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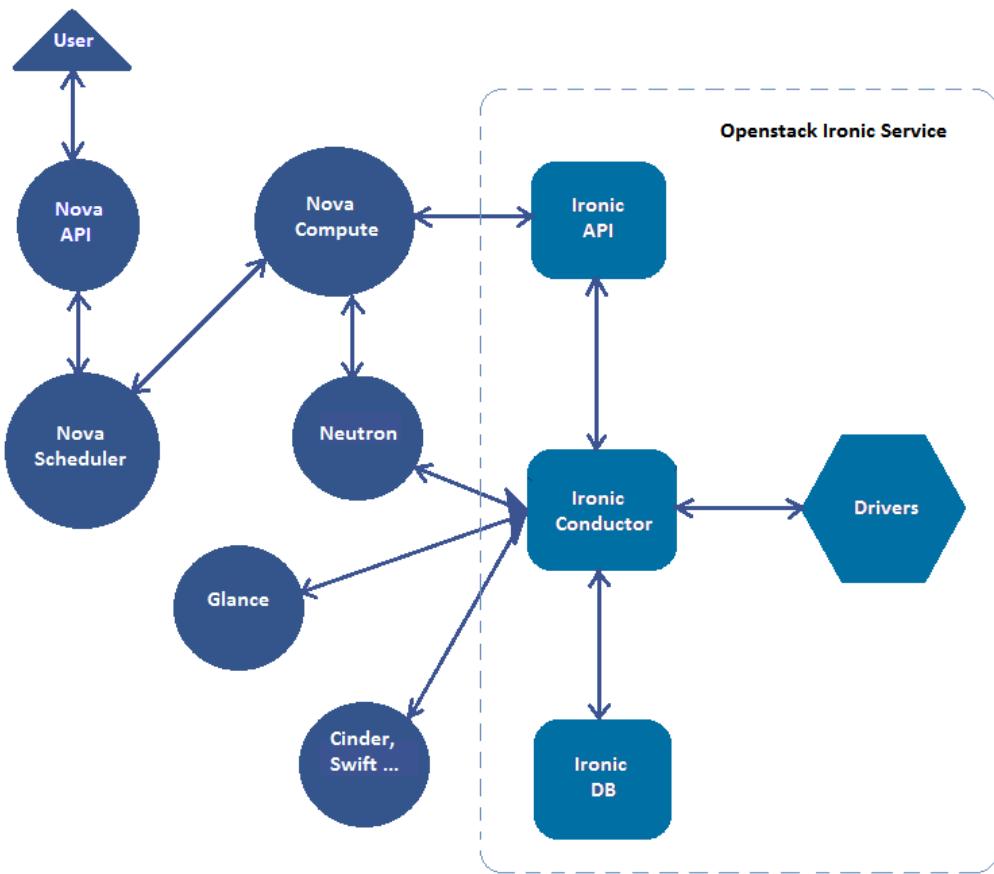
ironic\_

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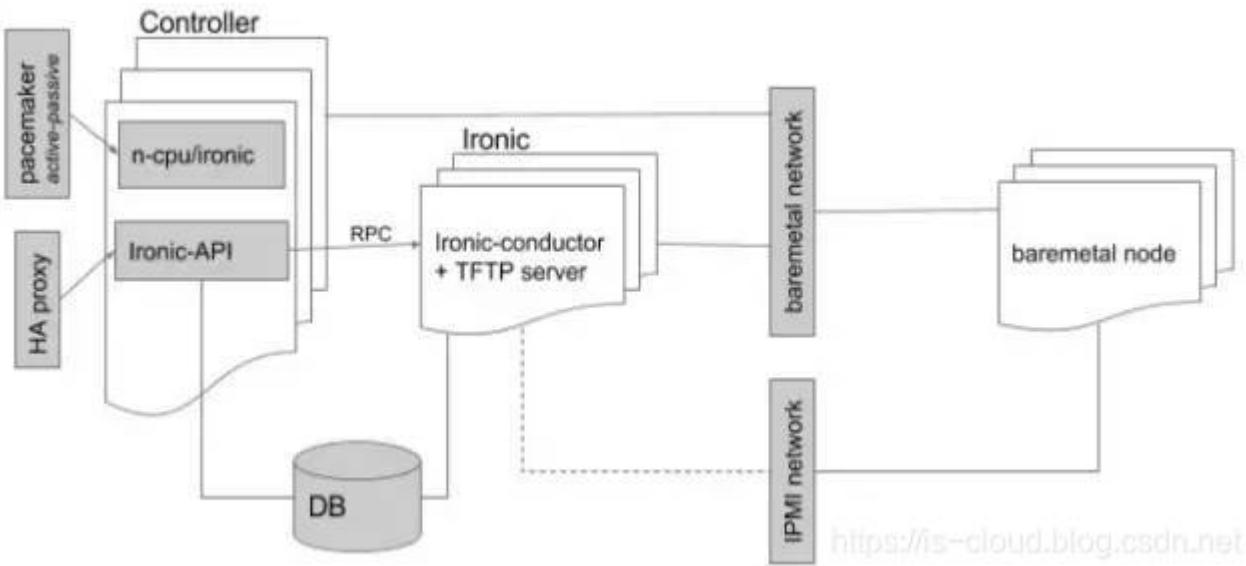
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# Ironic

