

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

ironic\_

Last  
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2024/10/11  
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# Ironic

## Neutron

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

## Cleaning Network

**Cleaning Network:** (clean) “ ” 가  
가 provider-VLAN . VLAN .

## Provisioning Network

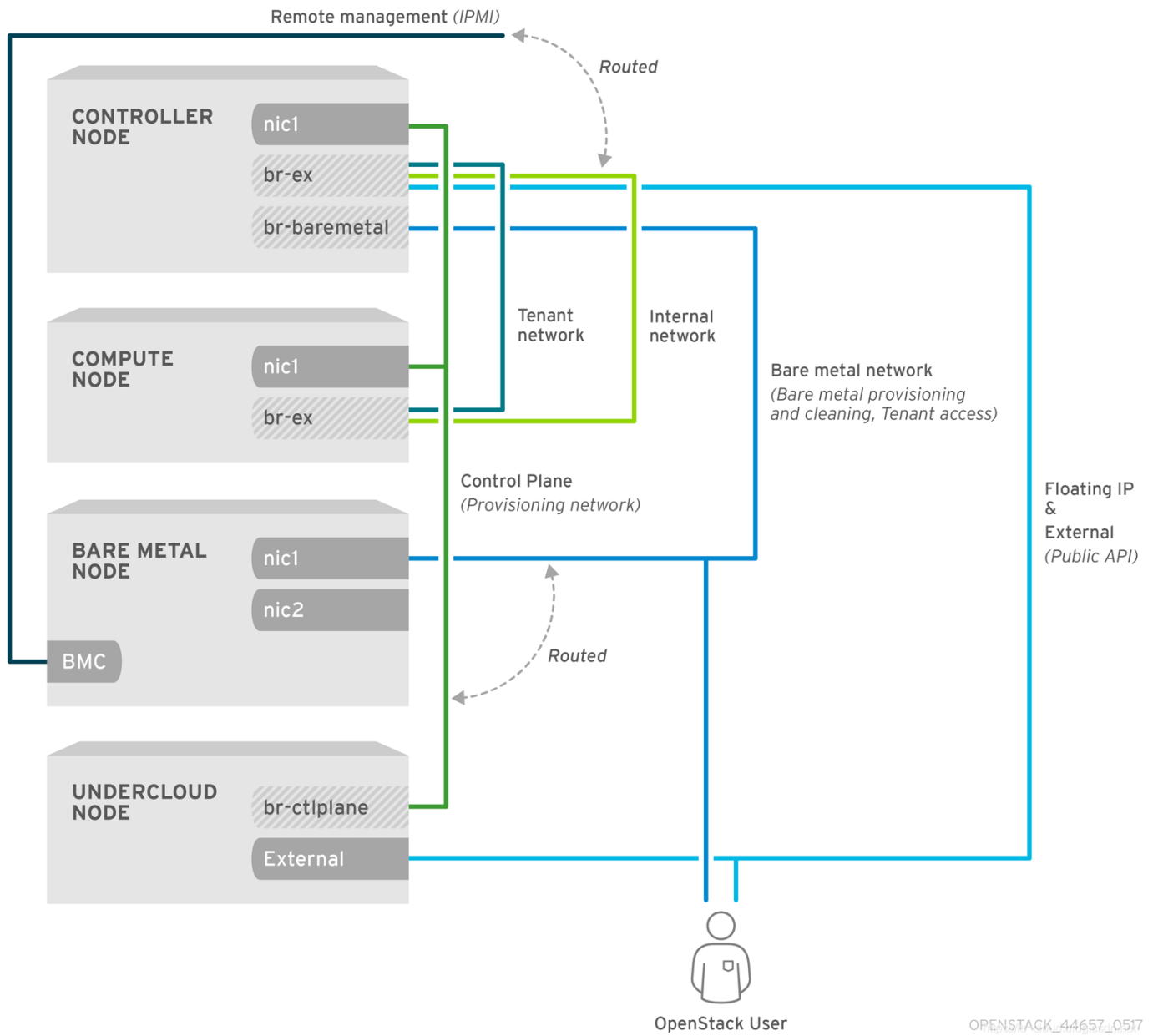
**Provisioning Network:** ( , , PXE )  
provider-VLAN . ( Provisioning Cleaning , Ironic . )

