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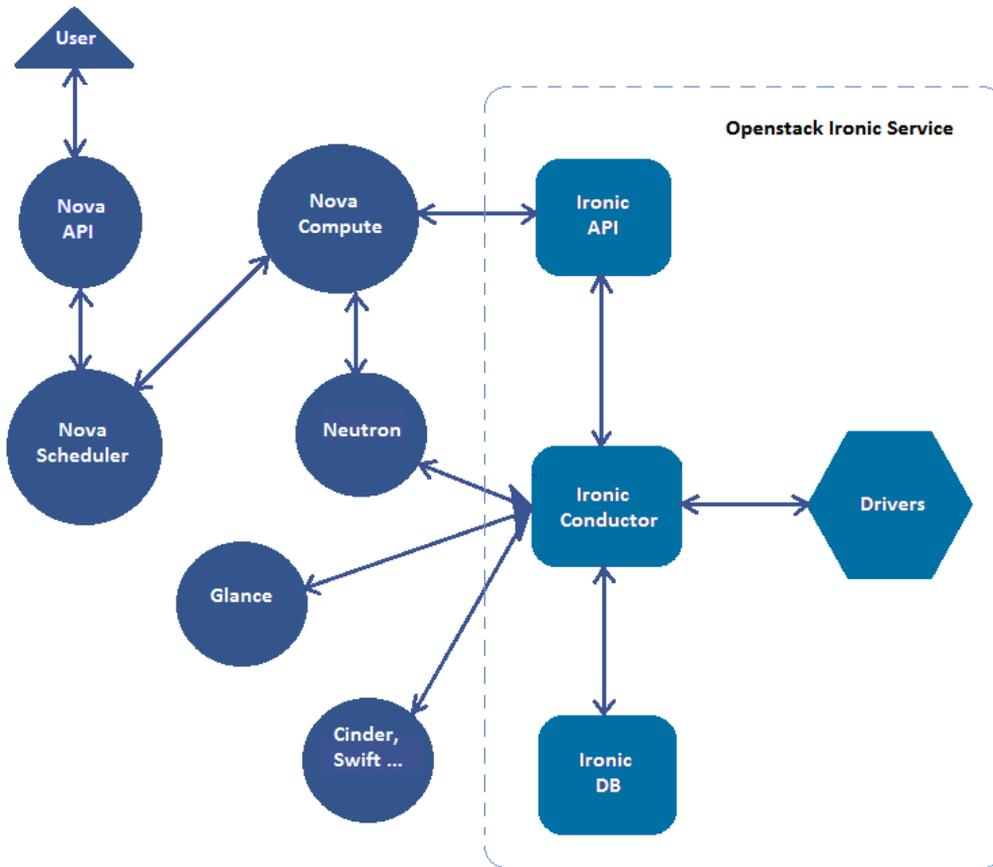
ironic\_

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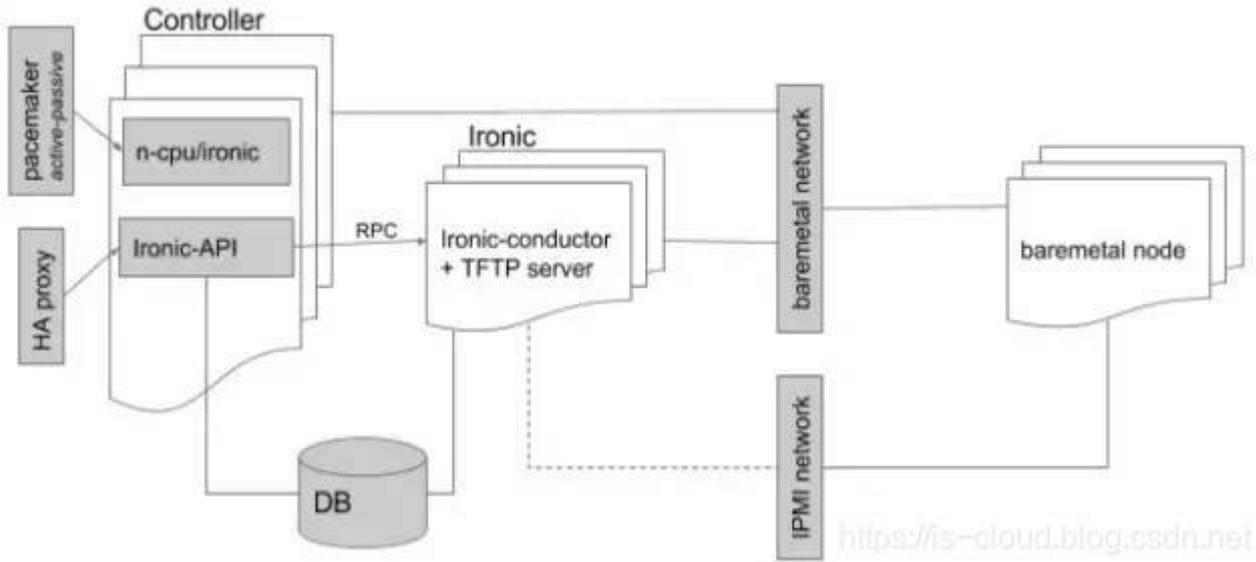
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# Ironic

