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ironic\_

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# Ironic

## Neutron

Ironic (VM) OpenStack API Neutron 가 가 . “ ”

가 (VM) , Ironic Neutron ml2 가 가

## Cleaning Network

**Cleaning Network:** (clean) “ ” 가

가 provider-VLAN . VLAN

## Provisioning Network

**Provisioning Network:** ( , , PXE )

가 Provisioning Cleaning , Ironic .)

가 provider-VLAN

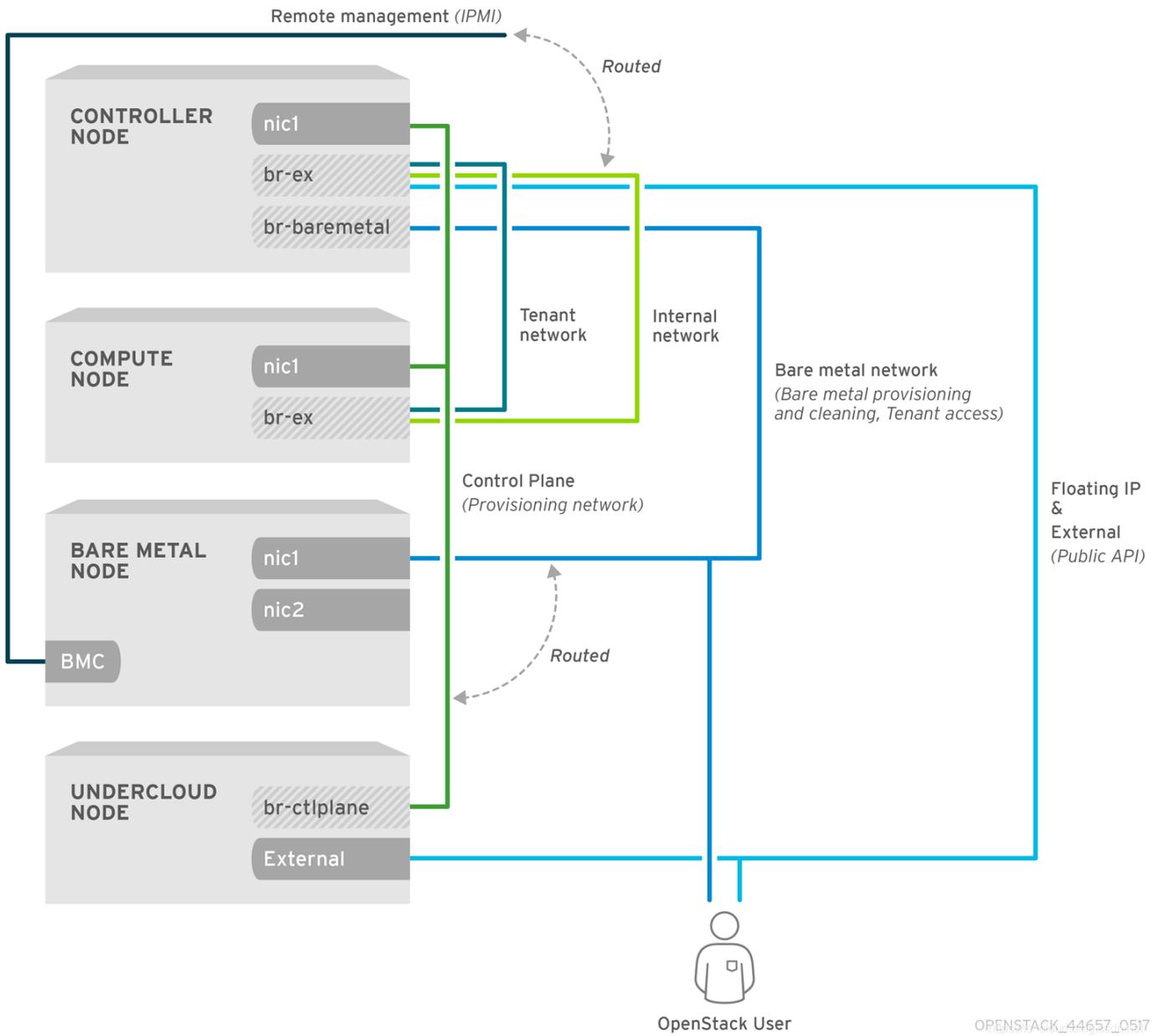
- 가 Neutron
- Ironic VLAN
- VLAN

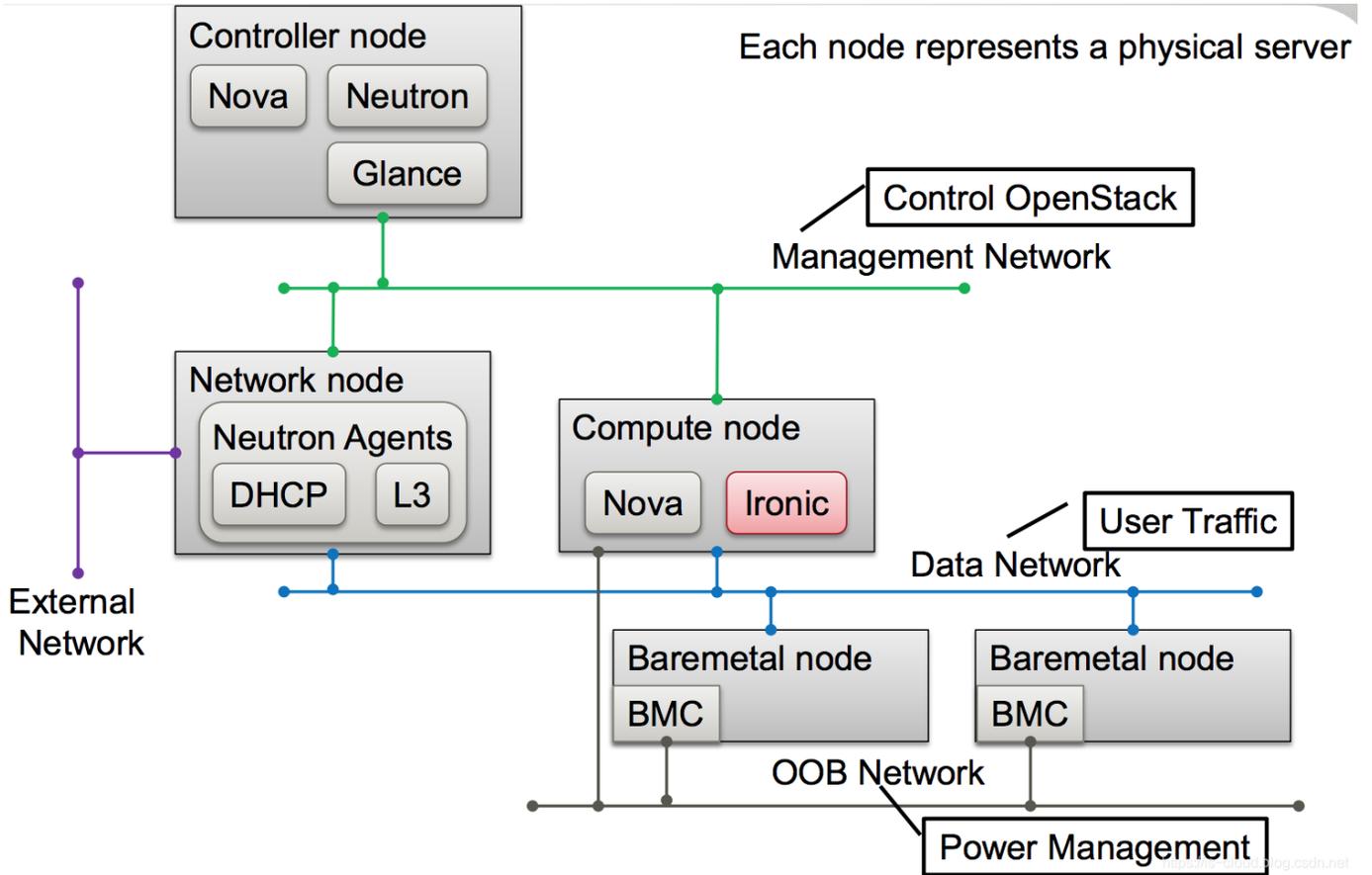
## Tenant Network

**Tenant Network:** “ ” ,

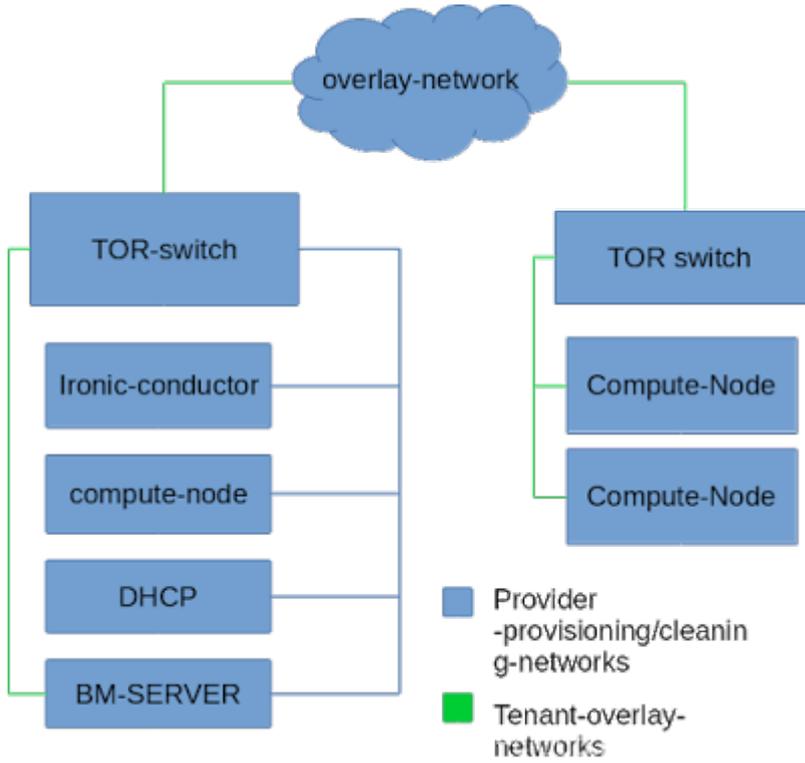
가 . ( .)

- 가 Neutron
- VLAN





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