Figure 1.2. Logical Architecture



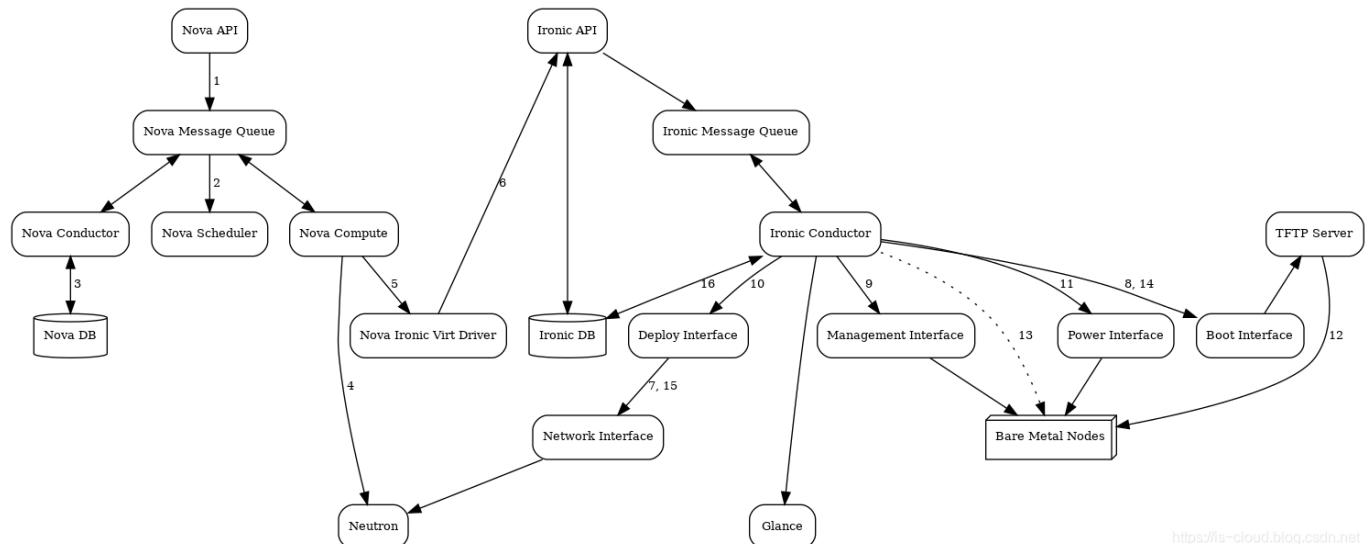
<https://is-cloud.blog.csdn.net>



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

: <https://docs.openstack.org/ironic/latest/user/index.html>

- **ironic-conductor**가 **tftp-server, ipmi, syslinux**
- Nova 가 **Nova**, **Ironic**
- 가 **Flavors** . **Nova** **Flavor**
- Glance :
  - bm-deploy-kernel
  - bm-deploy-ramdisk
  - user-image
  - user-image-vmlinuz
  - user-image-initrd
- Ironic RESTful API



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1. Nova API
2. Nova , Flavor extra\_specs( : Nova cpu\_arch)
3. Nova 가 Nova
4. Nova 가 Nova (VIF) MAC (NIC)
5. Nova virt driver.spawn spawn . spawn Nova virt Nova