Figure 1.2. Logical Architecture

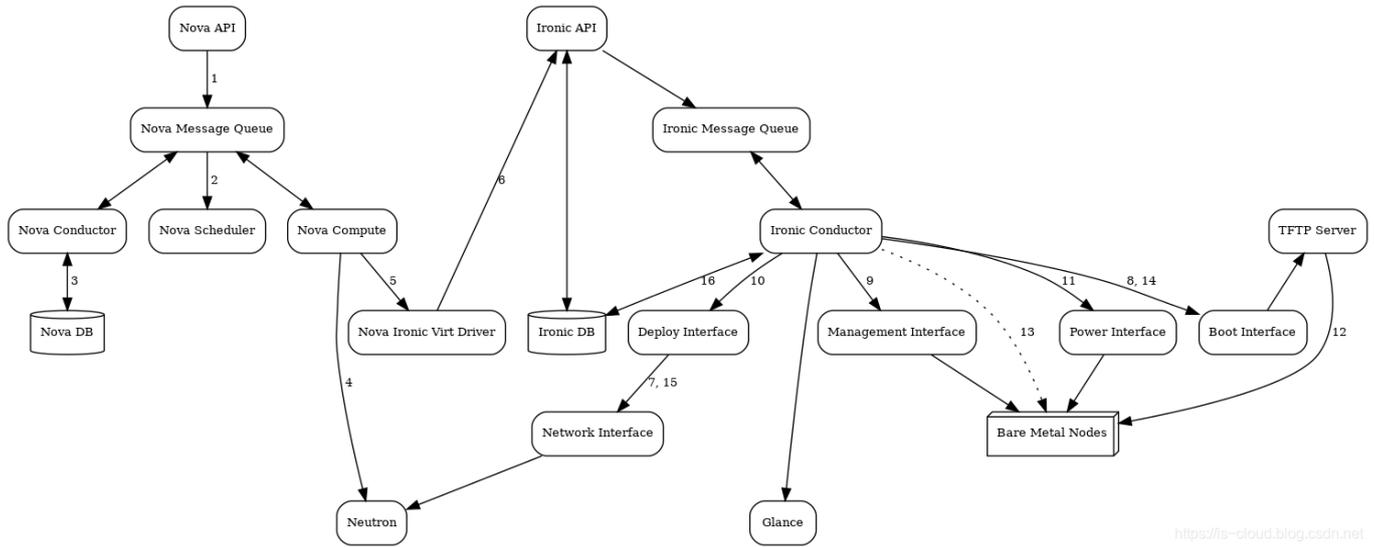


<https://is-cloud.blog.csdn.net>



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

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



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1. Nova API Nova , Flavor extra\_specs( :  
cpu\_arch)
2. Nova Message Queue
3. Nova Conductor
4. Nova Compute 가 Nova (VIF) , MAC (NIC) , MAC VIF가
5. Nova virt driver.spawn spawn .spawn virt Nova  
  - o , UUID, Flavor Ironic
  - o Ironic API
  - o VIF Neutron 가 Ironic Ironic Ironic 가 VIF Ironic Ironic , VIF MAC
  - o config
6. Nova Ironic virt Ironic API Ironic Conductor
7. 가 가 , Neutron API DHCP PXE/TFTP . Neutron Ironic Nova , flat
8. Ironic (i)PXE
9. Ironic
10. Ironic (iscsi ), , ( : netboot )
11. Ironic
- 12.
13. , conductor가 iSCSI (iSCSI ), 가 URL ( URL Swift API 가 ( : Swift RadosGW) )
14. PXE (

), 가 , IPMI/BMC .