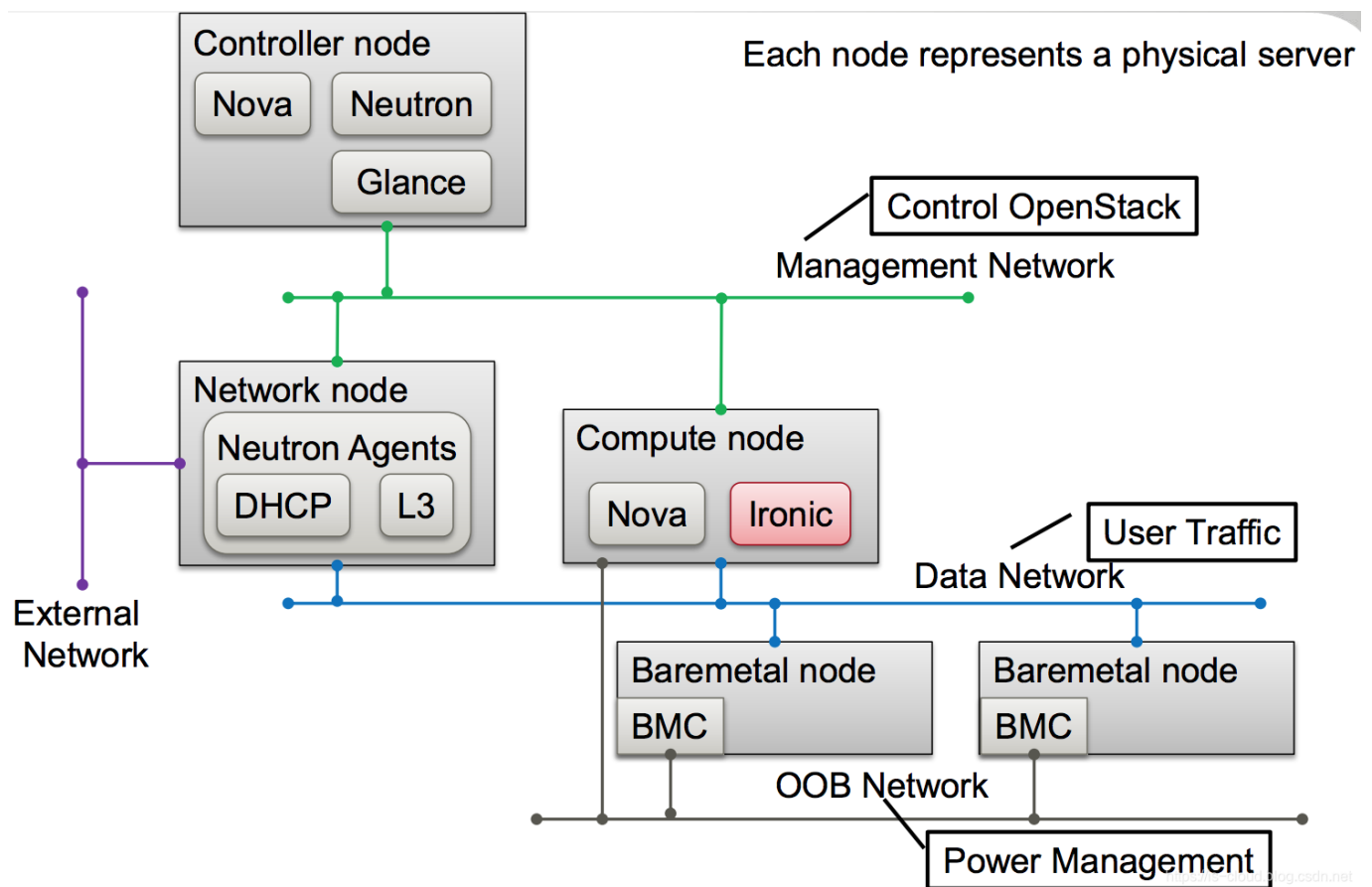
- 가 Neutron
- Ironic VLAN
- VLAN

## Tenant Network

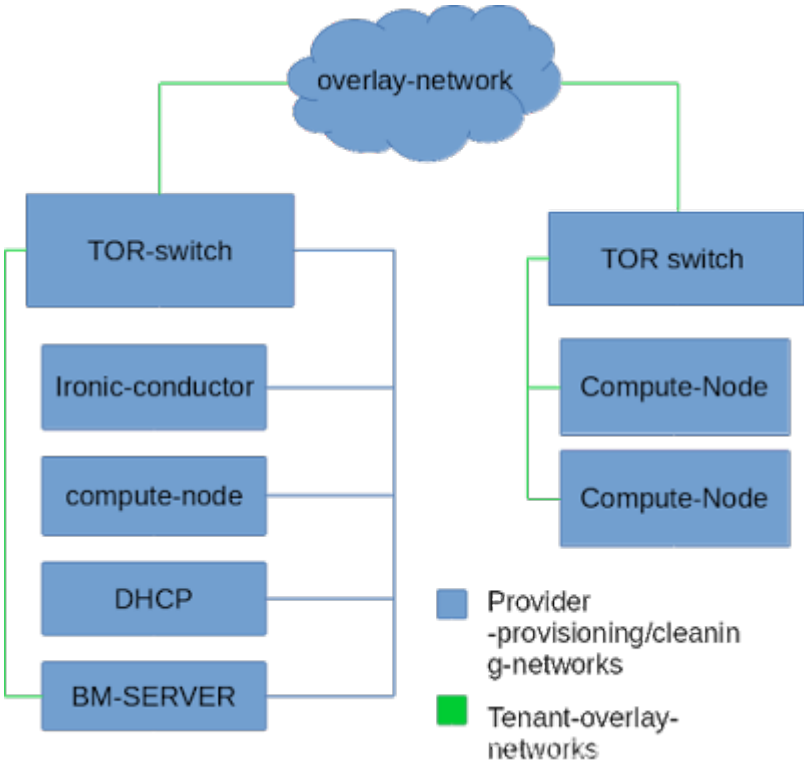
**Tenant Network:** “ ” ,  
가 . ( . )

- 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 PXE DHCP ). Neutron DHCP

## Neutron

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

• **local\_link\_information:**

lport

binding-profile

,

