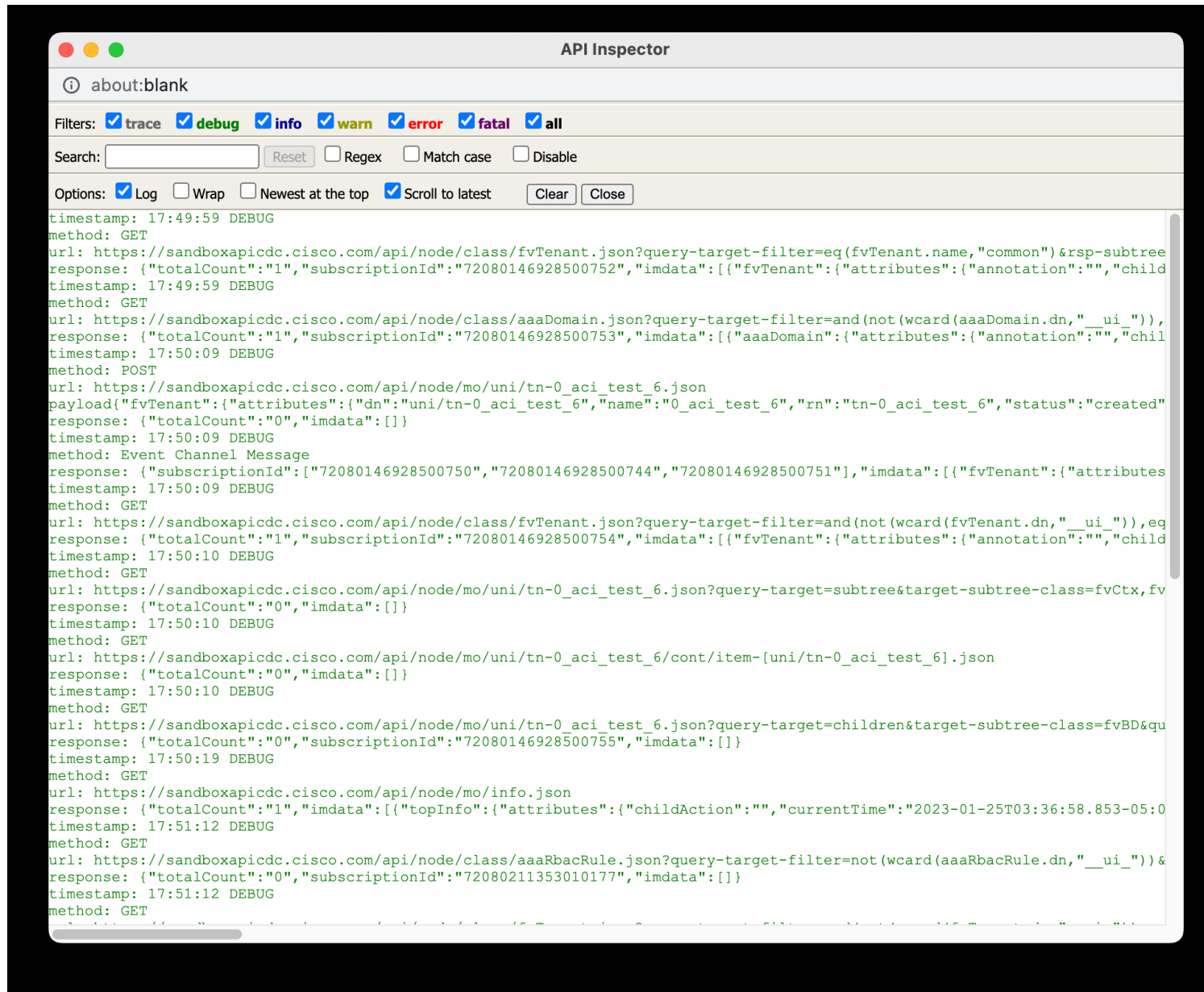
```
{
  "totalCount": "23",
  "imdata": [
    {
      "fvTenant": {
        "attributes": {
          "annotation": "",
          "childAction": "",
          "descr": "Workshop tenant",
          "dn": "uni/tn-demo-tenant-jt",
          "extMngdBy": "",
          "lcOwn": "local",
          "modTs": "2023-01-27T12:37:26.332+00:00",
          "monPolDn": "uni/tn-common/monepg-default",
          "name": "demo-tenant-jt",
          "nameAlias": ""
```

