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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

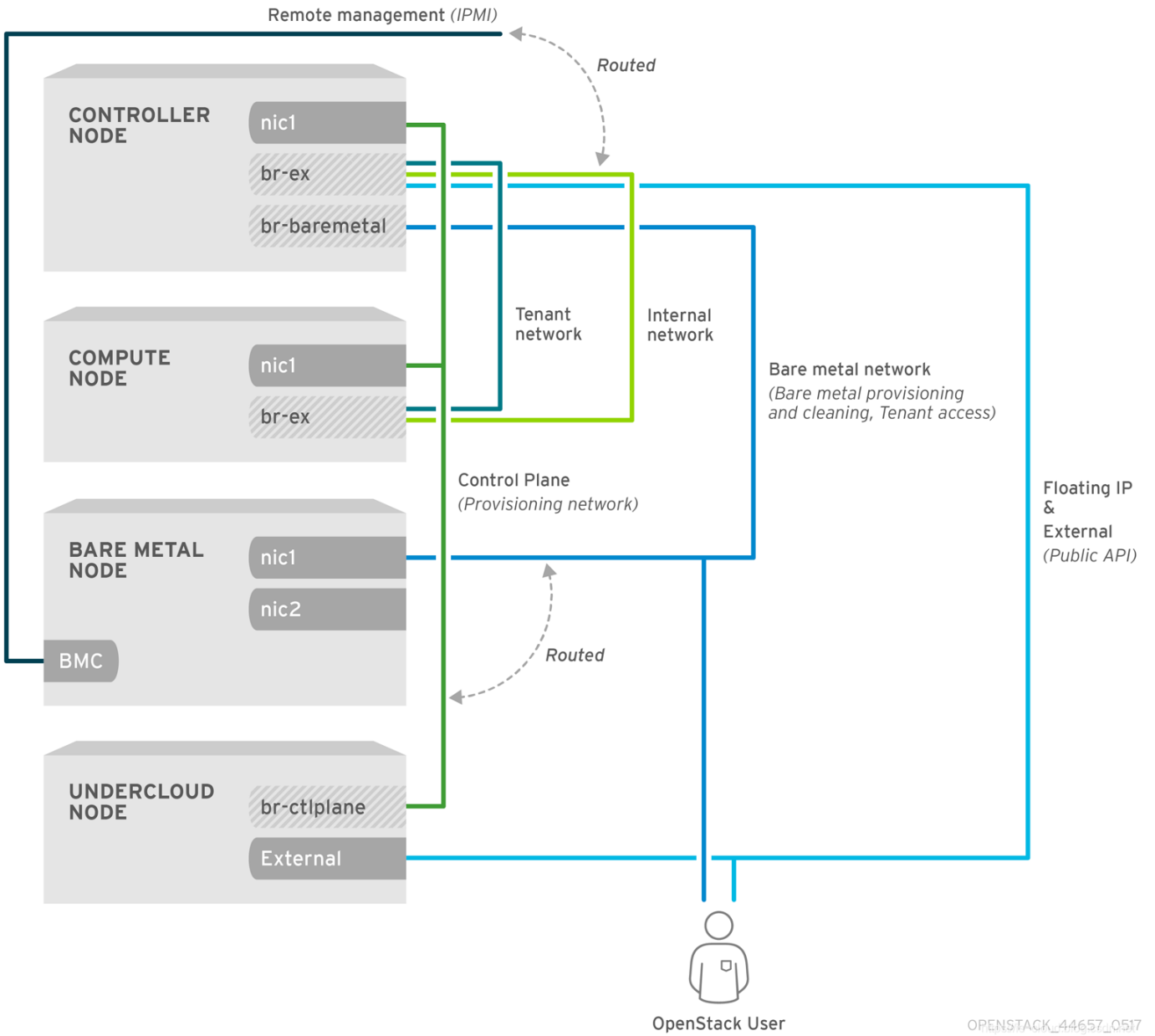
- 가 Neutron
- Ironic VLAN
- VLAN