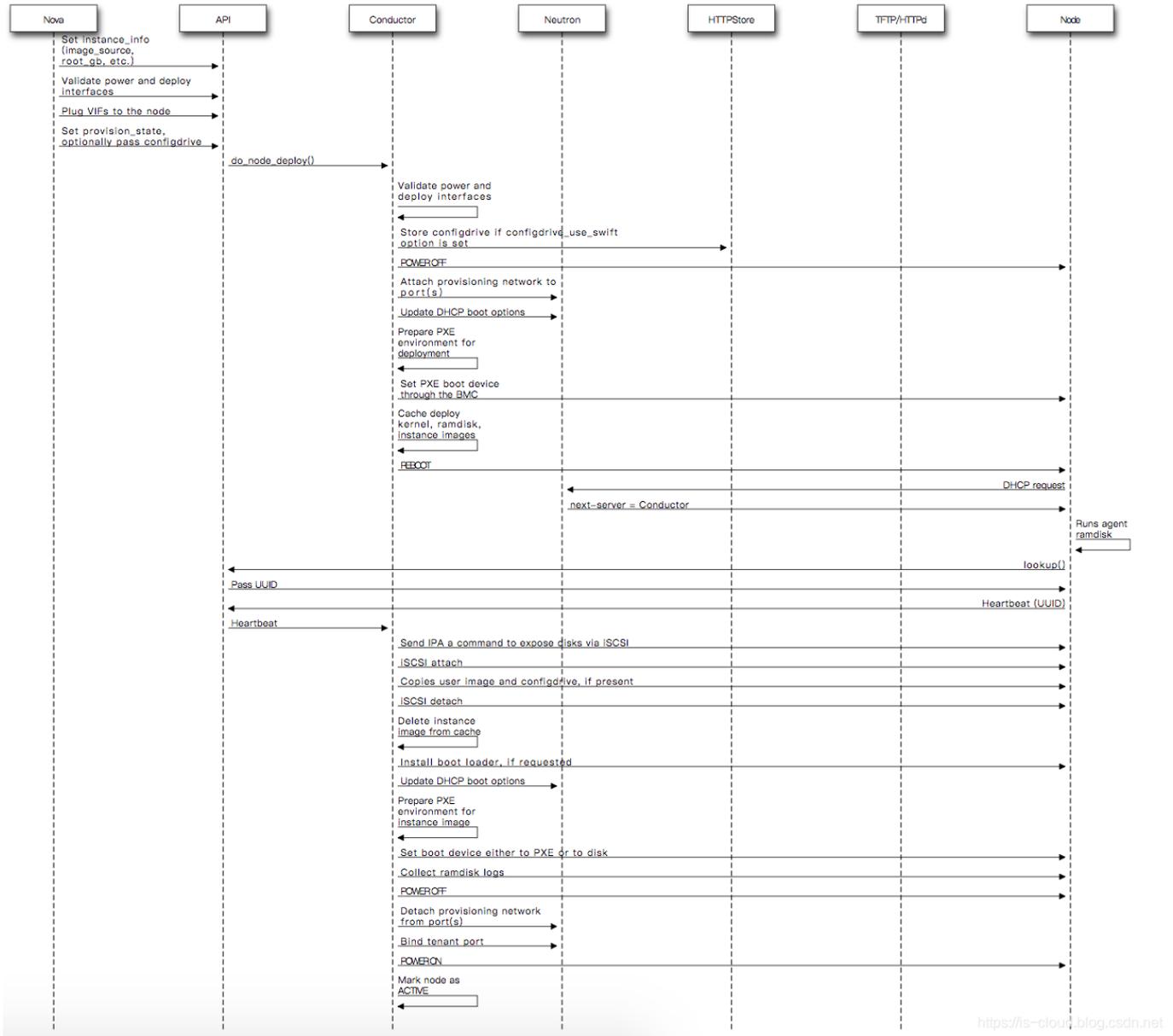
15. (

16. ). 가 active .