Neutron

가

TOR

:

◦ **switch\_id:**

가

.

MAC

OpenFlow

◦ **datapath\_id:**

.

◦ **port\_id:**

.

◦ **switch\_info:**

(

.

)

.

• **port-groups:**

TOR

LAG/BOND

.

Neutron

lport

.

**DHCP**

:

Ironic

Neutron

(

:

extra\_dhcp\_option

TFTP

DHCP

DHCP가 PXE

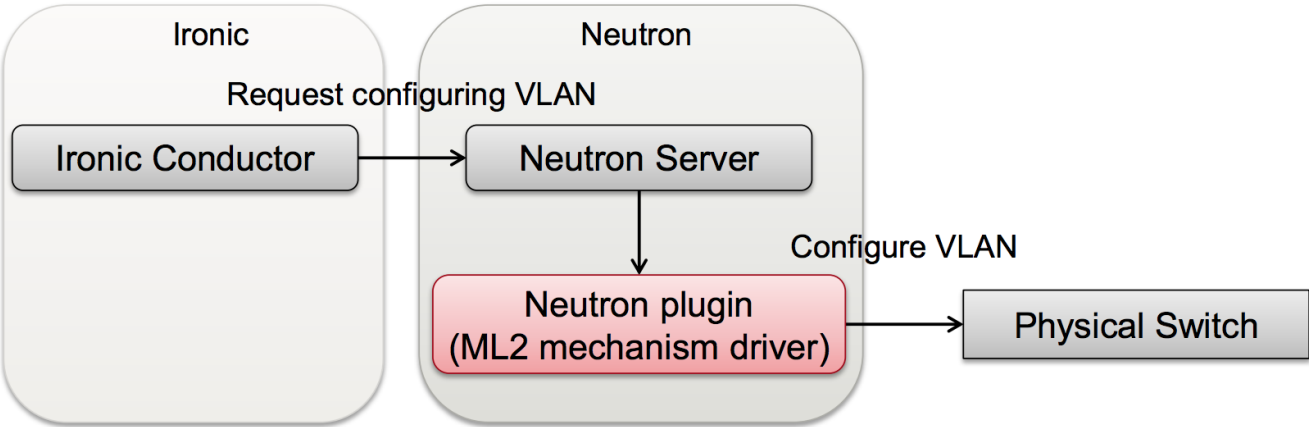
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Neutron ML2