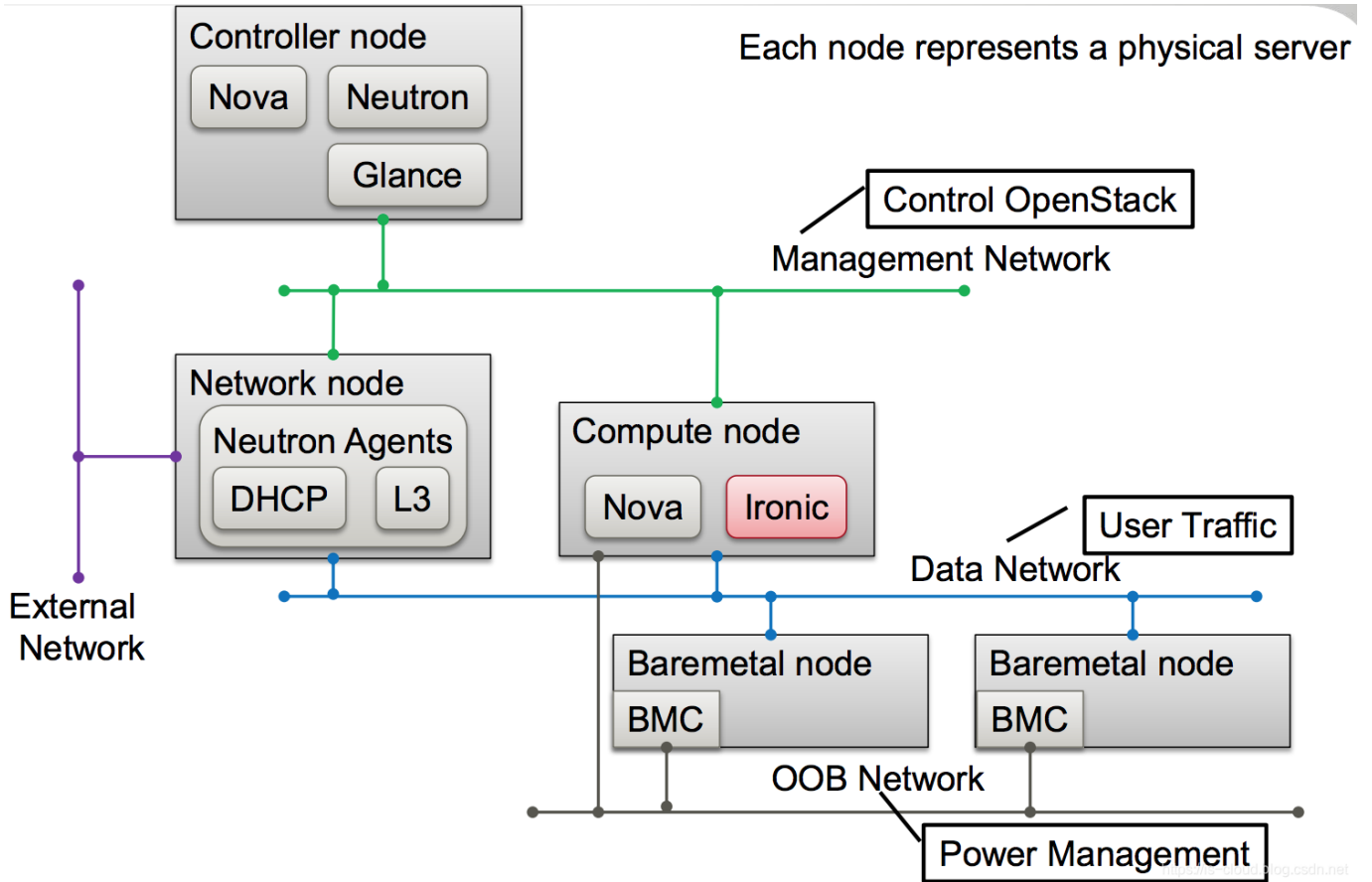
Tenant Network

Tenant Network: “ ” ,

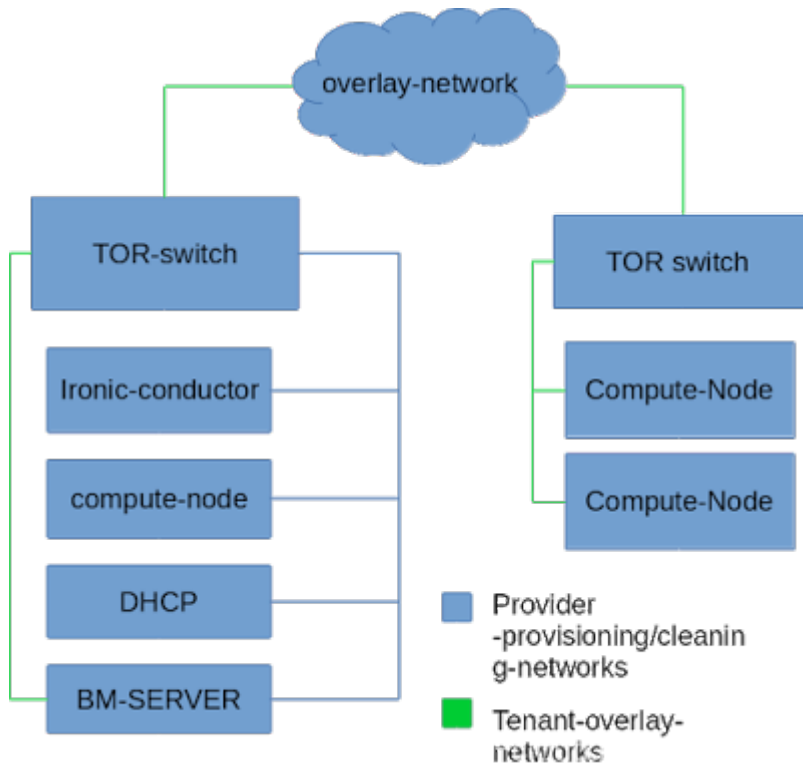
가 . (.)

- 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 