  - , UUID, Flavor
  - Ironic API
  - VIF Neutron 가 VIF Ironic
  - , , VIF MAC Ironic
  - config

6. Nova Ironic virt Ironic API Ironic Conductor
7. 가 가 , Neutron API DHCP Ironic PXE/TFTP Nova

  - flat

8. Ironic (i)PXE
9. Ironic
10. Ironic (iscsi ( : netboot ), )
11. Ironic
- 12.
13. , conductor 가 iSCSI ( URL ( : Swift RadosGW ) URL Swift API ) (iSCSI URL 가 )
14. PXE ( )

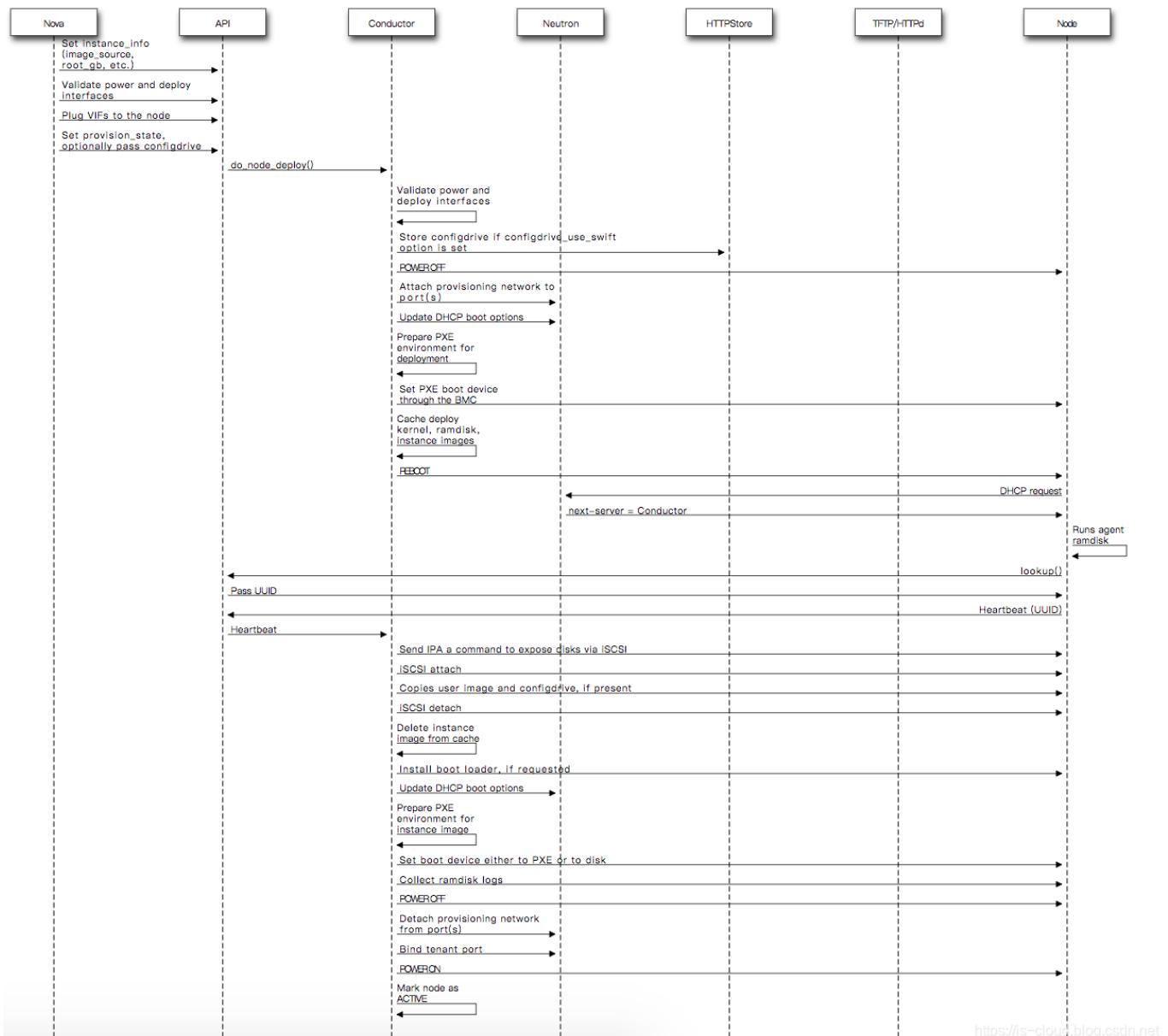
),  
가 , IPMI/BMC

15. ( )  
16. 가 active

## iSCSI UML

iSCSI , iSCSI  
, ironic-conductor가

```
openstack baremetal node create --driver ipmi --deploy-interface iscsi  
openstack baremetal node set <NODE> --deploy-interface iscsi
```



