

<b>Ironic</b>	.....	3
<b>  Neutron</b>	.....	3
	.....	3
Cleaning Network	.....	3
Provisioning Network	.....	3
Tenant Network	.....	3
	.....	3
	.....	5
<b>  Neutron</b>	.....	6
<b>  Neutron</b>	.....	6
	.....	7
	.....	7
	.....	9
<b>SDN</b>	.....	11
	.....	13

ironic\_

Last update: 2024/10/11 06:55

– [https://atl.kr/dokuwiki/doku.php/ironic\\_%EB%B2%A0%EC%96%B4%EB%A9%94%ED%83%88\\_%EA%B4%80%EB%A6%AC\\_%EC%84%9C%EB%B9%84%EC%8A%A4%EC%9D%98\\_%EB%84%A4%ED%8A%B8%EC%9B%8C%ED%81%AC\\_%EB%AA%A8%EB%8D%88](https://atl.kr/dokuwiki/doku.php/ironic_%EB%B2%A0%EC%96%B4%EB%A9%94%ED%83%88_%EA%B4%80%EB%A6%AC_%EC%84%9C%EB%B9%84%EC%8A%A4%EC%9D%98_%EB%84%A4%ED%8A%B8%EC%9B%8C%ED%81%AC_%EB%AA%A8%EB%8D%88)

–

–

---

## Ironic

# Neutron

Ironic OpenStack API Neutron 가 가 “ ”  
가 (VM) , Ironic Neutron ml2 가 가

## Cleaning Network

## Provisioning Network

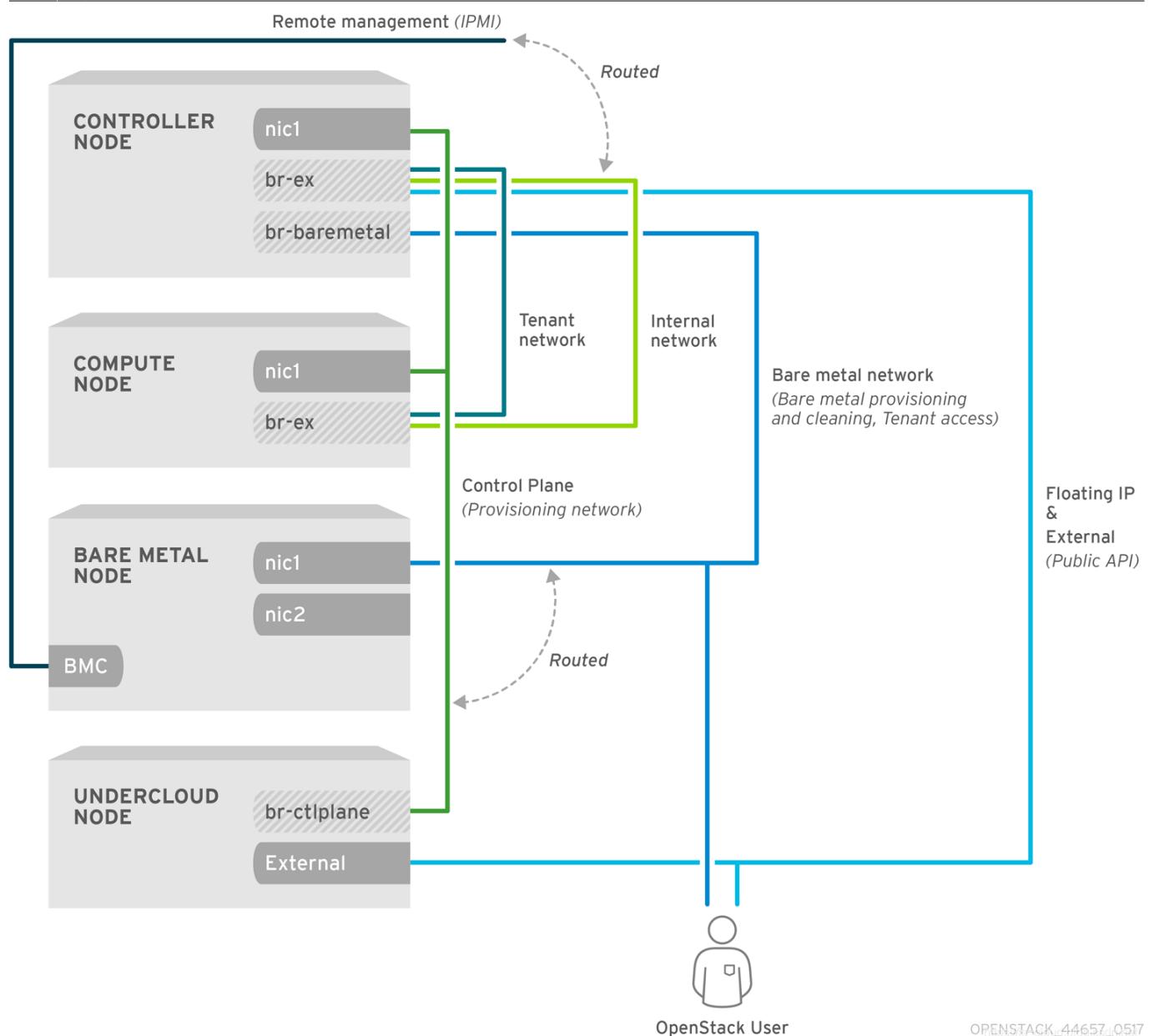
**Provisioning Network:** ( , , PXE provider-VLAN )  
. ( Provisioning Cleaning , Ironic  
가 . )