- **Tenant Network:** “ ”
- **Provider Networks:** ,
- **Ironic Conductor:** “ ” Ironic , PXE TFTP
- **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 ):** 가 PXE DHCP TFTP 가 . Ironic (Neutron extra\_dhcp\_opt ). Neutron DHCP PXE DHCP

## Neutron

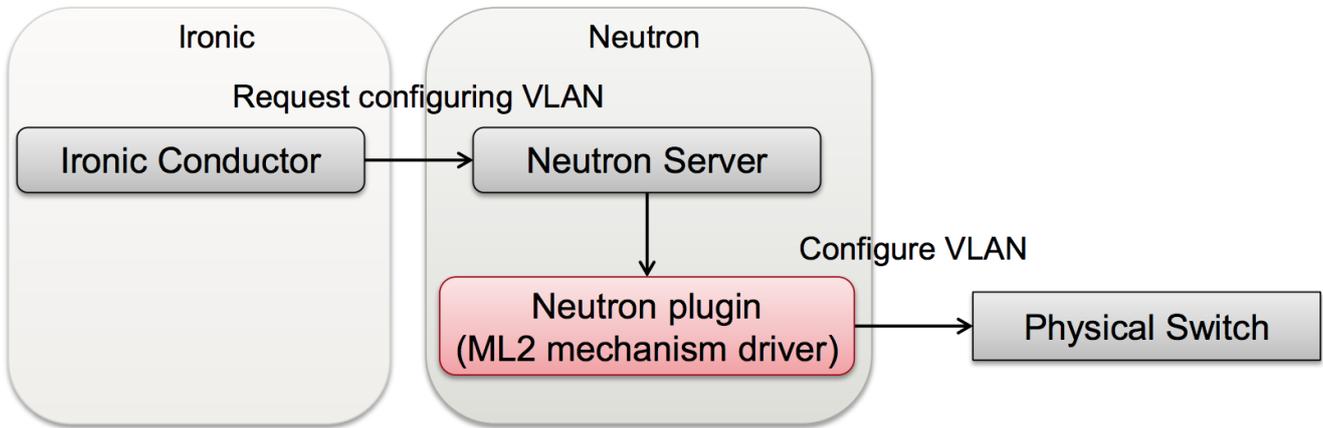
**Neutron** : Ironic Neutron “ ”  
 (lport) , 가 Neutron 가 : Neutron