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## 1. Nova API

### 2. Nova

( : , ) Flavor extra\_spec

Nova API  
Nova Compute  
Nova Network

( :cpu\_arch, baremetal:deploy\_kernel\_id,  
baremetal:deploy\_ramdisk\_id).

### 3. Nova Compute

, Build spawn  
, Ironic

### 4. Ironic OpenStack User Images

Glance (Deploy Images  
, Cinder

### 5. Ironic

PXE

TFTP

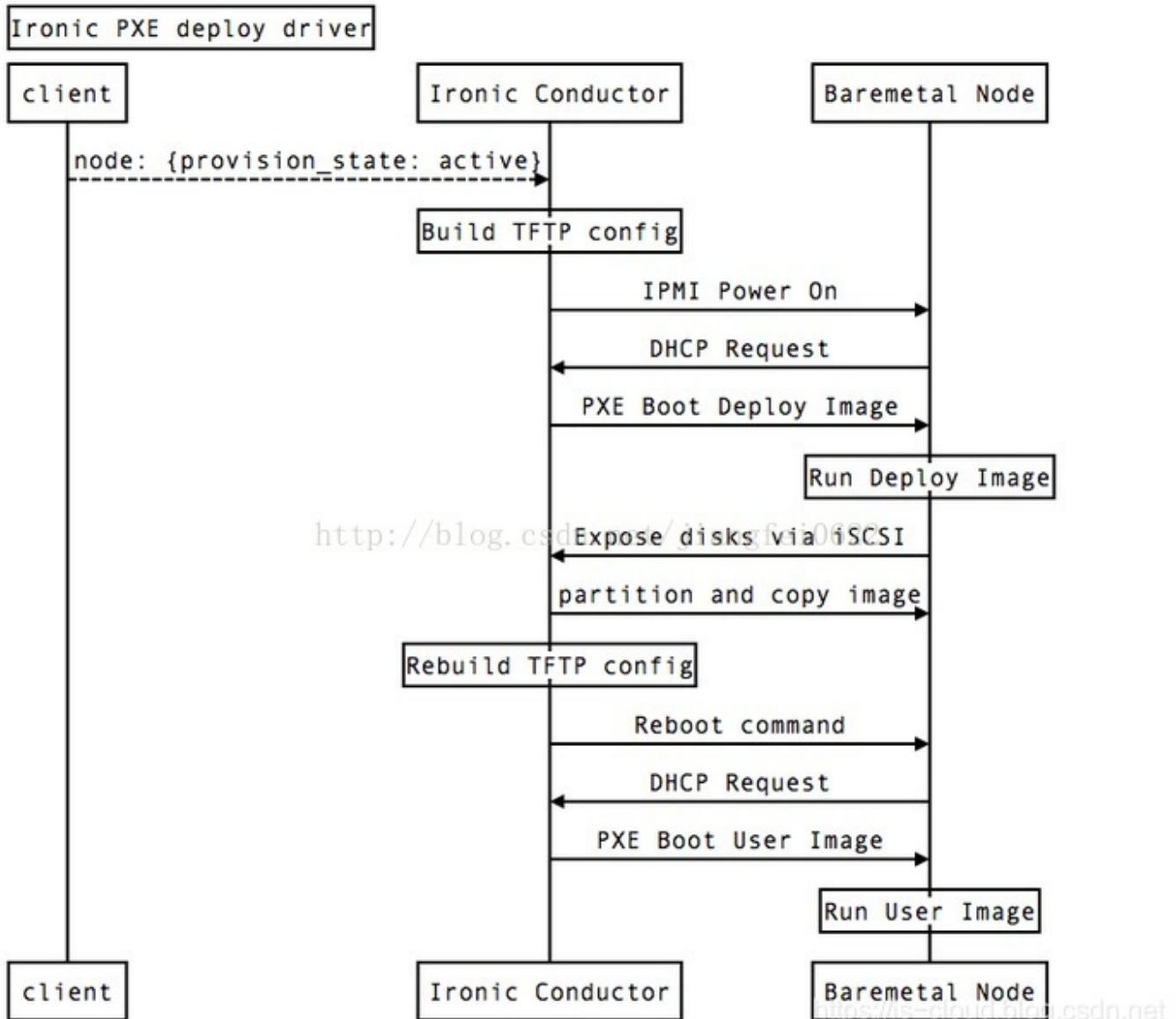
IPMI

DHCP Ironic Conductor , TFTP Conductor  
Deploy Images 가 Ironic Conductor가 RAMDisk , IPA iSCSI  
Conductor User Images