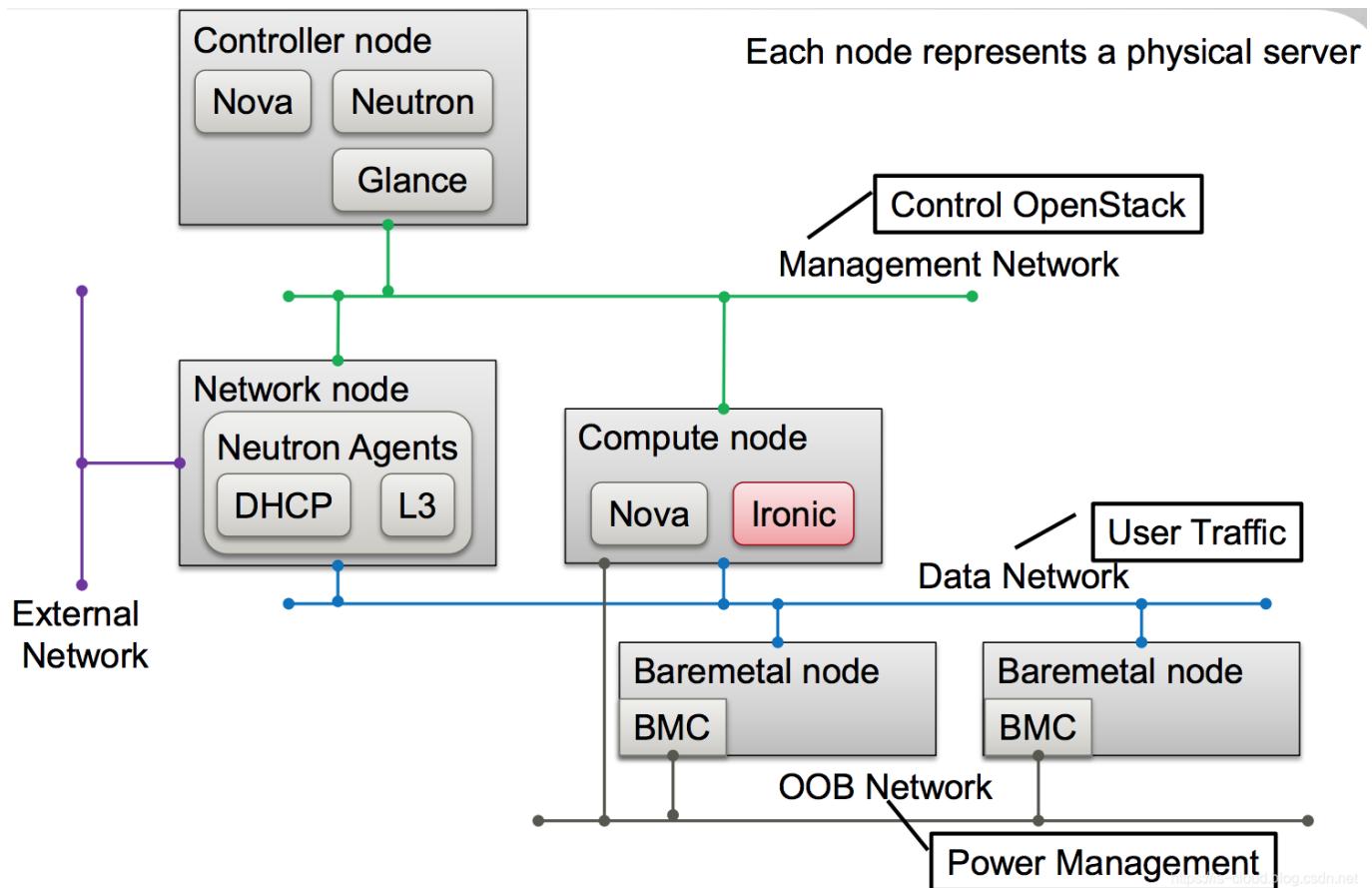
- 가) Neutron VLAN
  - Ironic VLAN
  - VLAN