Neutron (Neutron extra_dhcp_opt PXE DHCP). Neutron DHCP

Neutron

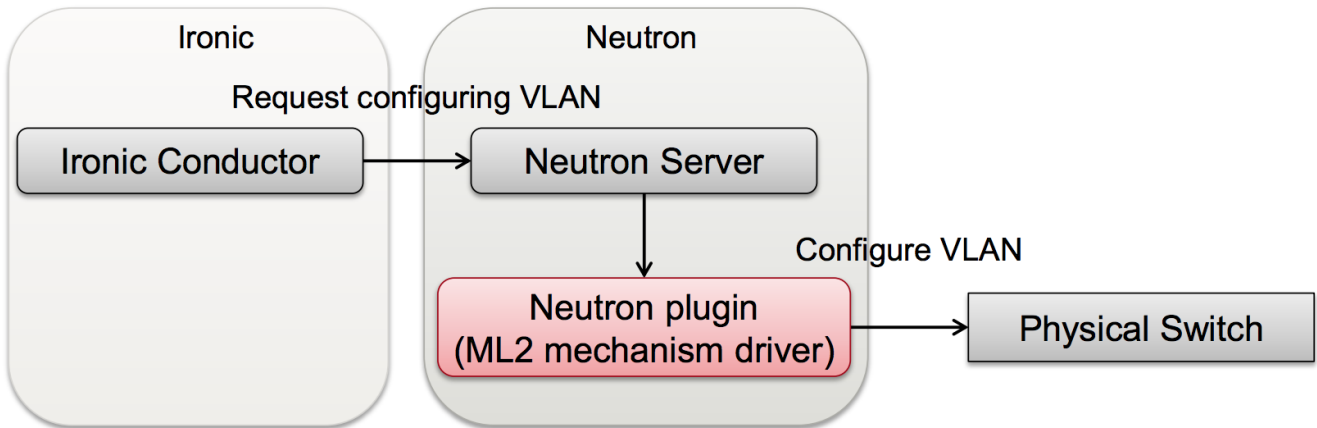
Neutron : Ironic Neutron “ ”
 (lport) , 가 Neutron 가 : Neutron