DHCP

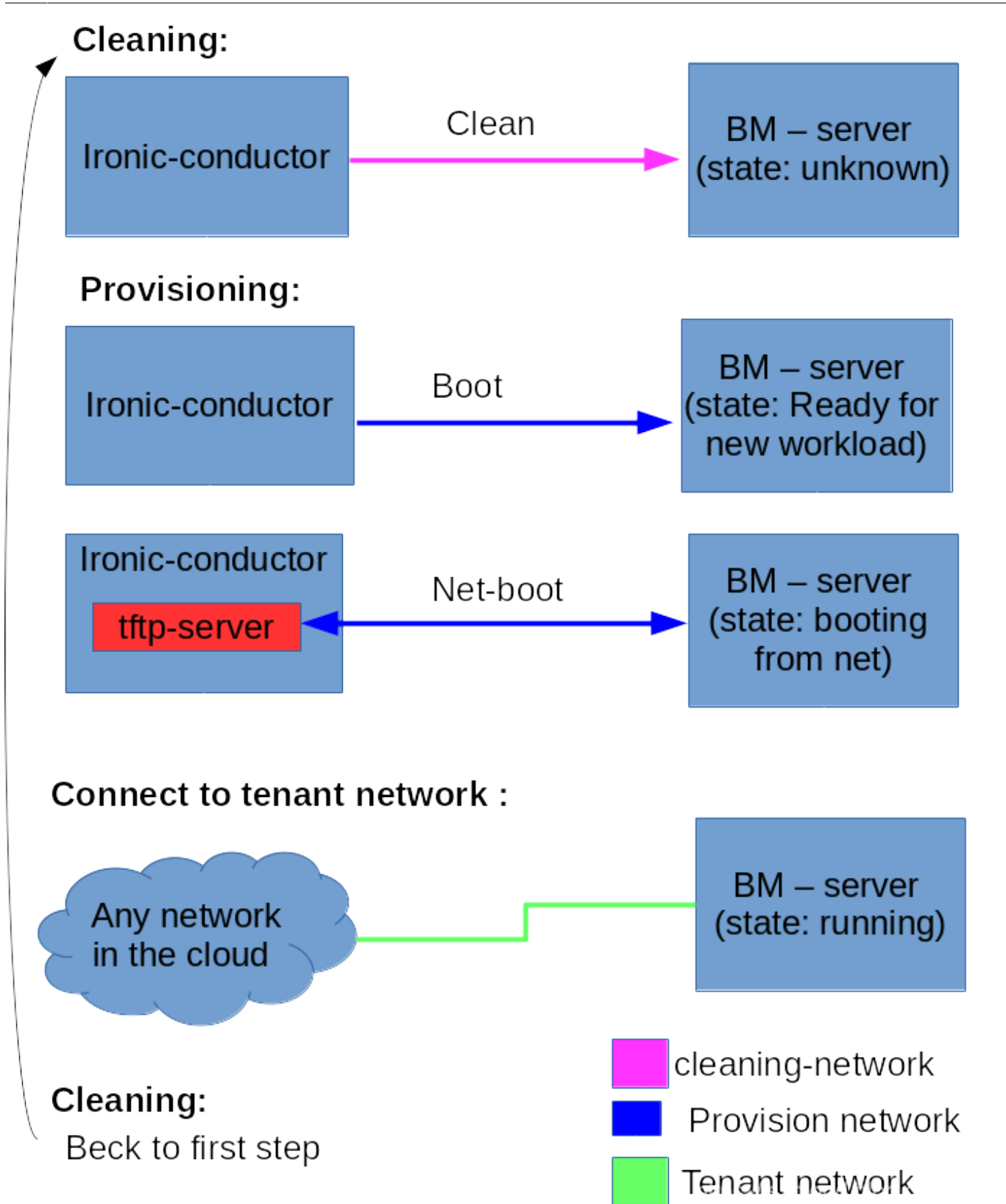
가

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