## Tenant Network

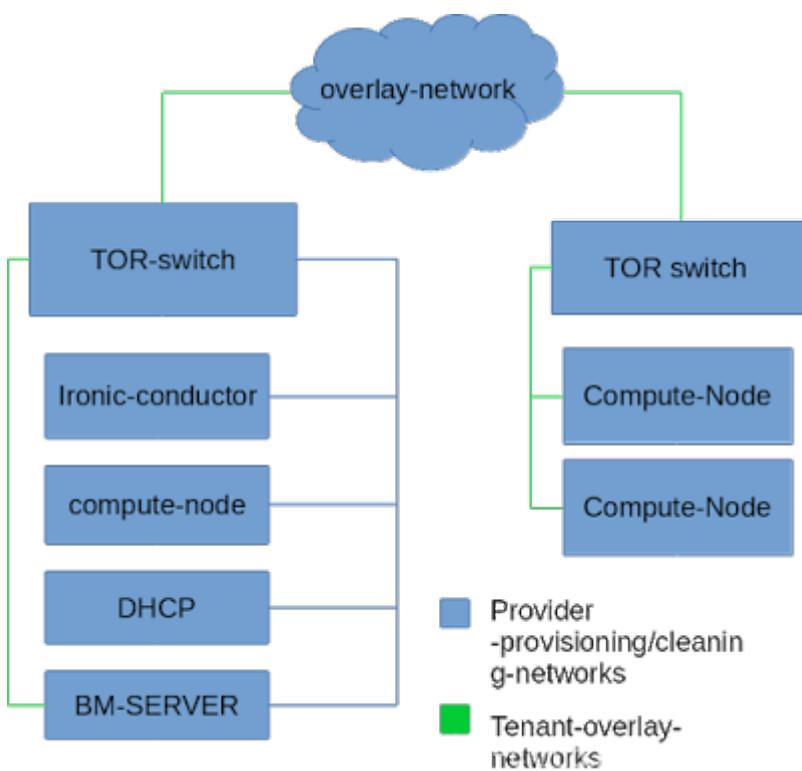
**Tenant Network:** “ ”

- $\gamma$  Neutron (VIAN)





- **Management Network:** OpenStack
  - **External Network:**
  - **Data Network:** , OpenStack
  - **OOB (Out-of-Band) Network:** , IPMI



- **Tenant Network:** “ ”
- **Provider Networks:** ,
- **Ironic Conductor:** “ ” “ ” Ironic , PXE
- **DHCP Server:** “ ” IP , PXE DHCP
- **Top of Rack Switch:** “ ” “ ” 가 , Ironic Conductor ) , (
- **Bare-metal Server:** “ ” “ ”

## Neutron

- **Supporting Port-Groups:** 가 ( : BOND/LAG). Neutron
- **PXE (DHCP ):** PXE 가 PXE . Ironic
- **DHCP**: Neutron Neutron (Neutron extra\_dhcp\_opt ). Neutron DHCP

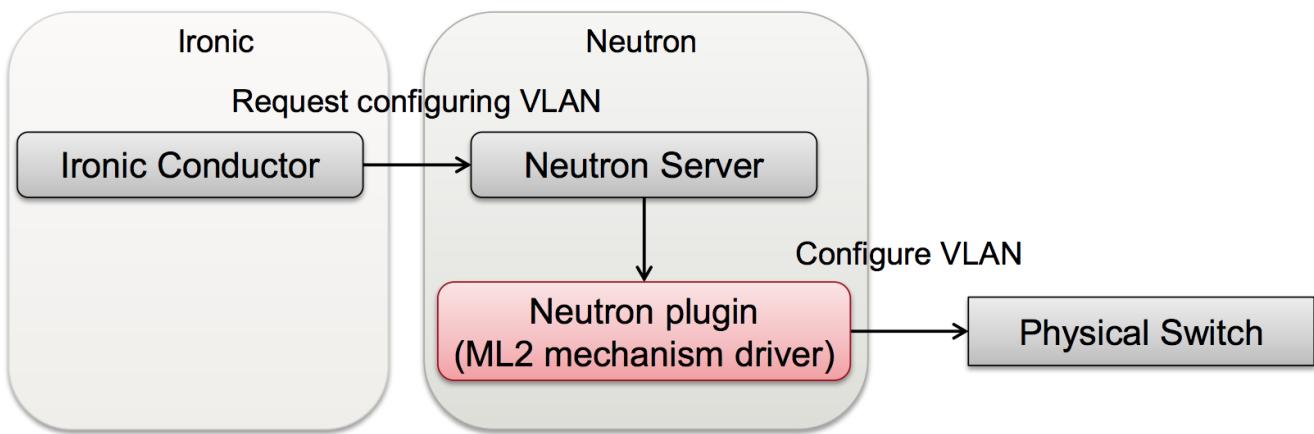
## Neutron

- **Neutron** : Ironic Neutron “ ” Neutron Neutron Neutron
- **(lport)** , 가 가 : Neutron