- **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

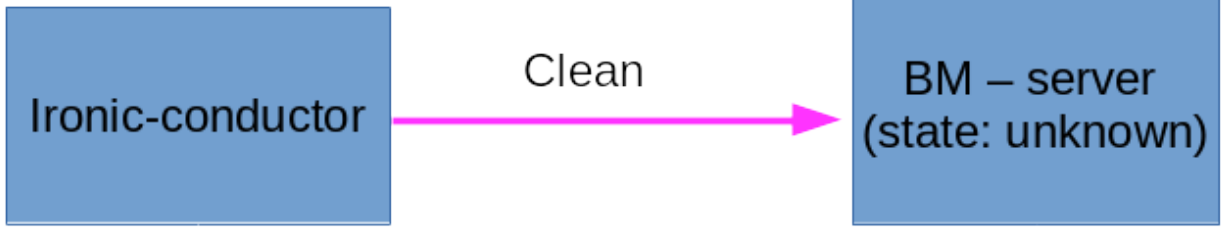
DHCP : Ironic Neutron (: extra_dhcp_option DHCP가 PXE TFTP DHCP). Neutron ML2 DHCP 가



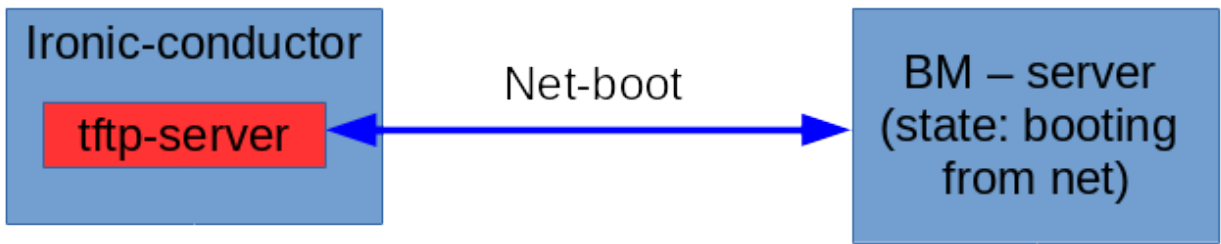
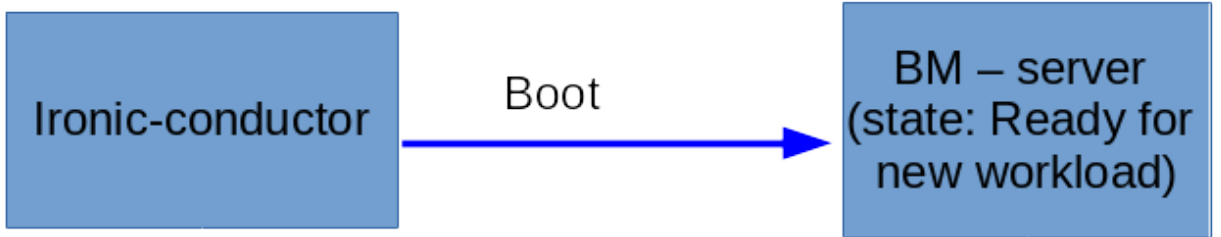
<https://is-cloud.blog.csdn.net>