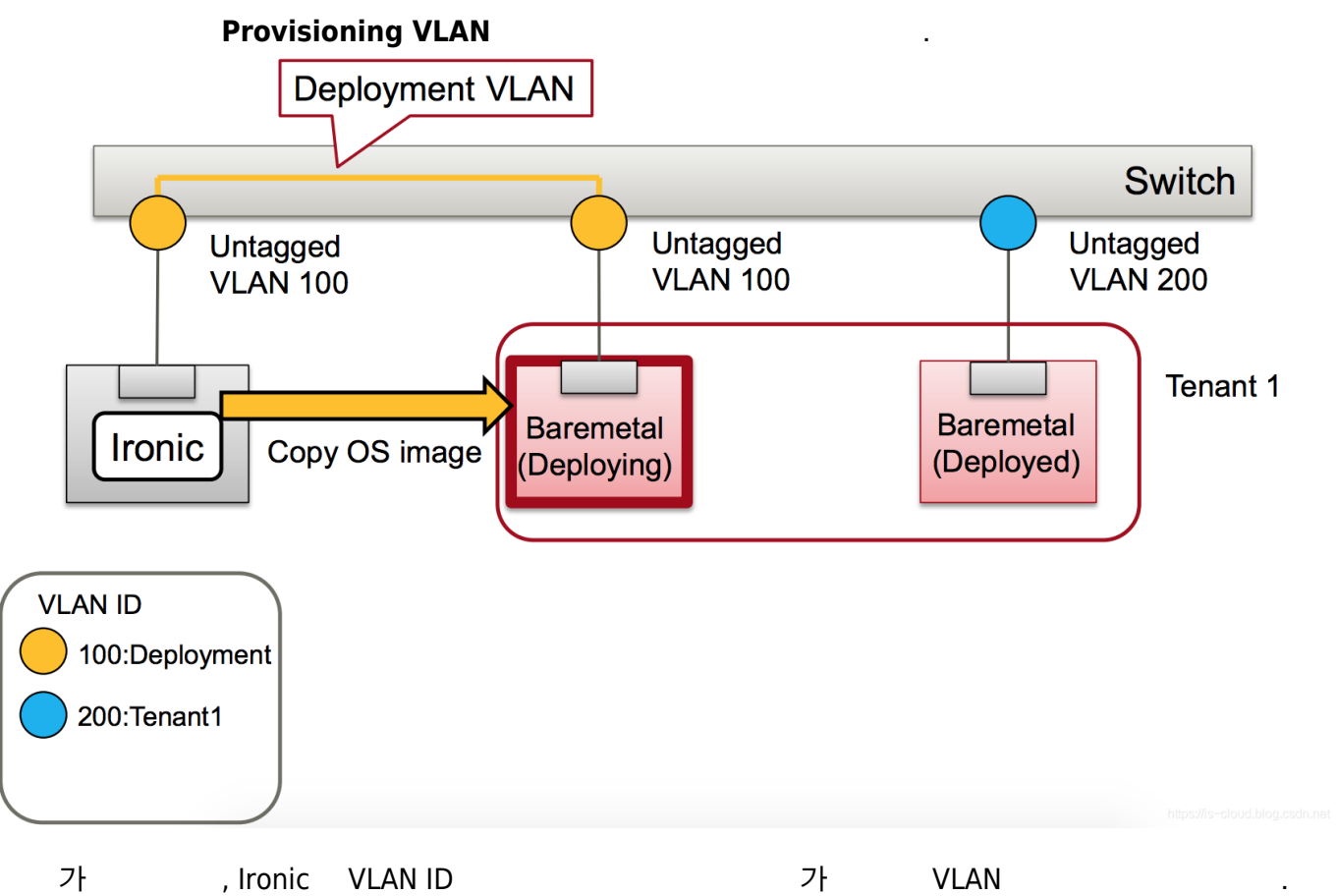
- Neutron
- ML2
- VLAN