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

Neutron

lport

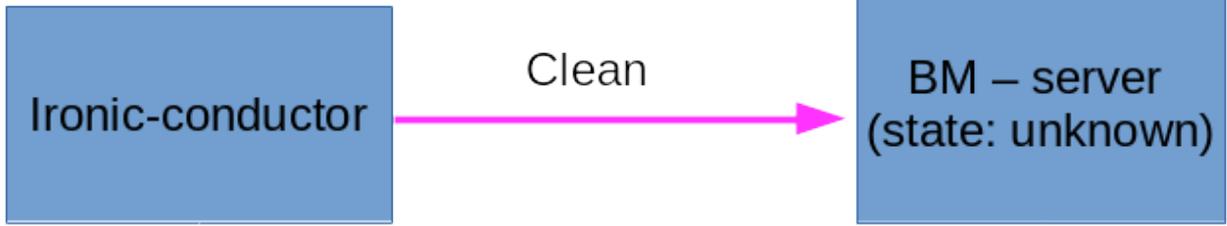
**DHCP** : Ironic Neutron ( : extra\_dhcp\_option DHCP가 PXE DHCP가 TFTP DHCP ). Neutron ML2



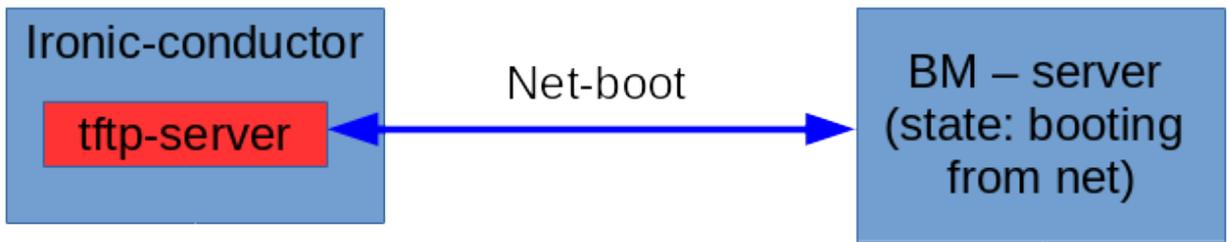
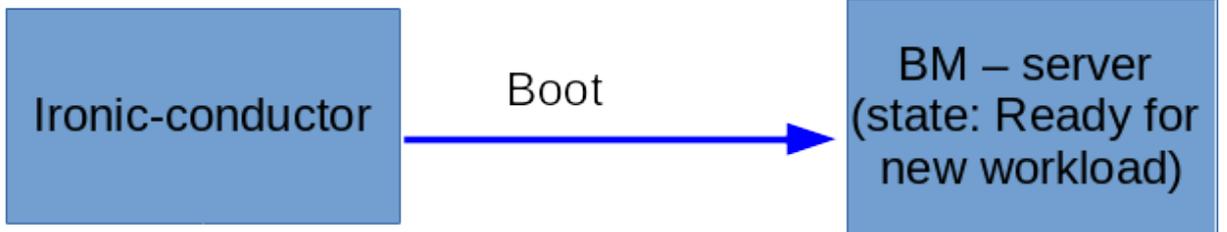
<https://is-cloud.blog.csdn.net>