## iSCSI UML

iSCSI , ironic-conductor가 iSCSI .

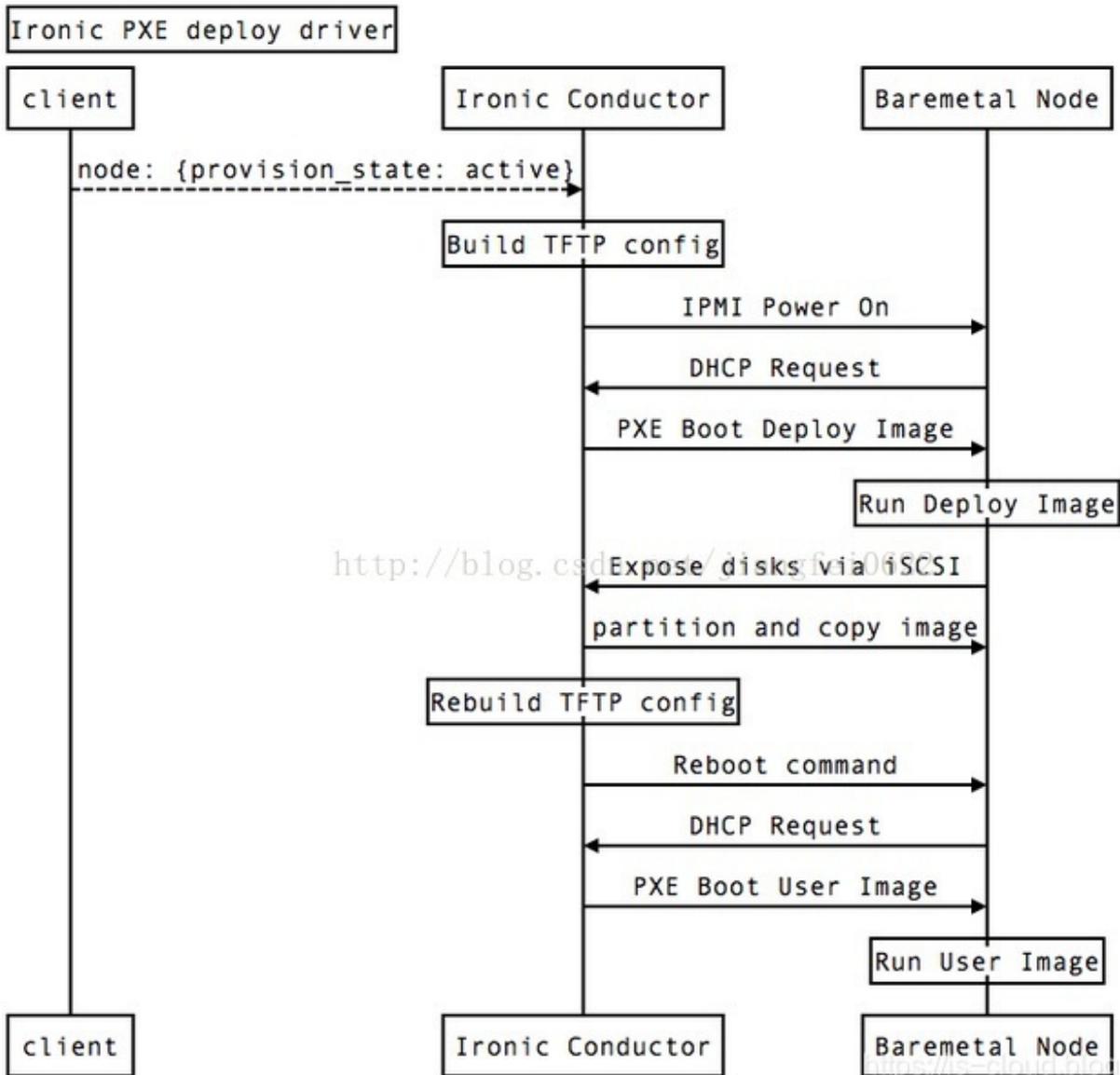
```
openstack baremetal node create --driver ipmi --deploy-interface iscsi  
openstack baremetal node set <NODE> --deploy-interface iscsi
```