### 7.

, IPMI

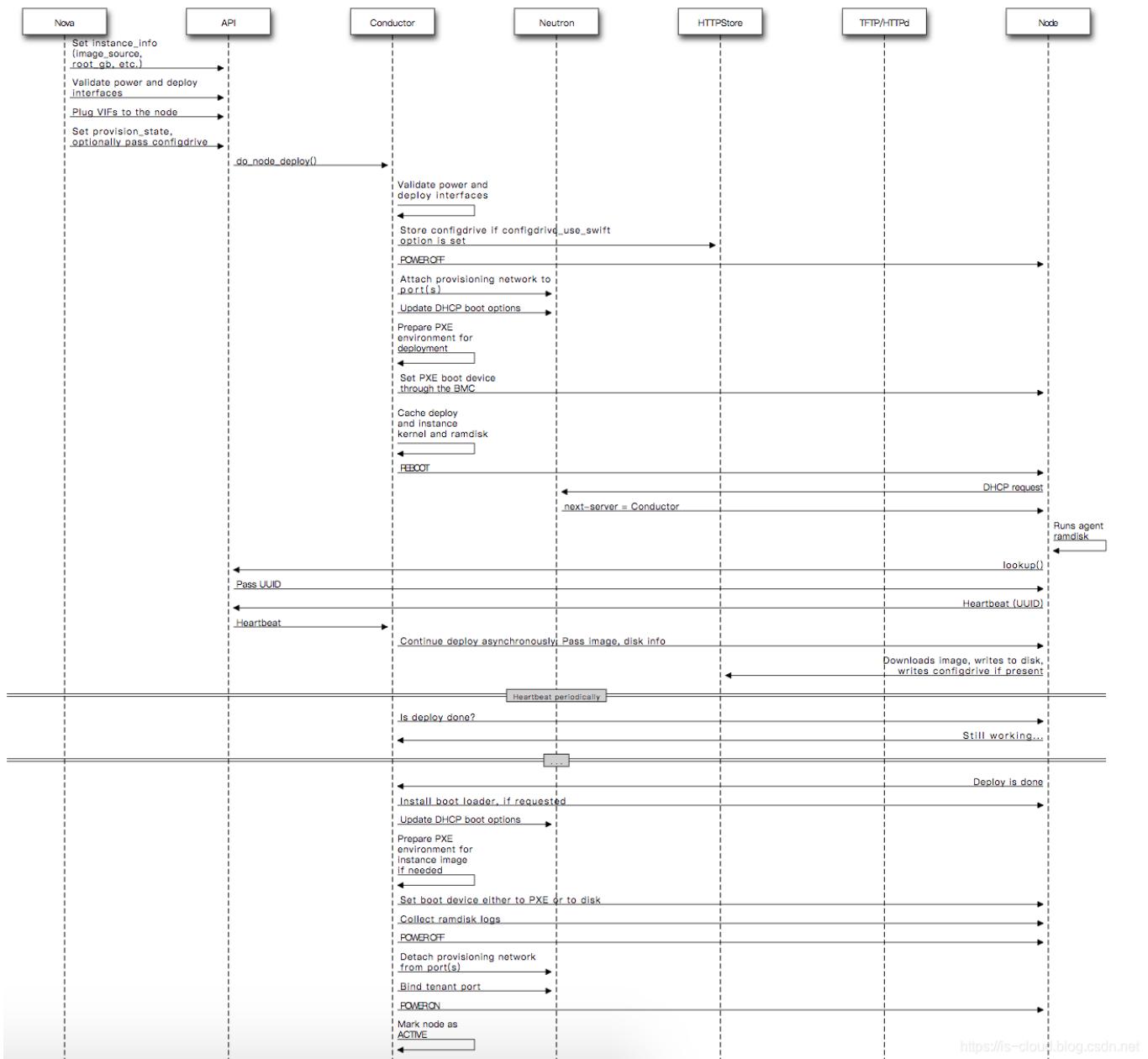
## PXE



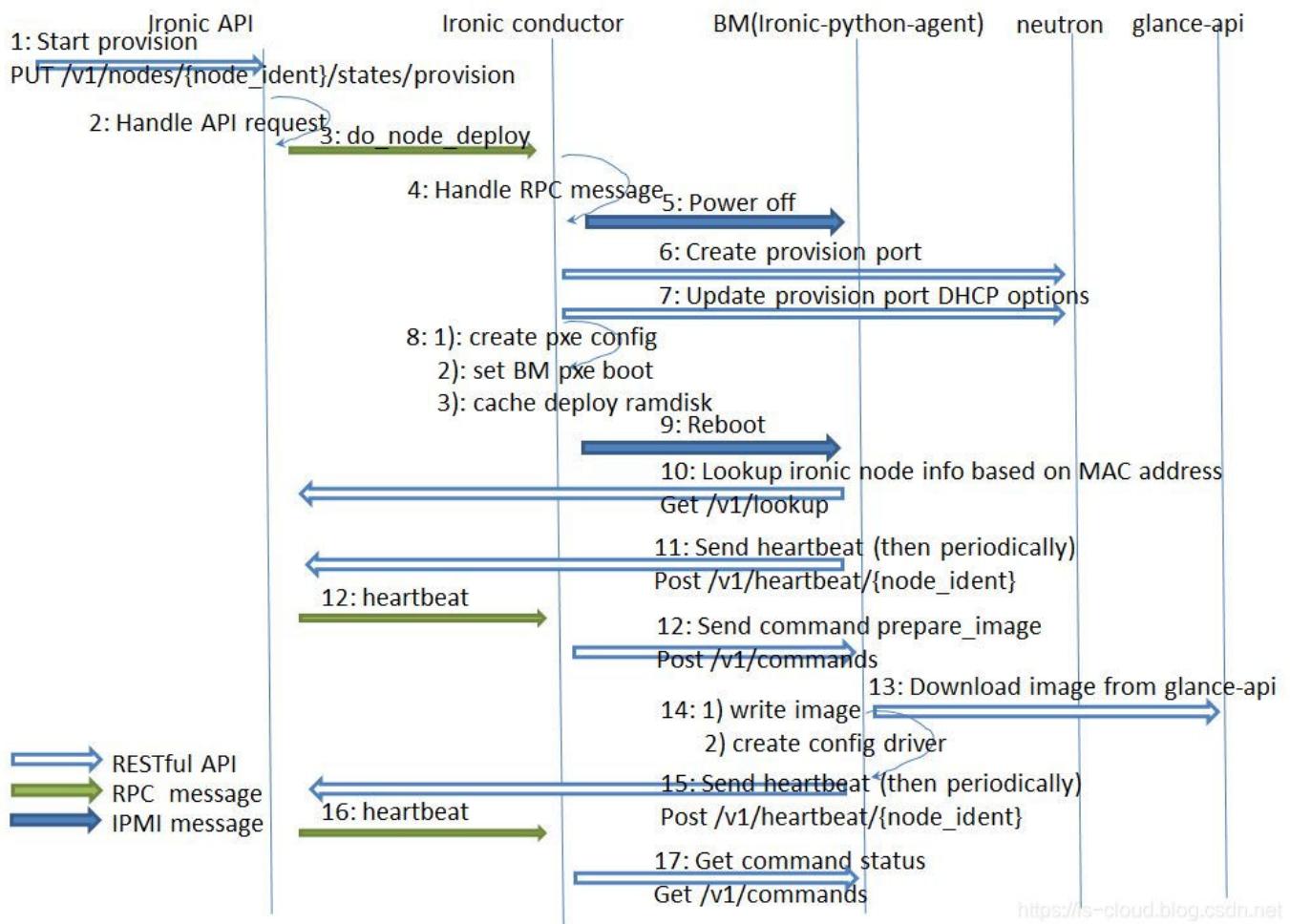
## UML

Direct , , HTTP 가 . HTTP  
(Swift RadosGW) URL , 가 HTTP URL