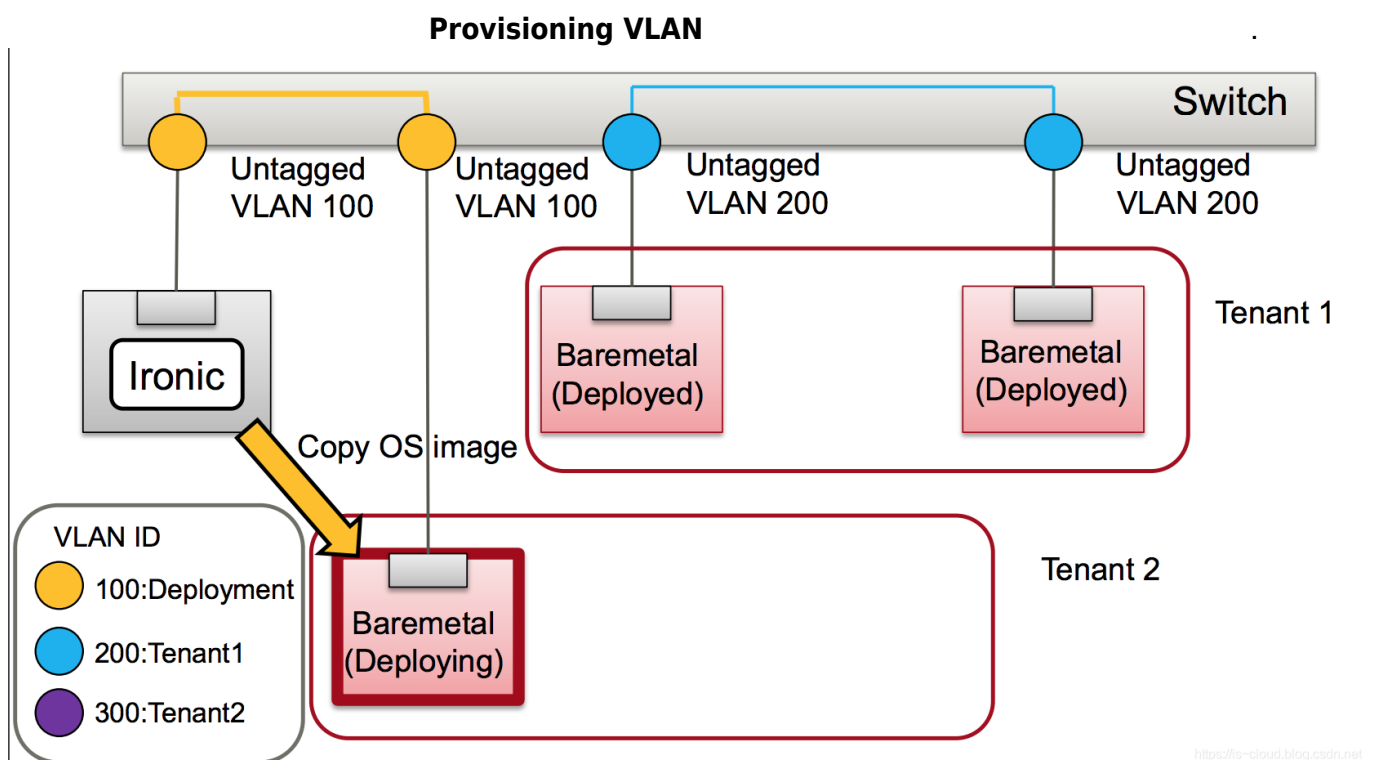
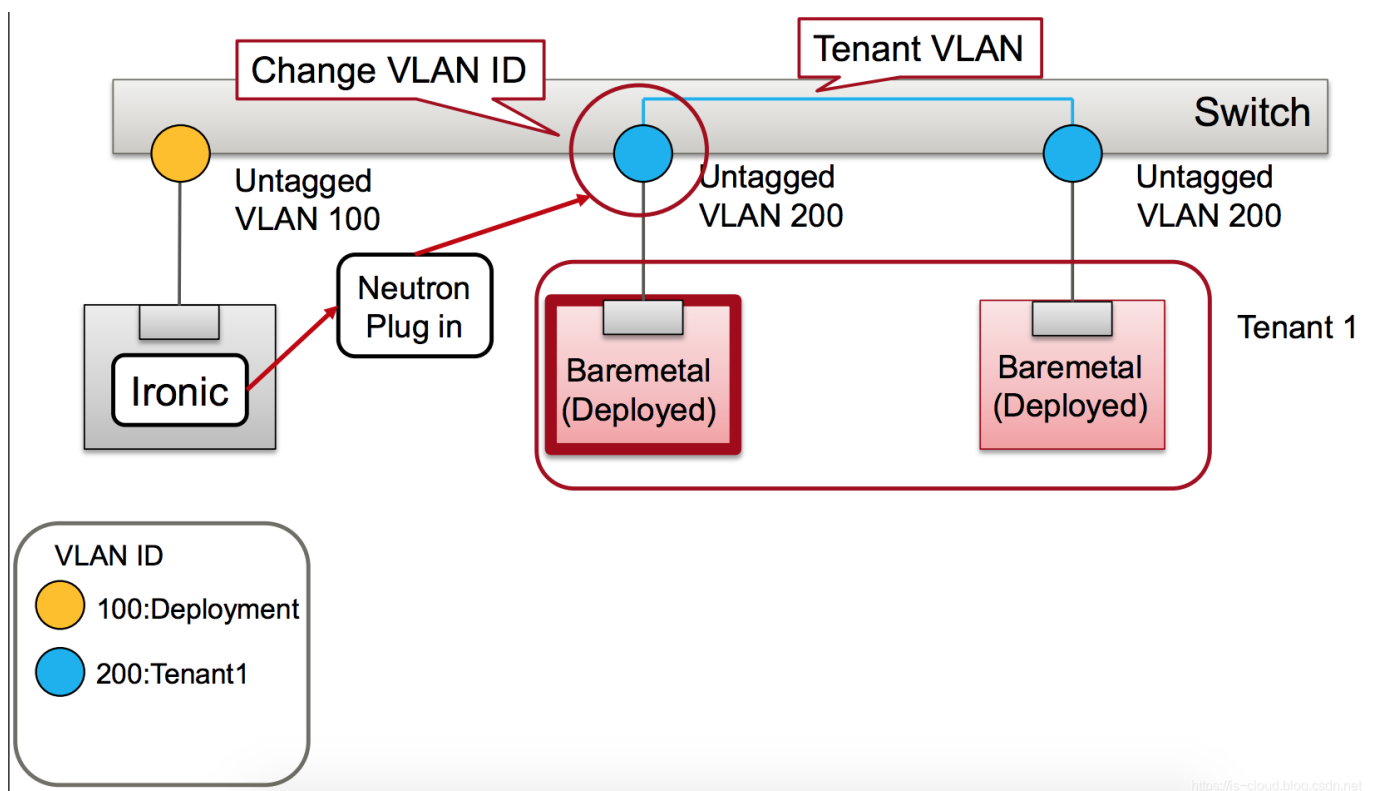