- **local\_link\_information**: Iport binding-profile, Neutron 가 TOR
  - **switch\_id**: 가 MAC OpenFlow
  - **datapath\_id**
  - **port\_id**:
  - **switch\_info**: ( )
- **port-groups**: TOR LAG/BOND

Neutron Iport

**DHCP** : Ironic Neutron extra\_dhcp\_option DHCP가 PXE  
 ( : TFTP DHCP ). Neutron ML2  
 DHCP 가



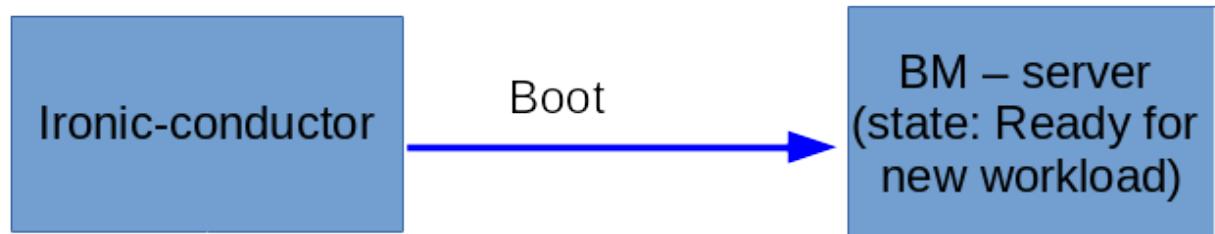
<https://s-cloud.blog.csdn.net>

- Neutron VLAN
- ML2

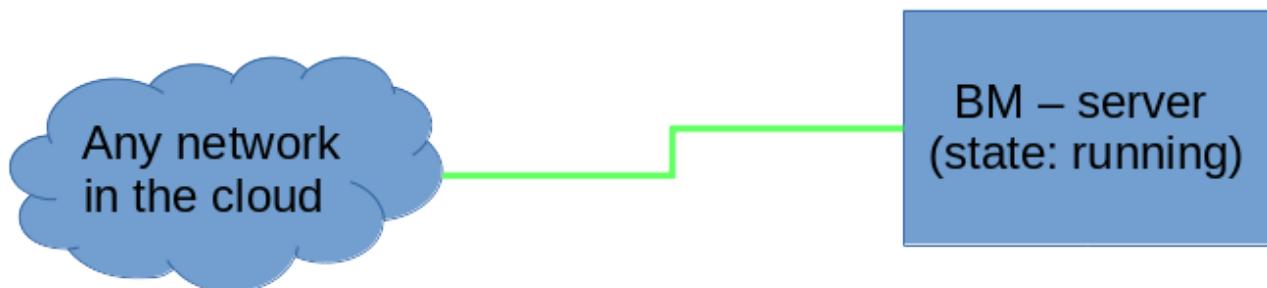
## Cleaning:



## Provisioning:



## Connect to tenant network :



## Cleaning:

Beck to first step

- █ cleaning-network
- █ Provision network
- █ Tenant network

1. **Cleaning:** ( ) .