Close

API inspector

ACI inspector





Get the JSON

```
timestamp: 17:50:09 DEBUG
method: POST
url: https://sandboxapicdc.cisco.com/api/node/mo/uni/tn-0_aci_test_6.json
payload{"fvTenant":{"attributes":{"dn":"uni/tn-0_aci_test_6","name":"0_aci_test_6","rn":"tn-0_aci_test_6","status":"created"},"children":[]}}
response: {"totalCount":"0","imdata":[]}
```

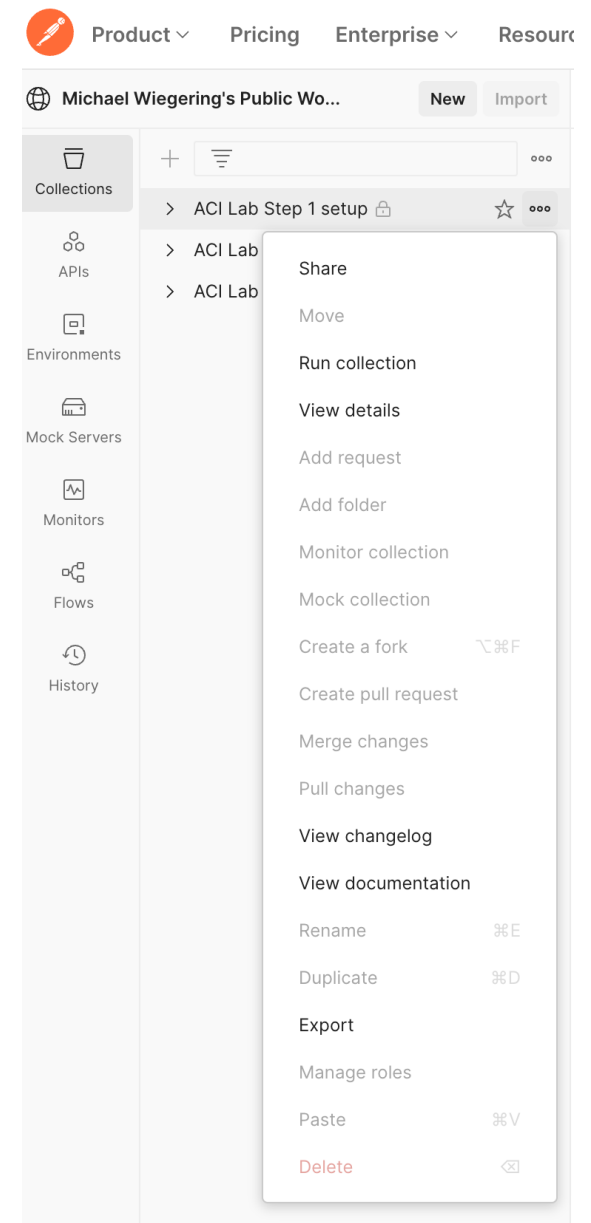
<https://jsonformatter.org/json-viewer>

```
{
  "fvTenant": {
    "attributes": {
      "dn": "uni/tn-0_aci_test_6",
      "name": "0_aci_test_6",
      "rn": "tn-0_aci_test_6",
      "status": "created"
    },
    "children": []
  }
}
```


Postman

POSTMAN

- <https://www.postman.com/MikeWiegering/workspace/michael-wiegering-s-public-workspace/overview>



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Sign In

Create Account

Working locally in Scratch Pad. Switch to a Workspace

Scratch Pad

NewImport

Collections

+

...

ACI Lab Step 1 setup

POST APIC Login Copy

POST Create tenant

POST Create App Profile

POST create vrf

POST Create Old BD

MSO

Webex Calling Provisioning APIs

POST Create tenant

×

+

...

ACI Lab Step 1 setup / Create tenant

Save

▼

...

POST

▼

https://{apic}/api/node/mo/uni/tn-{{tenant}}.json

Send

▼

Params

Auth

Headers (8)

Body

Pre-req.

Tests


Settings

Query Params

	KEY	VALUE	DESCRIPTI	...	Bulk Edit
	Key	Value	Description		

Response

▼



Click Send to get a response

WSA-korea-lab

▼

Code snippet

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Python - Requests

▼

```
1 import requests
2 import json
3
4 url = "https://{apic}/api/node/mo/uni/tn-{{tenant}}.json"
5
6 payload = json.dumps({
7     "fvTenant": {
8         "attributes": {
9             "dn": "uni/tn-{{tenant}}",
10            "name": "{{tenant}}",
11            "rn": "tn-{{tenant}}",
12            "status": "created"
13        },
14        "children": []
15    }
16 })
17 headers = {
18     'Content-Type': 'application/json'
19 }
20
21 response = requests.request("POST", url,
22                             headers=headers, data=payload)
23
24 print(response.text)
```

Runner

Trash

API example