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1. Nova API
2. Nova ( : , ) Ironic Flavor extra\_spec ( : cpu\_arch, baremetal:deploy\_kernel\_id, baremetal:deploy\_ramdisk\_id).
3. Nova Compute , Build spawn Ironic API , Ironic
4. Ironic OpenStack Glance (Deploy Images User Images) 가 , Neutron , Cinder 가
5. Ironic , PXE TFTP IPMI PXE
6. DHCP Ironic Conductor , TFTP Conductor Deploy Images 가 . Conductor가 RAMDisk , IPA iSCSI , Conductor User Images
7. 가 , IPMI

## PXE

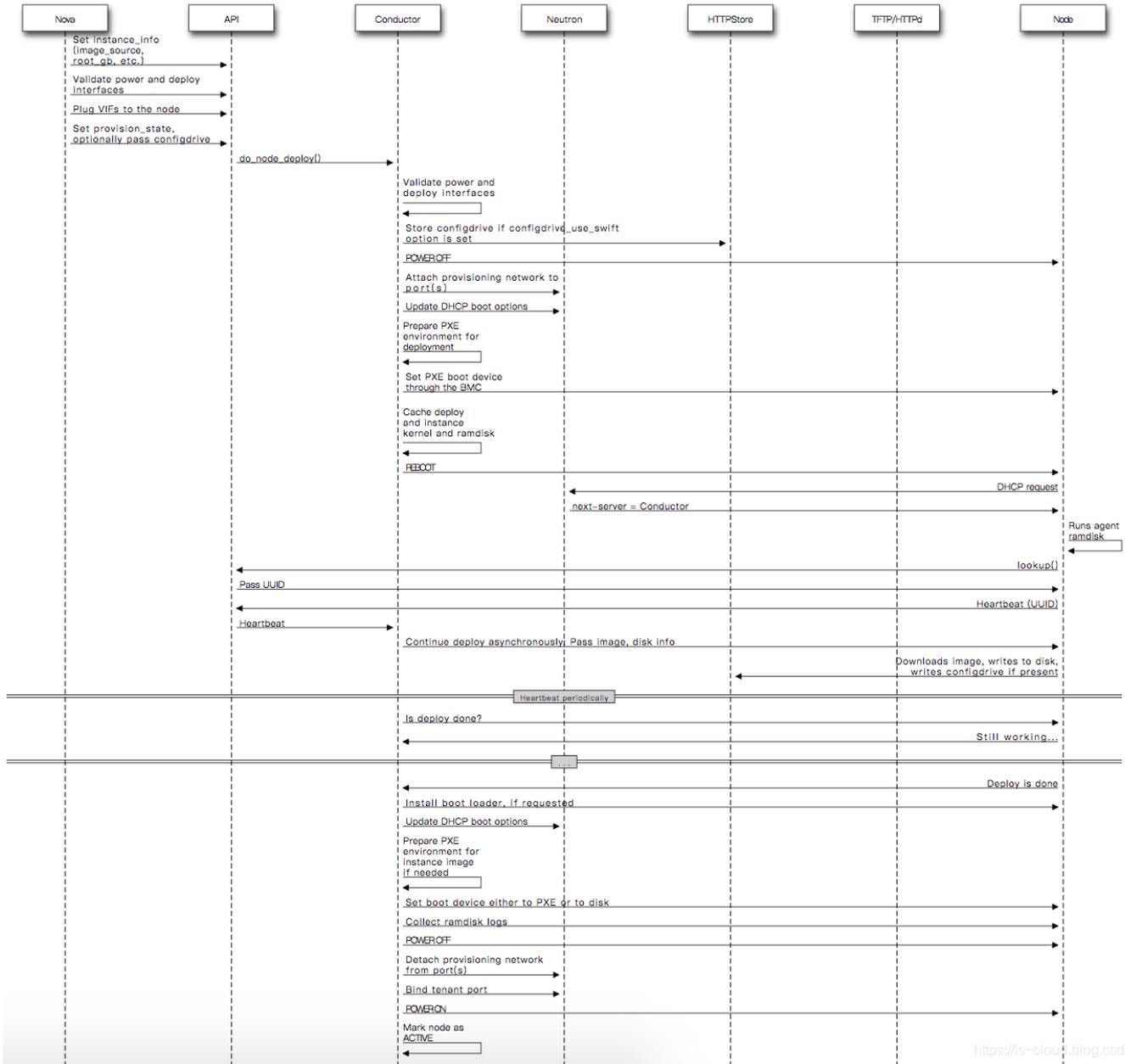


## UML

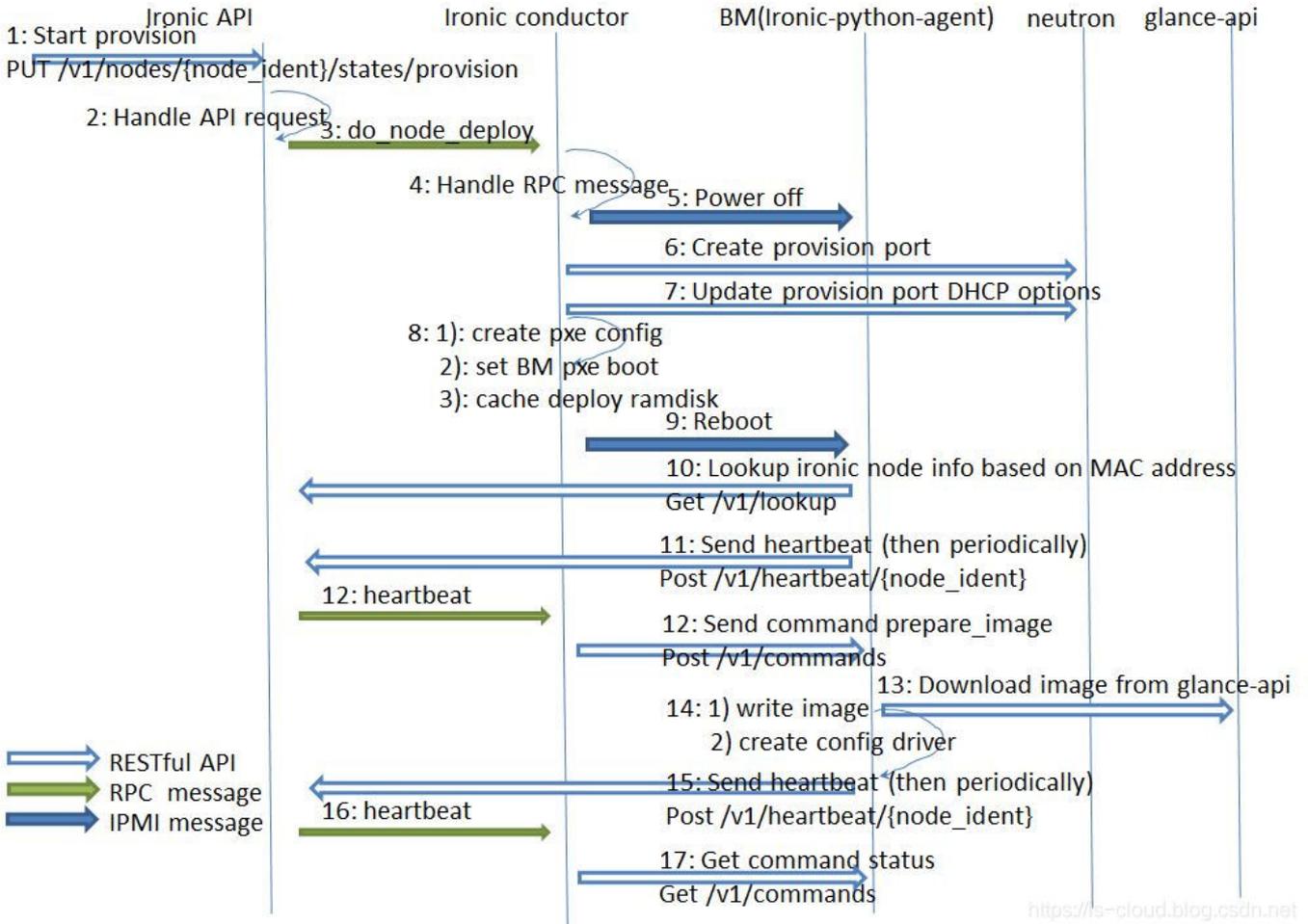
Direct (Swift RadosGW) URL HTTP 가 HTTP  
 , 가 HTTP URL