2. **Provisioning:** Ironic-conductor

PXE . PXE ( ) ,

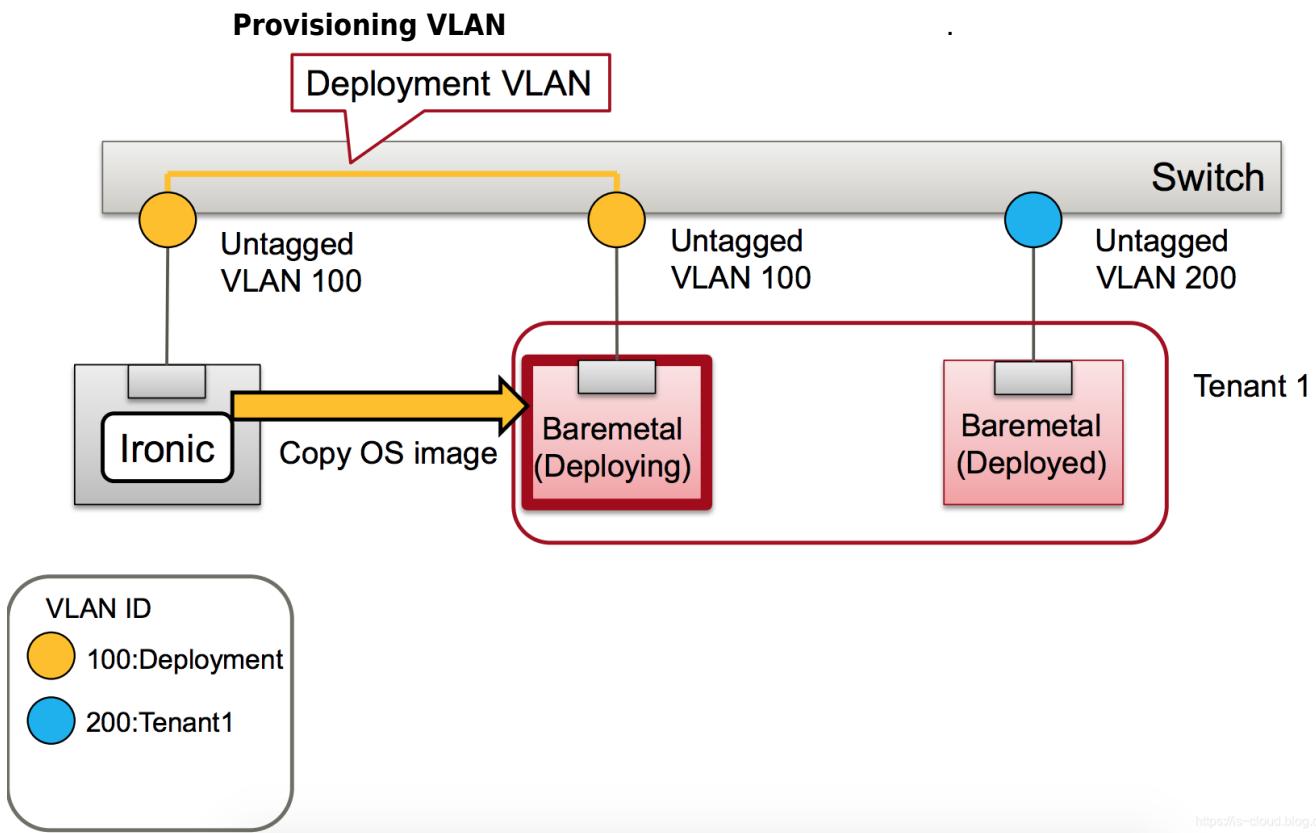
) :