- Neutron VLAN
- ML2

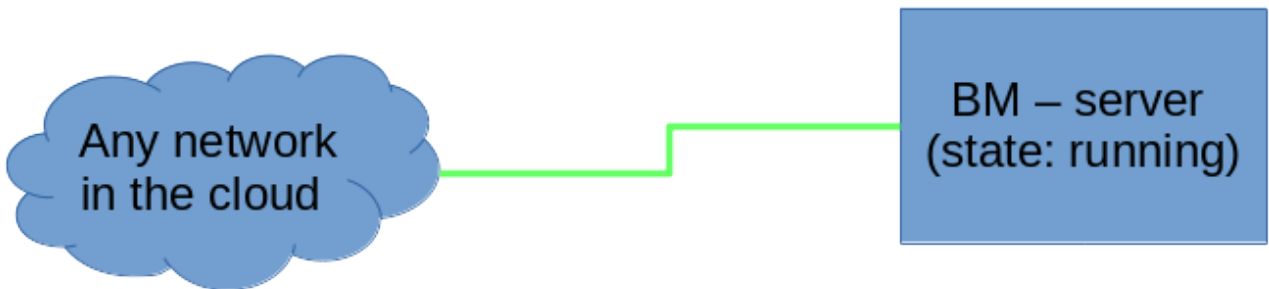
Cleaning:



Provisioning:



Connect to tenant network :



Cleaning:

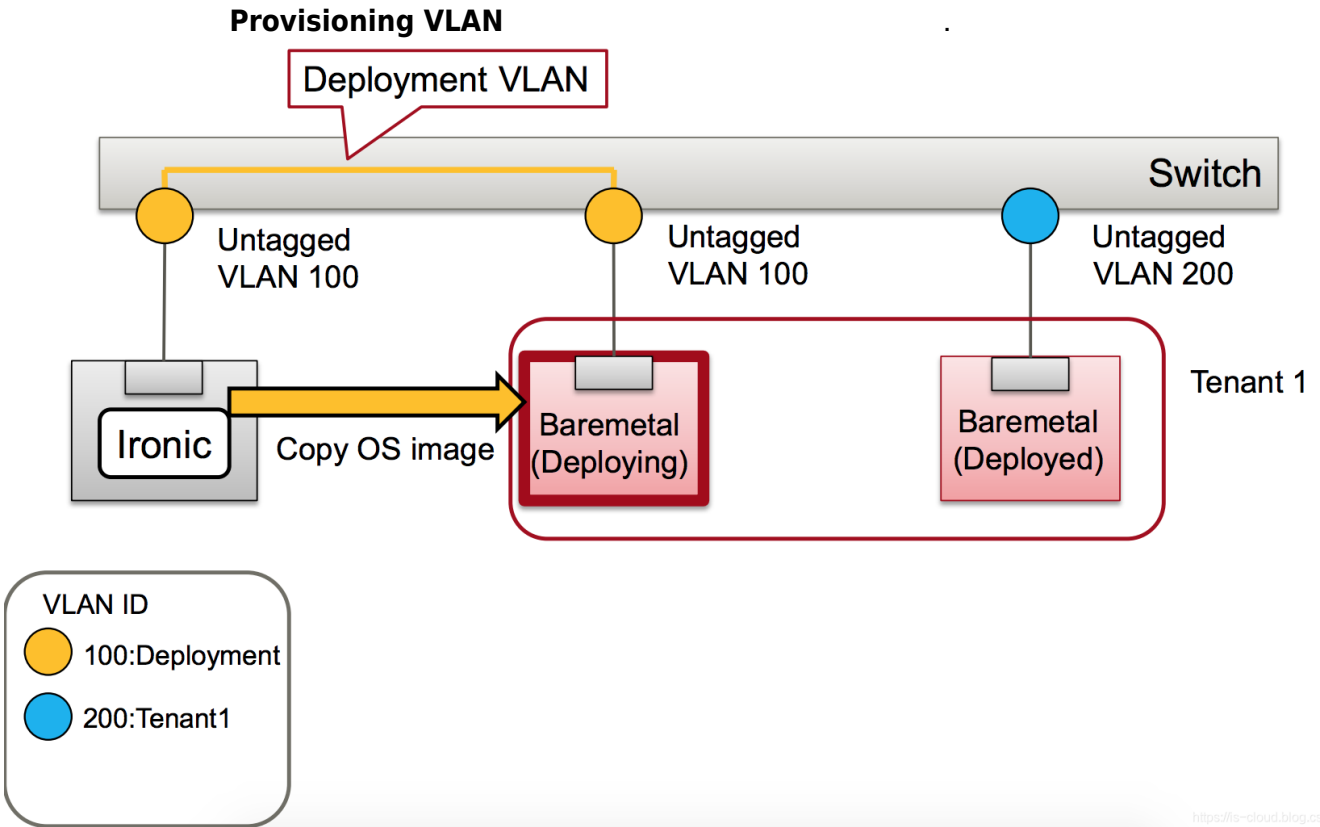
Beck to first step

- cleaning-network
- Provision network
- Tenant network

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