- Neutron VLAN
- ML2

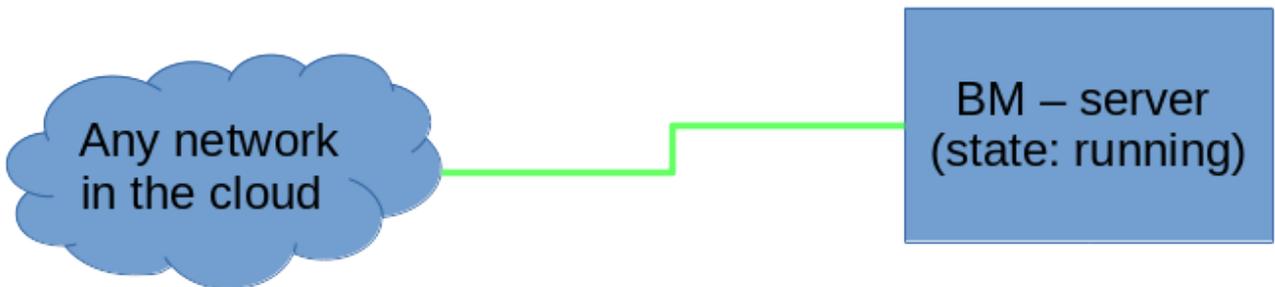
### Cleaning:



### Provisioning:



### Connect to tenant network :



### Cleaning:

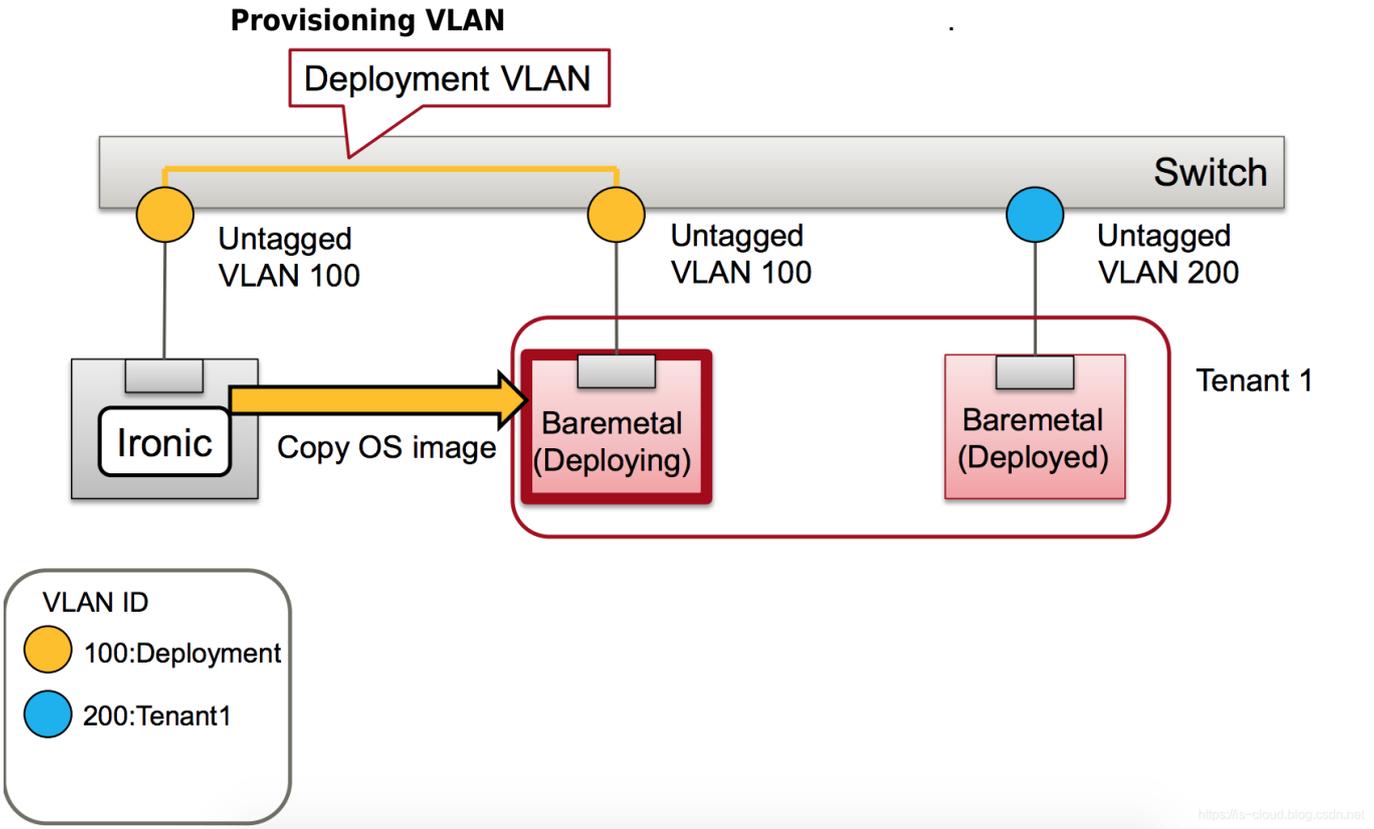
Beck to first step

- cleaning-network
- Provision network
- Tenant network

1. **Cleaning:** ( )
2. **Provisioning:** Ironic-conductor ( IPMI )
  - DHCP TFTP
  - TFTP