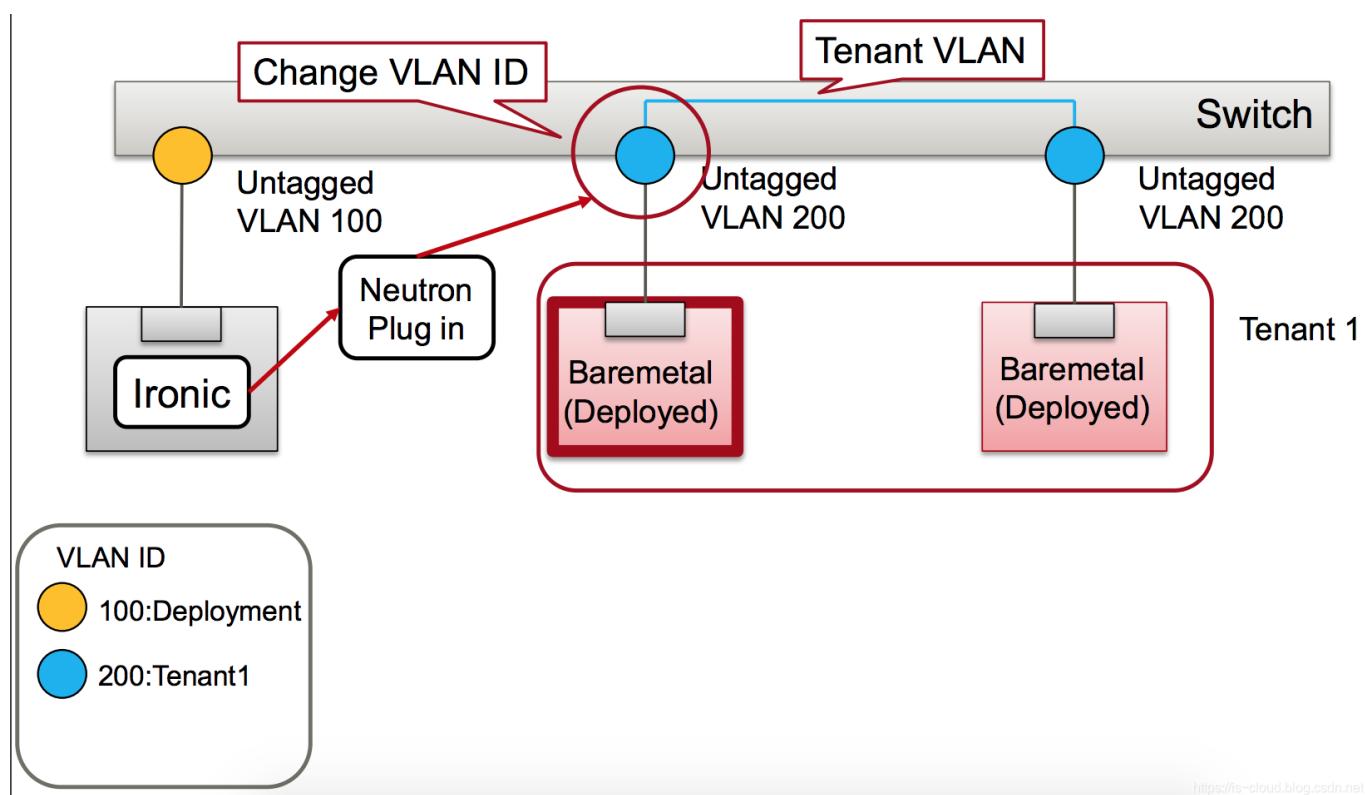
- DHCP
- TFTP

- - 3. : “ ”
    - (e.g. VM, SNAT, DNAT )
    - Ironic

Ironic-conductor

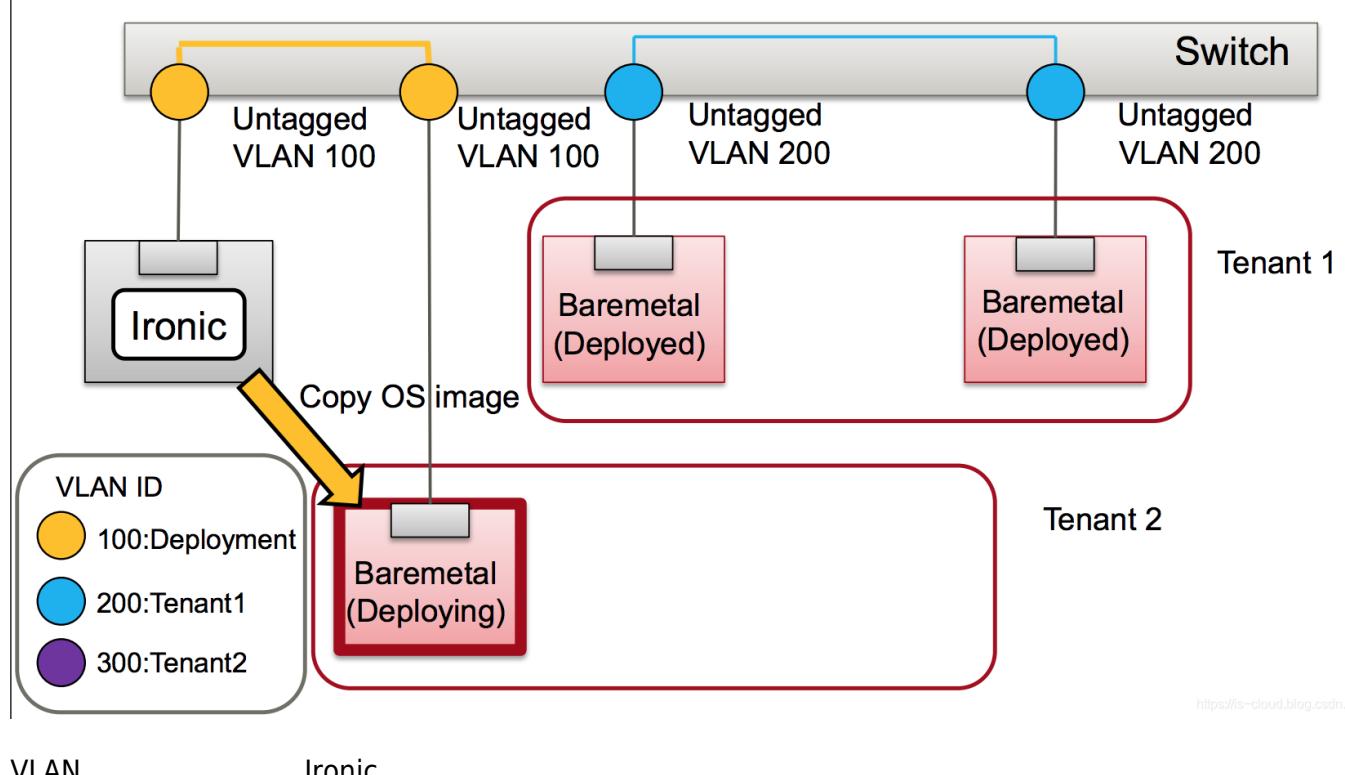
#### 4. Cleaning: 1





https://is-cloud.blog.csdn.net

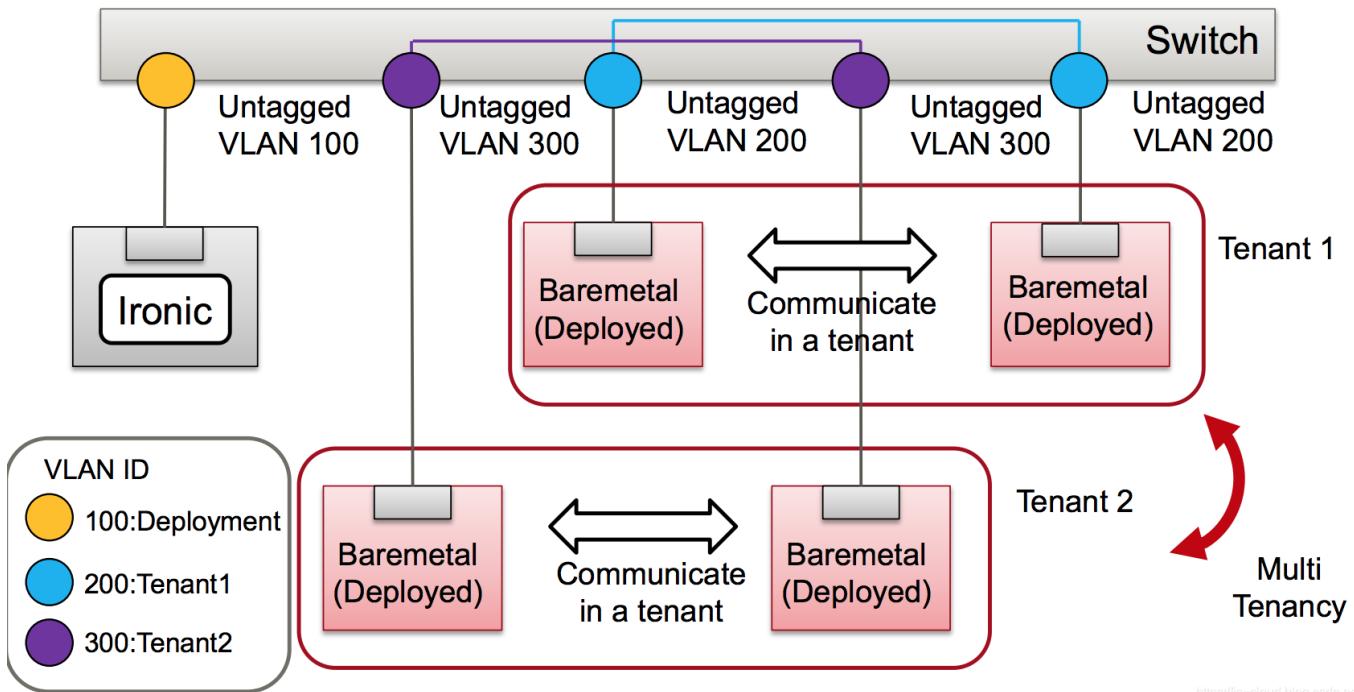
### Provisioning VLAN



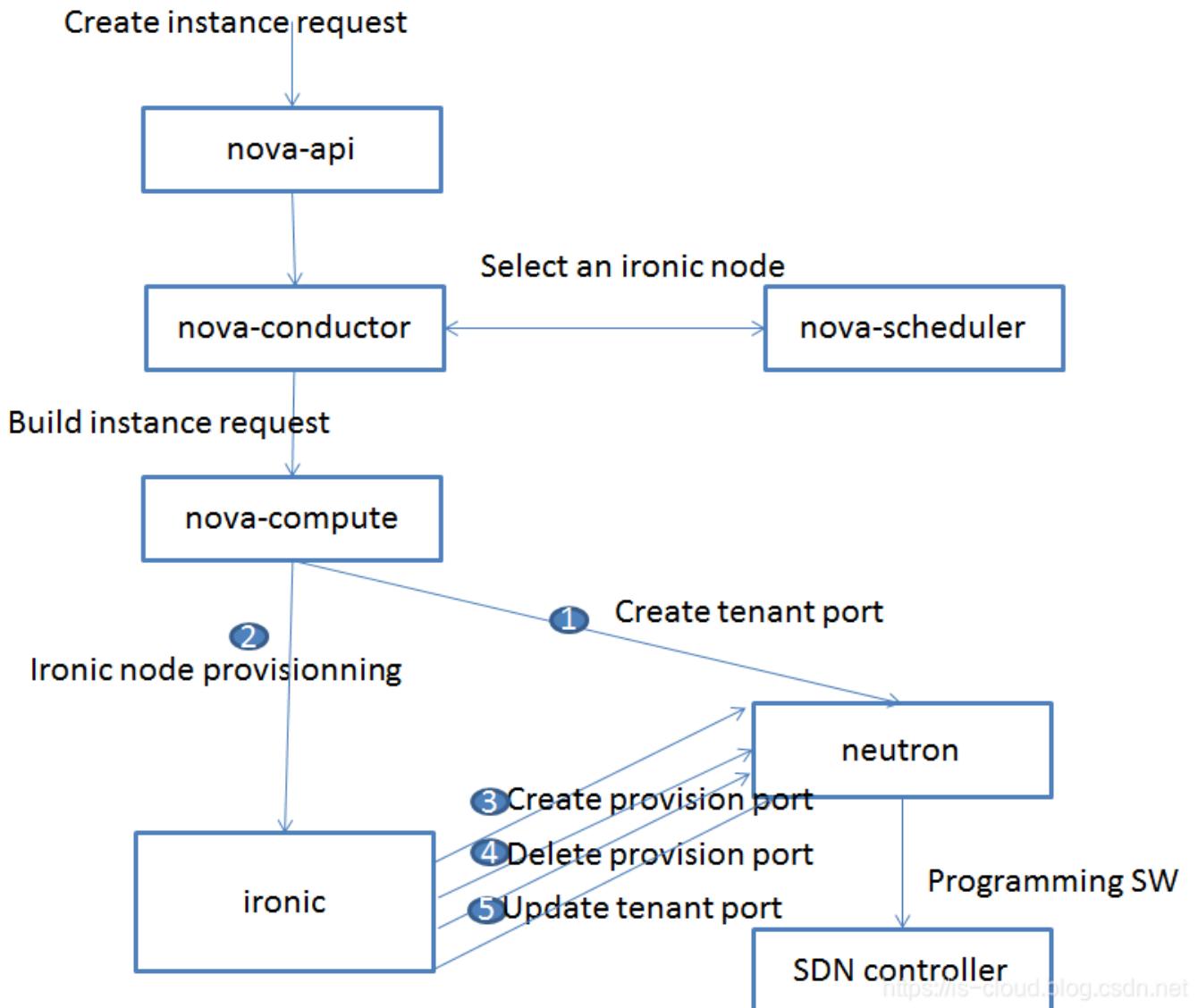
https://is-cloud.blog.csdn.net

VLAN

Ironic



## SDN



## 3. Tenant Port 가입

### • Tenant Port    Ironic Port

가

## Port Group

## Port Group

Port      Port Group      MAC  