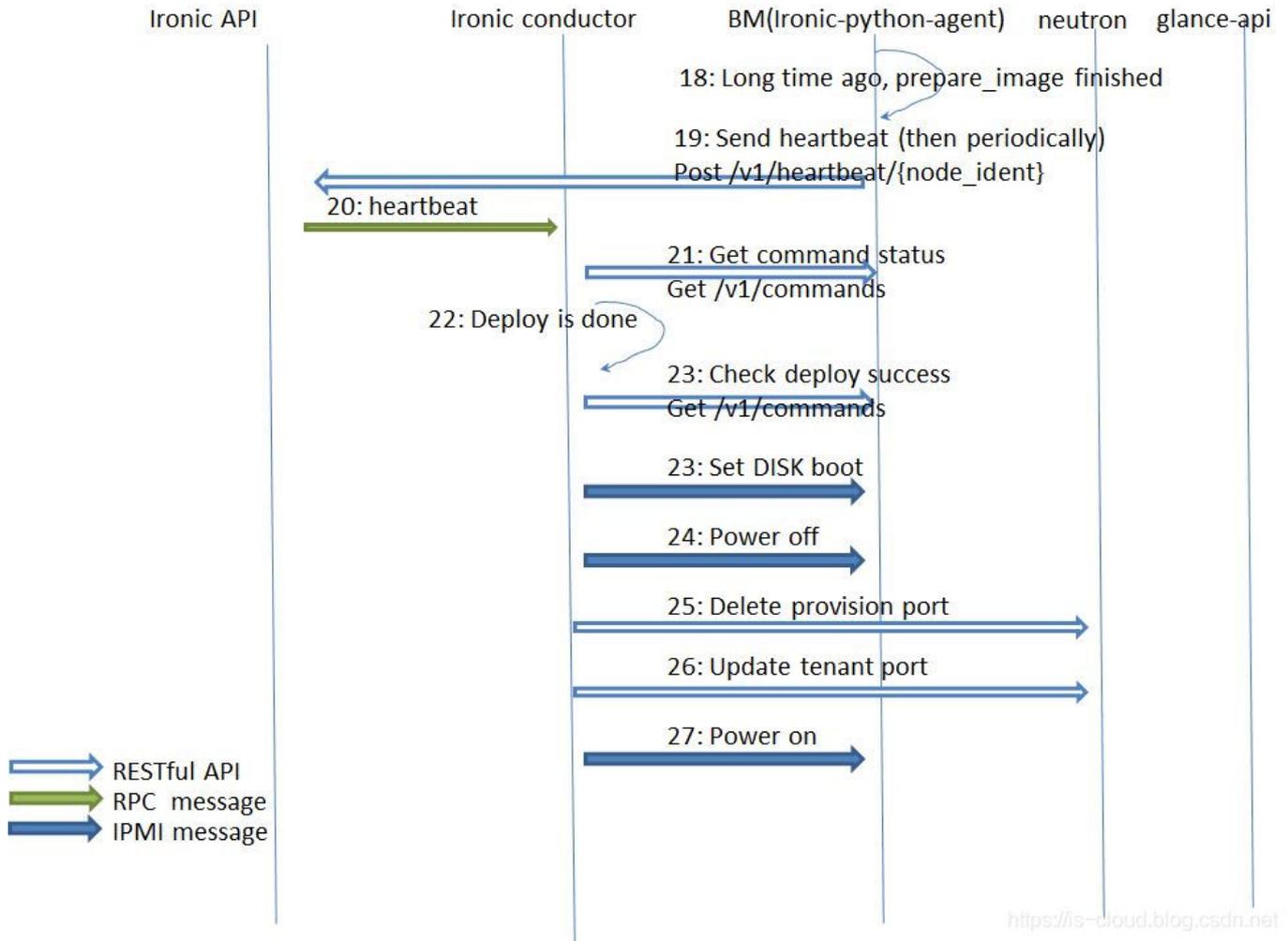
```

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 , IPA (Direct), Ironic

300GB

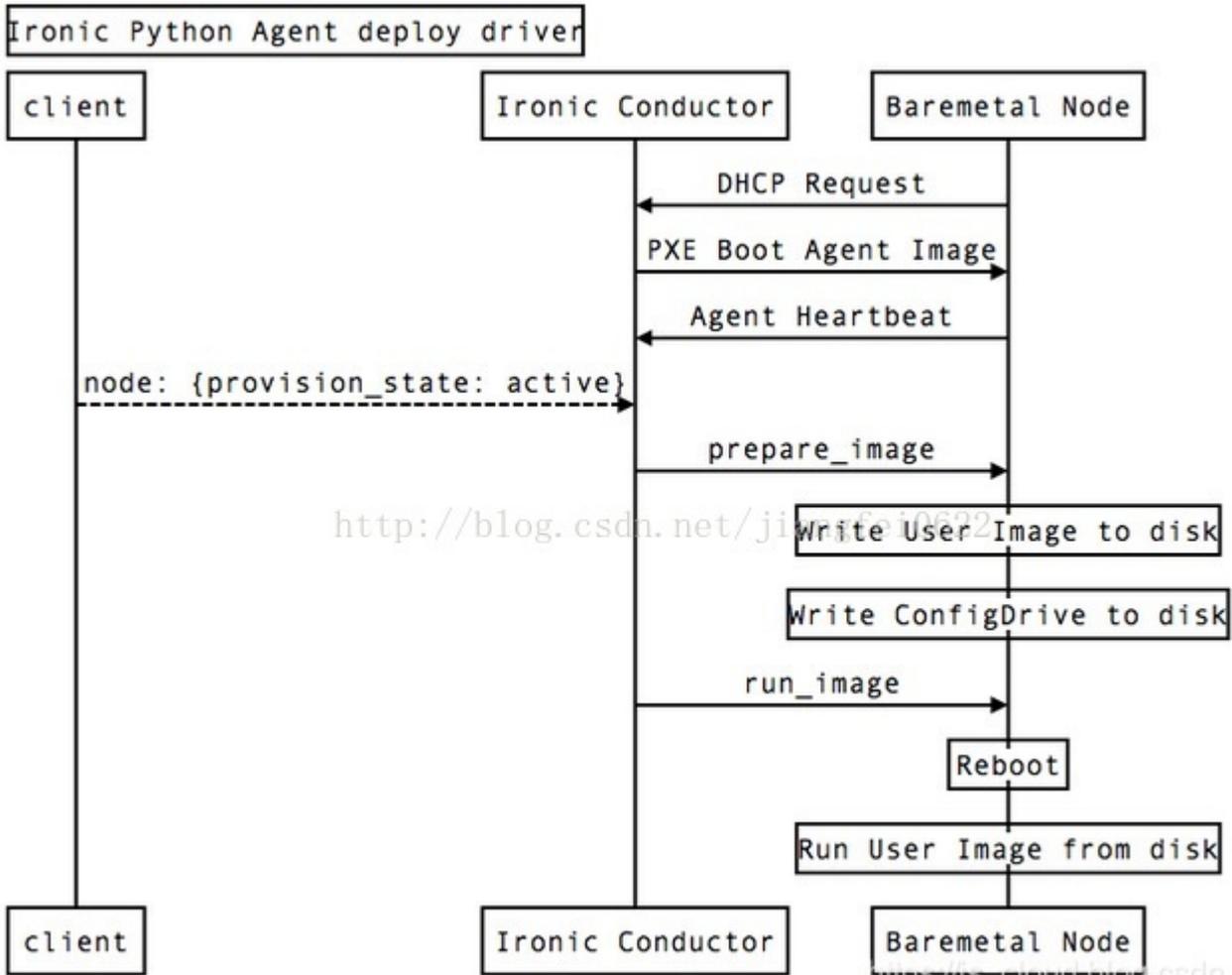
10

5. ironic-conductor Heartbeat ( ironic-api RPC ) , Heartbeat

ironic-conductor가 IPA prepare\_image , Heartbeat  
ironic-conductor가 IPA prepare\_image

가

### IPA



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

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