1. **Cleaning:** ( )
2. **Provisioning:** Ironiconductor PXE . PXE IPMI , ( )  
◦ DHCP TFTP  
◦ TFTP



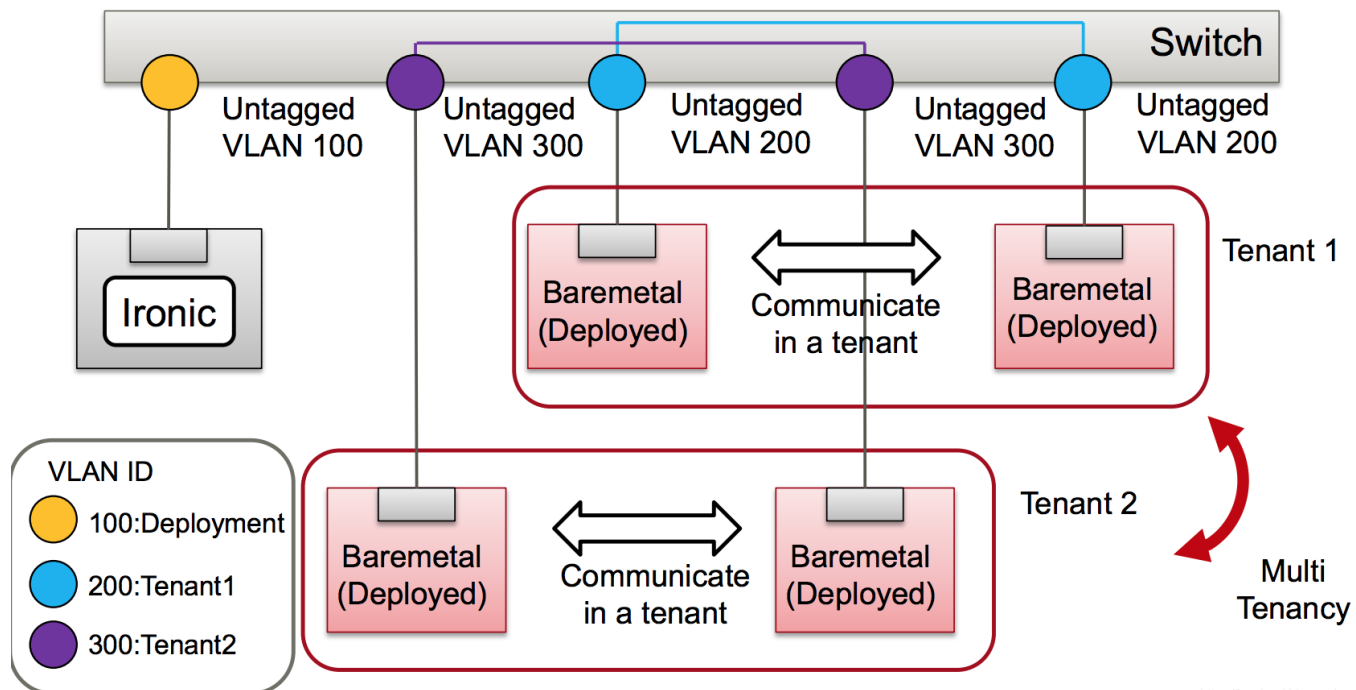
3. : “ ”  
(e.g. VM, SNAT, DNAT )  
o Ironic  
Ironic-conductor
4. **Cleaning:** 1 ...