Port      Port Group

Port Group  
Port Group MAC  
Port

Ironc Port MAC  
Ironc  
MAC  
가

- ## 1 nova-compute Ironic API

1. nova-compute ironic API
  2. ironic-api가 Ring HASH  
    ironic-conductor  
    ironic-conductor

- ### 3. ionic-conductor

11 DB

## Provision Port

- SDR

LDRB

21

4. 가 , ironic-conductor  
5. ironic-conductor Port Group

## Provision Port

## Ironic Port LLDP

## Tenant

**Port****SDN****LLDP**

가

- <https://www.cnblogs.com/jmilkfan-fanguiju/p/11825061.html>
- [linuxconjapan2015-shiina.pdf](#)

From: <https://atl.kr/dokuwiki/> - AllThatLinux!

Permanent link:

[https://atl.kr/dokuwiki/doku.php/ironic\\_%EB%B2%A0%EC%96%B4%EB%A9%94%ED%83%88\\_%EA%B4%80%EB%A6%AC\\_%EC%84%9C%EB%B9%84%EC%8A%A4%EC%9D%98\\_%EB%84%A4%ED%8A%88%EC%9B%8C%ED%81%AC\\_%EB%AA%A8%EB%8D%BB](https://atl.kr/dokuwiki/doku.php/ironic_%EB%B2%A0%EC%96%B4%EB%A9%94%ED%83%88_%EA%B4%80%EB%A6%AC_%EC%84%9C%EB%B9%84%EC%8A%A4%EC%9D%98_%EB%84%A4%ED%8A%88%EC%9B%8C%ED%81%AC_%EB%AA%A8%EB%8D%BB)

Last update: 2024/10/11 06:55