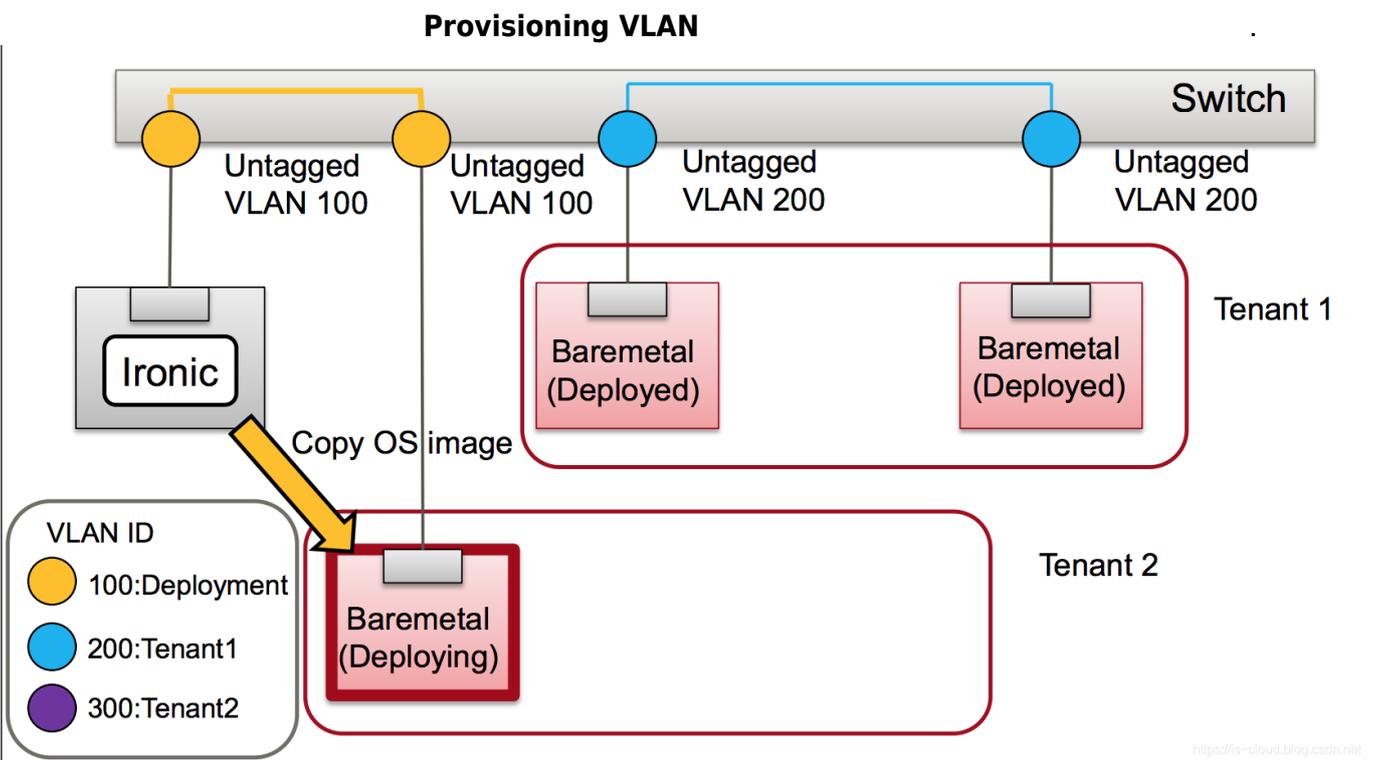
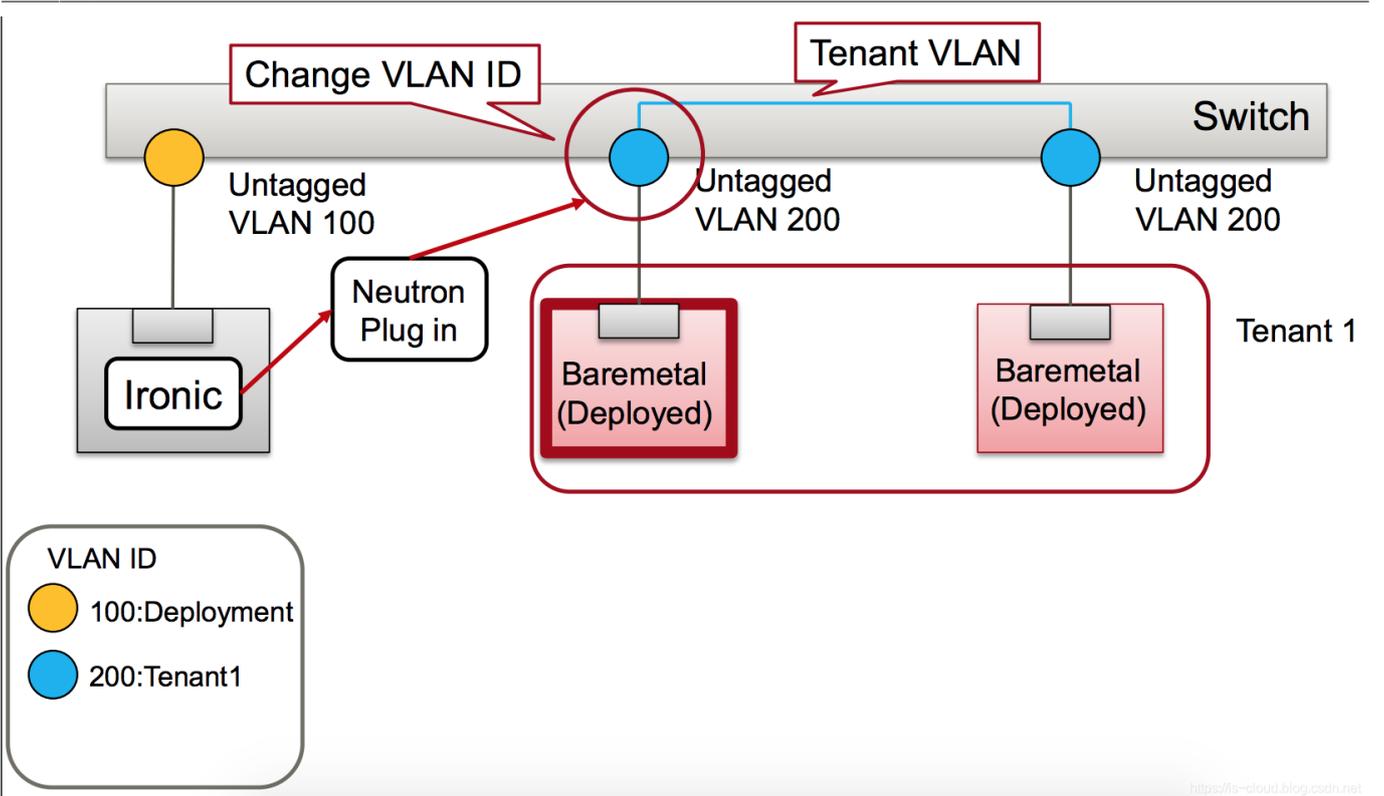
3. : “ ” 가  
 (e.g. VM, SNAT, DNAT )  
 ○ Ironic  
 Ironic-conductor