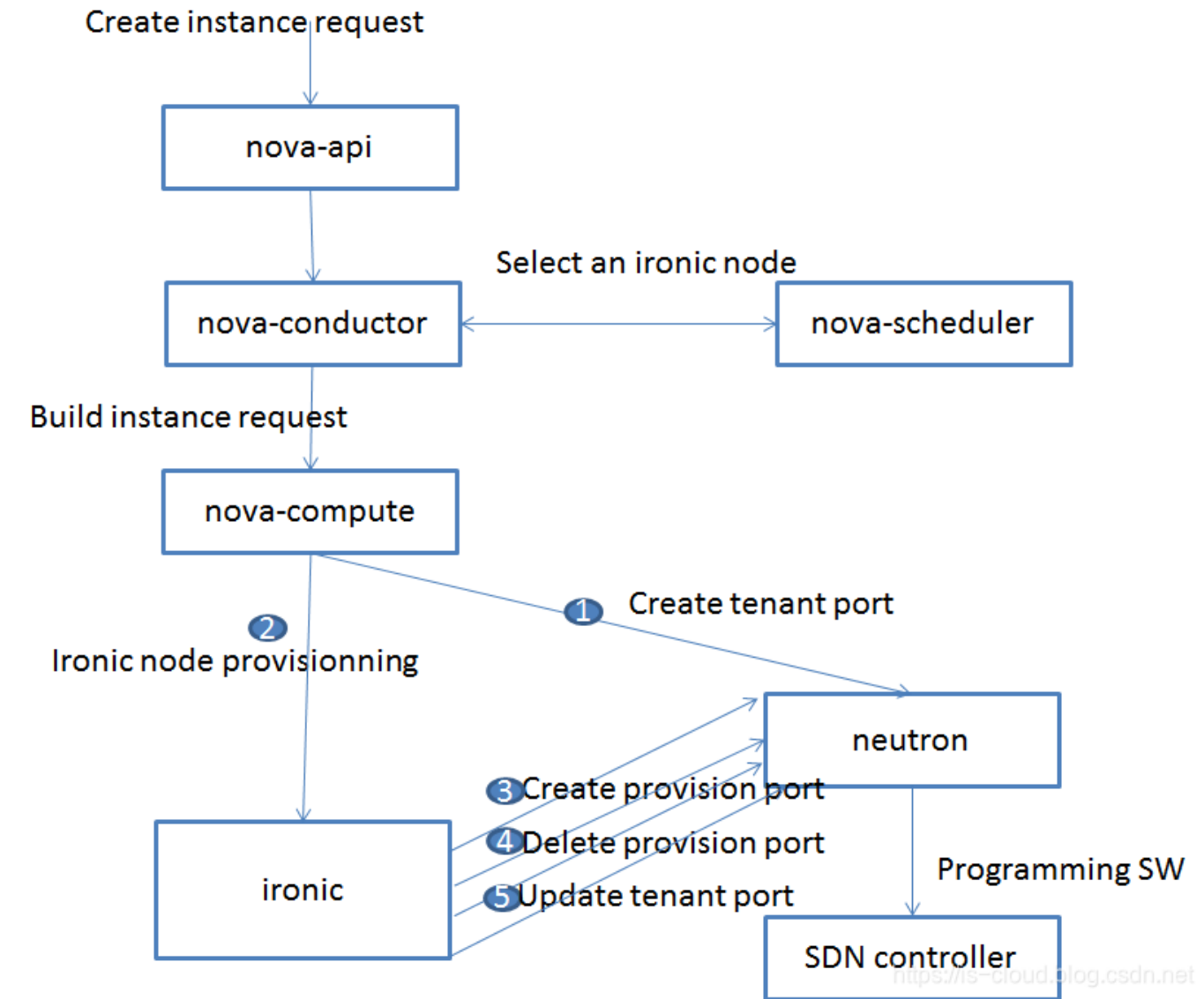


VLAN

Ironic



## SDN



: Tenant Port 가  
 . Tenant Port Ironic Port Port Group Port Group  
 . (Ironic Port) Port Group Ironic Port MAC Ironic  
 , Port Group MAC Ironic Port Group MAC Ironic  
 Port Port Group 가 Port Group 가 Port Group Tenant

1. nova-compute Ironic API

2. ironic-conductor ironic-api가 Ring HASH 가

ironic-conductor  
 ironic-conductor

3. ironic-conductor SDN LLDP LLDP Provision Port

가 , ironic-conductor Provision Port 가

4. 가 , ironic-conductor Provision Port Ironic Port LLDP Tenant  
 5. ironic-conductor Port Group Ironic Port LLDP Tenant

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

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