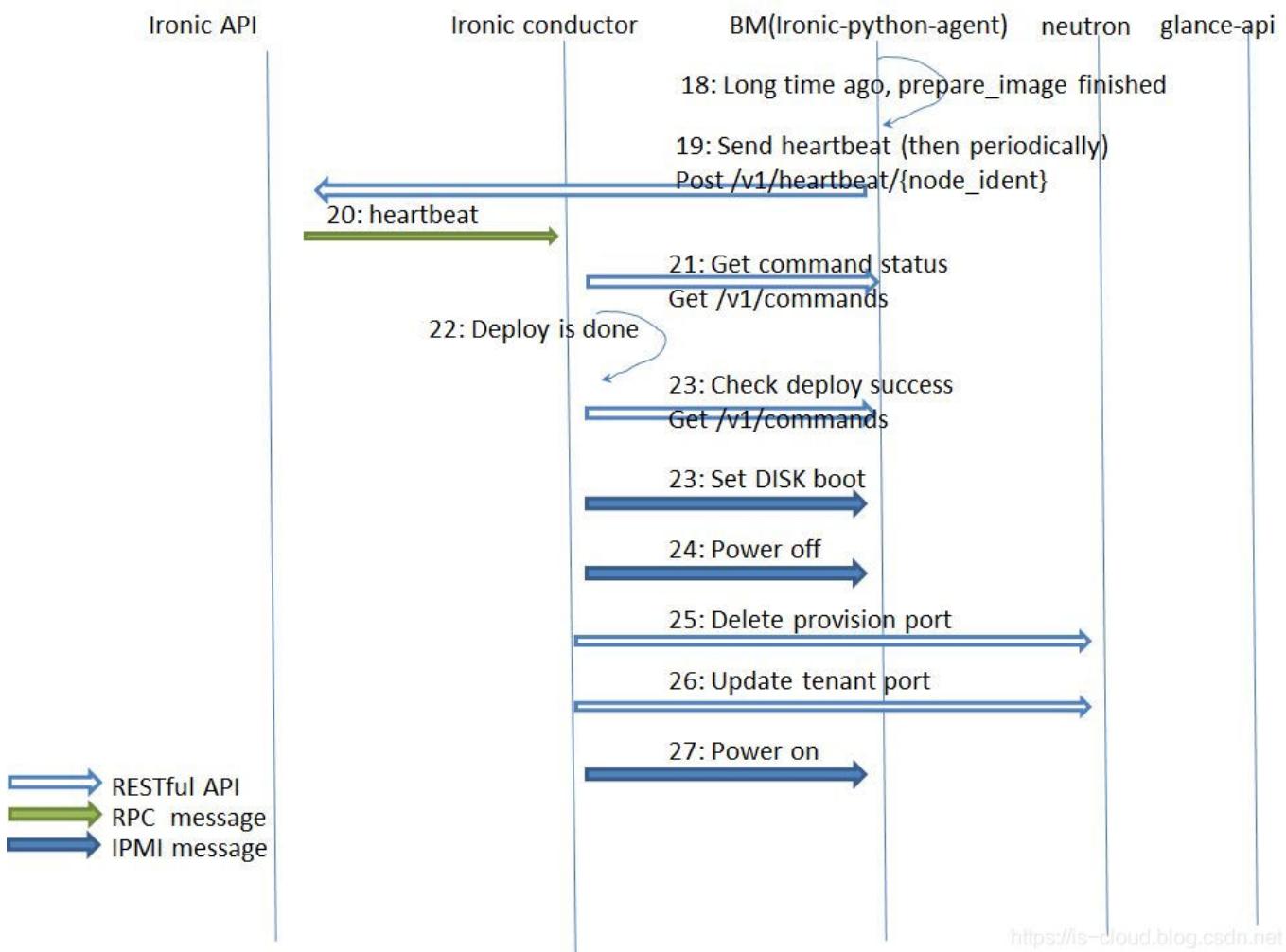
```
openstack baremetal node create --driver ipmi --deploy-interface direct
openstack baremetal node set <NODE> --deploy-interface direct
```



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1. Provision

2.

3. IPA lookup      Ironic Conductor

ironic\_node\_uuid 가 .