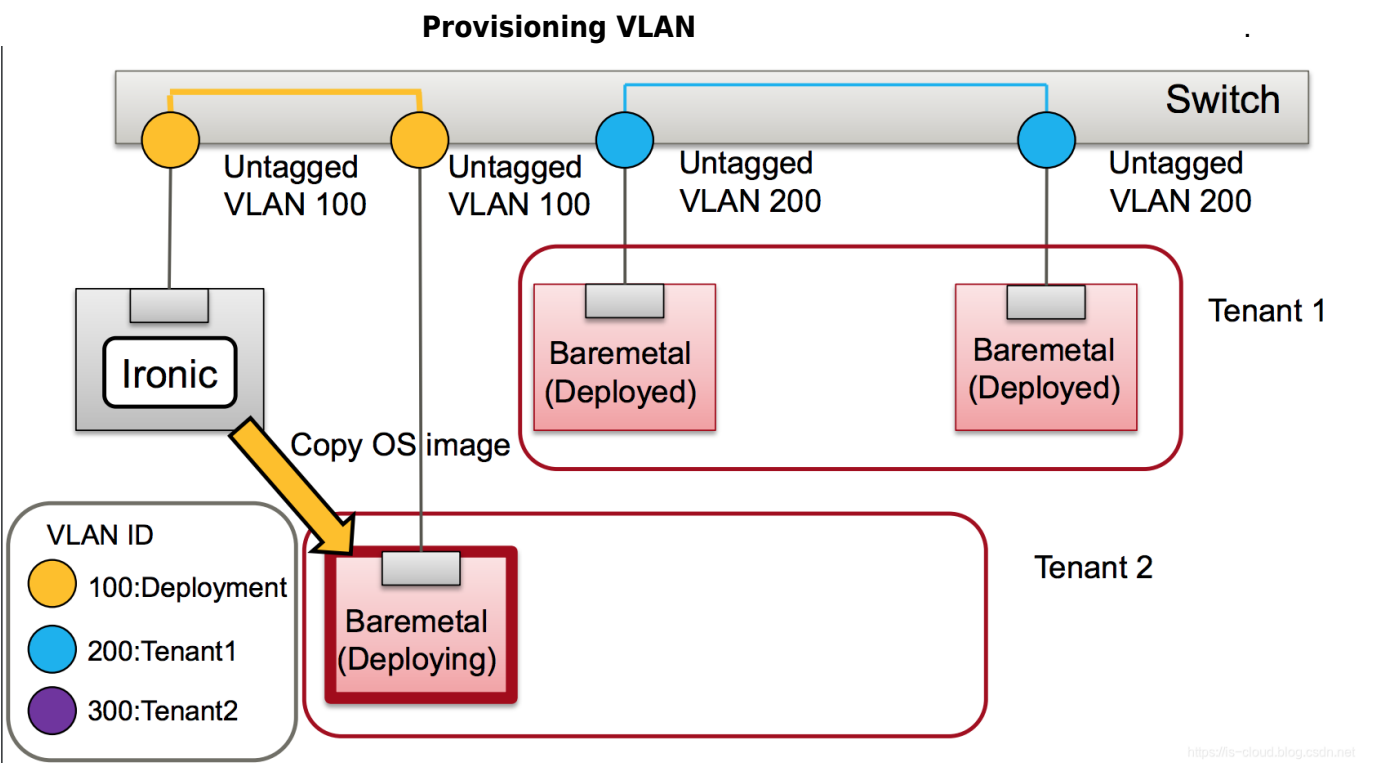
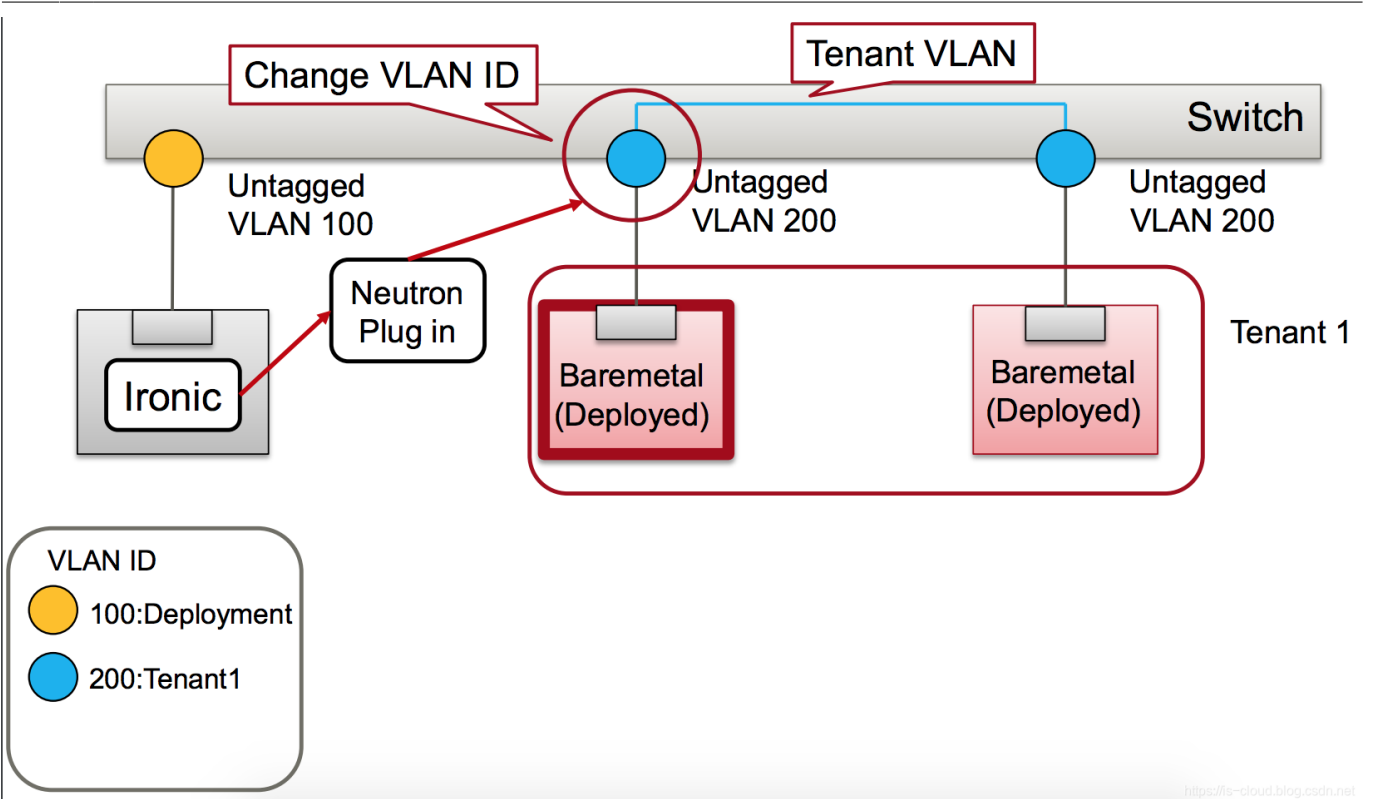
3. : “ ” 가
 (e.g. VM, SNAT, DNAT)
 ○ Ironic
 Ironic-conductor