4. **Cleaning:** 1 ...



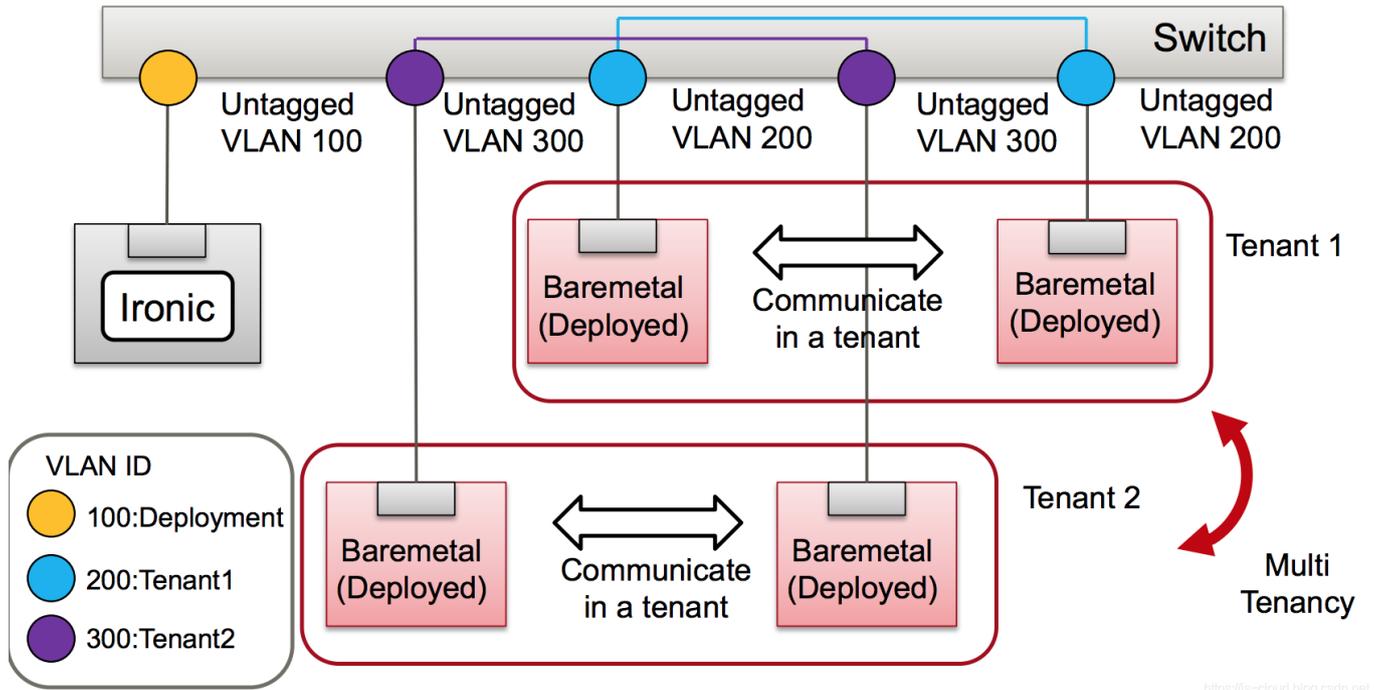
가 , Ironic VLAN ID

가 VLAN



VLAN

Ironic



# SDN



**Port**

**SDN**

**LLDP**

가

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

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