4. IPA Heartbeat      Ironic  
Conductor가 prepare\_image      IPA

가 , Ironic  
IPA (Direct)

300GB

10

5. ironic-conductor Heartbeat  
( ),

ironic-api      RPC

ironic-conductor가 IPA prepare\_image  
ironic-conductor가 IPA

Heartbeat

, Heartbeat

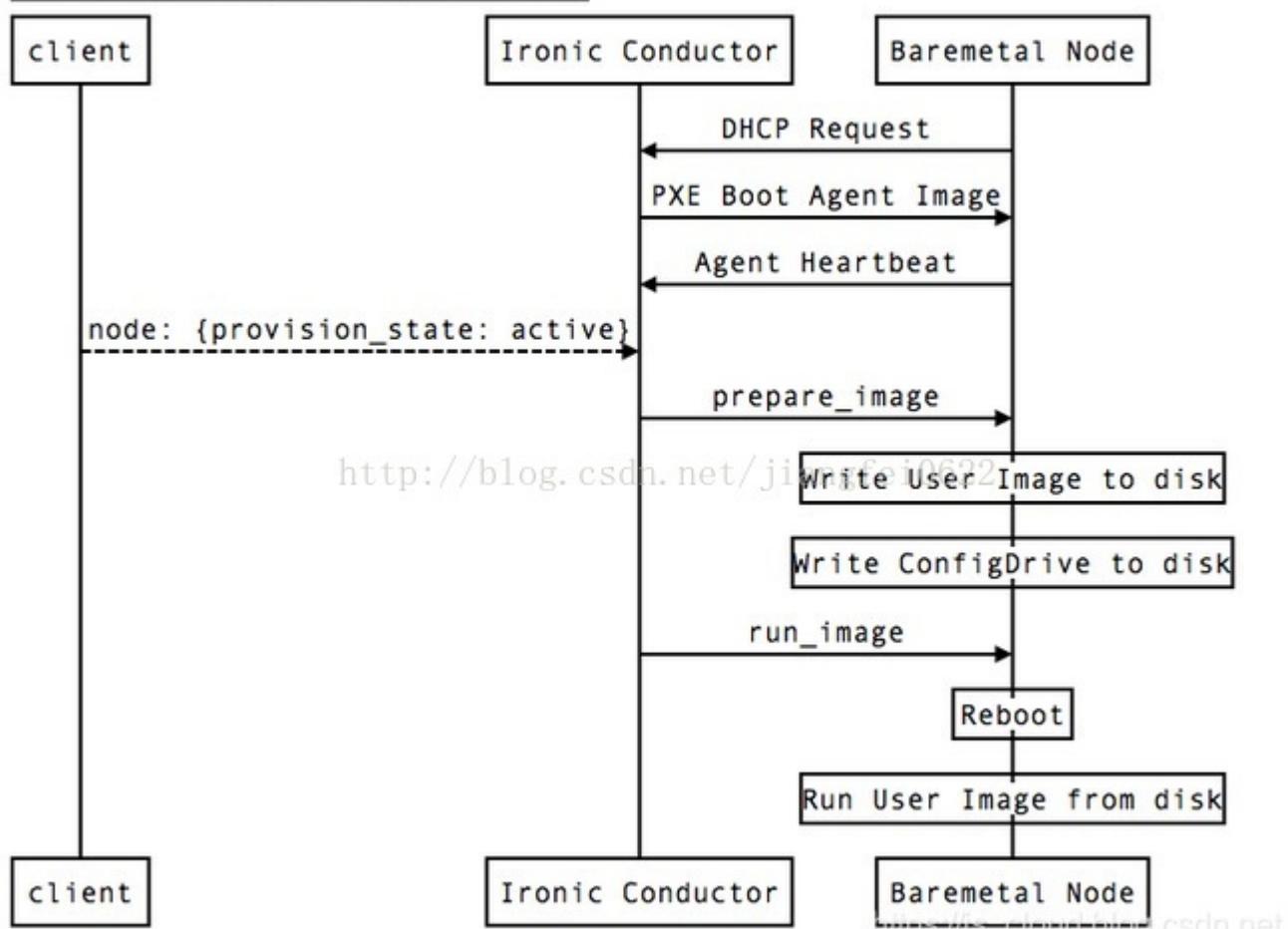
prepare\_image

가

## IPA

ironic\_  
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06:32 -

## Ironic Python Agent deploy driver



- <https://www.cnblogs.com/jmilkfan-fanguiju/p/11825062.html>

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