ADDC方案中使用API界面查询vlan-vxlan映射表的经验案例

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问题描述

ADDC6.3方案中，发现控制器审计出来的配置差异与实际界面显示的vlan-vxlan映射关系不符合，需要登录控制器的API界面查看响应的vlan-vxlan关联关系及绑定接口信息，如何操作查看。

过程分析

1.前台界面查看vlan-vxlan映射关系及绑定接口信息
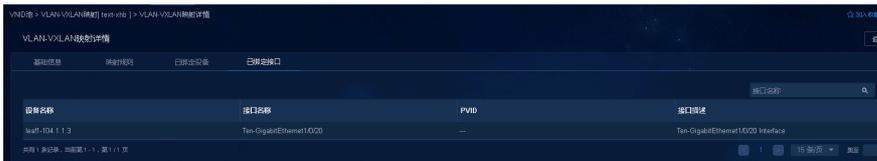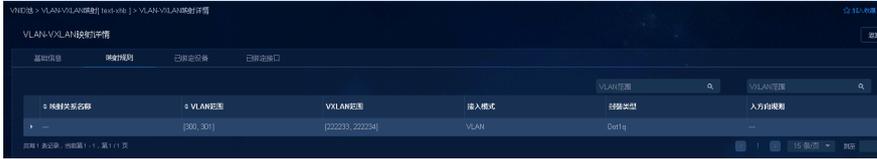
2.登录控制器API界面，http://ip:30000/dc/rsdoc/api/index.html，在NEM页签下找到vlan_domains，该处记录的是所有vlan-vxlan信息。
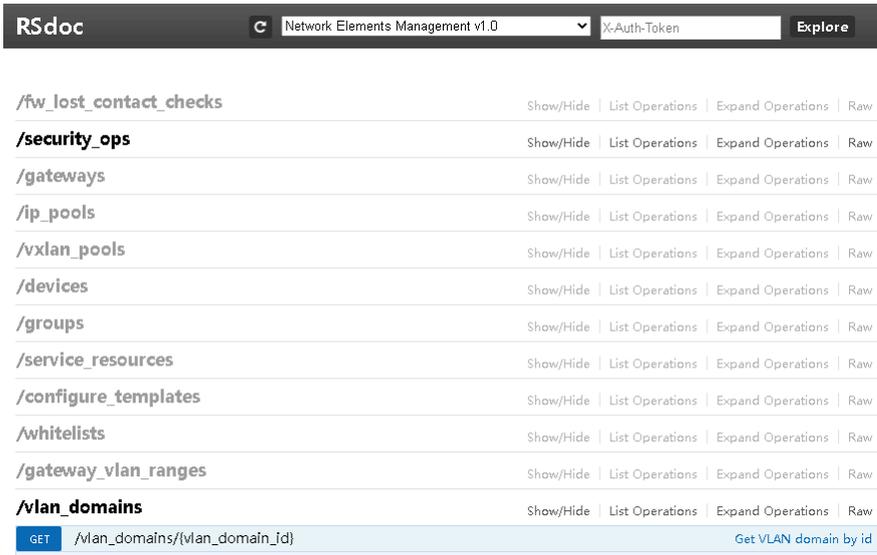
3.输入要查询映射关系的uuid，查看对应信息，可以看到对应映射关系及类型。

/vlan_domains

GET /vlan_domains/{vlan_domain_id}   Get VLAN domain by id

Implementation notes

Normal response codes: ok (200)

Error response codes: BadRequest(400), Unauthorized(401), Forbidden(403), ItemNotFound(404), InternalServerError(500)

Parameters

Parameter	Value	Description
vlan_domain_id	45190fdf-2304-4f5f-b5eb-367	the VLAN domain unique identifier

[Try it out!] Hide Response

Request URL

```
http://99.1.2.100:30000/nem/v1.0/vlan_domains/45190fdf-2304-4f5f-b5eb-3671f61b811c
```

Response Body

```
{
    "domain": {
        "type": "vxlan",
        "id": "45190fdf-2304-4f5f-b5eb-3671f61b811c",
        "name": "text-xhb",
        "vlan_map_list": [
            {
                "start_vlan": 300,
                "end_vlan": 301,
                "start_vxlan": 222233,
                "end_vxlan": 222234,
                "access_mode": "VLAN",
                "name": "",
                "encapsulation_type": "Dot1q",
                "exact_match": true
            }
        ],
        "data_source": "DEFAULT",
        "qinq": false,
        "apply_scope": "interface"
    }
}
```

Response Code

```
200
```

Response Headers

```
cache-control: no-cache, no-store, must-revalidate, private
connection: keep-alive
content-type: application/json
date: Thu, 11 Apr 2024 06:45:40 GMT
expires: Thu, 11 Apr 2024 06:45:40 GMT
kong-defaultmanagedgroup: 0
kong-operatorgroup: 1
kong-operatorgroups: 1
kong-refer: http://99.1.2.100:30000
kong-regionid: 0
kong-tenantid: abd2d9f6-36d9-45b8-b7e3-7a793b3a6f2c
kong-userid: 1
kong-username: admin
server: SDN Controller
transfer-encoding: chunked
```

4.映射表绑定关系可以在port_vlan_domains_bindings查询，如下，输入对应vlan-vxlan映射关系id，可以查询到绑定的设备及接口信息。

/port_vlan_domain_bindings

GET /port_vlan_domain_bindings/{id}   Get port VLAN domain binding by domain id

PUT /port_vlan_domain_bindings/{id}   Update a port VLAN domain binding

DELETE /port_vlan_domain_bindings/{id}   Delete a port VLAN domain binding

PUT /port_vlan_domain_bindings/add_bind_port_list   Update a port VLAN domain binding for add

GET /port_vlan_domain_bindings   Get all Port VLAN domain bindings

Implementation notes

Normal response codes: ok (200)

Error response codes: BadRequest(400), Unauthorized(401), Forbidden(403), ItemNotFound(404), Conflict(409), InternalServerError(500)

Parameters

Parameter	Value	Description
vlan_domain_id	45190fdf-2304-4f5f-b5e	(Optional.) Filters result by domainId.

[Try it out!] Hide Response

Request URL

```
http://99.1.2.100:30000/nem/v1.0/port_vlan_domain_bindings?vlan_domain_id=45190fdf-2304-4f5f-b5eb-3671f61b811c
```

Response Body

```
{
    "binding": {
        "id": "7681acf0-742a-4daa-84d4-54f7e19e66c6",
        "vlan_domain_id": "45190fdf-2304-4f5f-b5eb-3671f61b811c",
        "vlan_domain_name": "text-xhb",
        "bind_port_list": [
            {
                "device_id": "6aa17d4d-4d25-496c-8345-782914056f14",
                "device_name": "leaf1-104.1.1.3",
                "port_name": "Ten-GigabitEthernet1/0/20"
            }
        ]
    }
}
```

Response Code

```
200
```

Response Headers

```
cache-control: no-cache, no-store, must-revalidate, private
connection: keep-alive
content-type: application/json
date: Thu, 11 Apr 2024 06:46:28 GMT
expires: Thu, 11 Apr 2024 06:46:28 GMT
kong-defaultmanagedgroup: 0
```

解决方法

按如上步骤进行vlan-vxlan映射关系查询