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



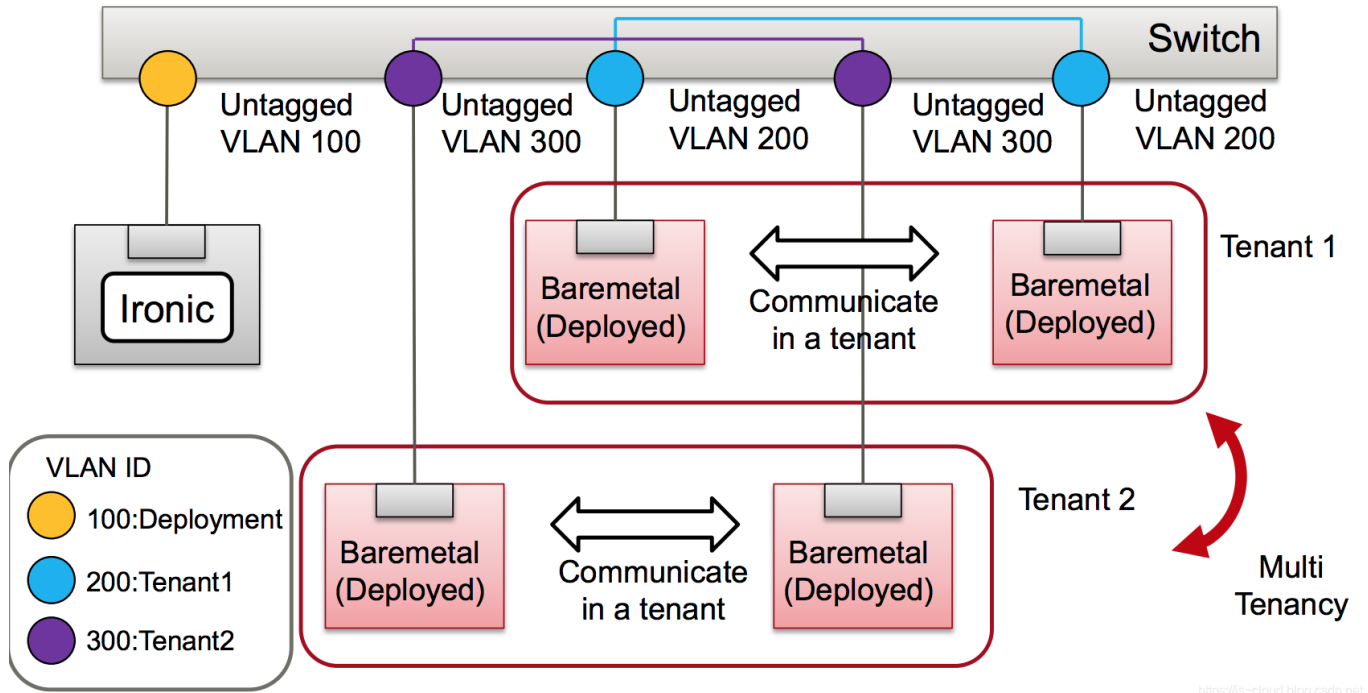
가 , Ironic VLAN ID

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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