목차

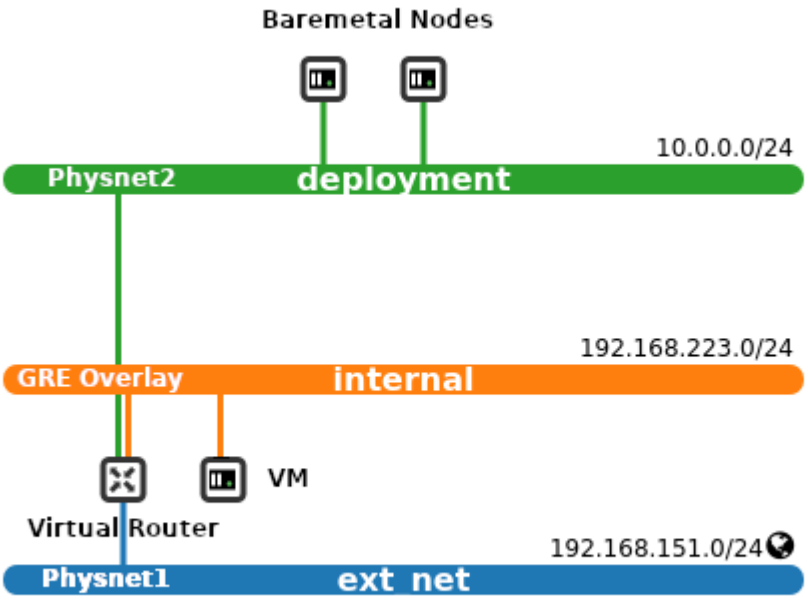
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Ironic 구성

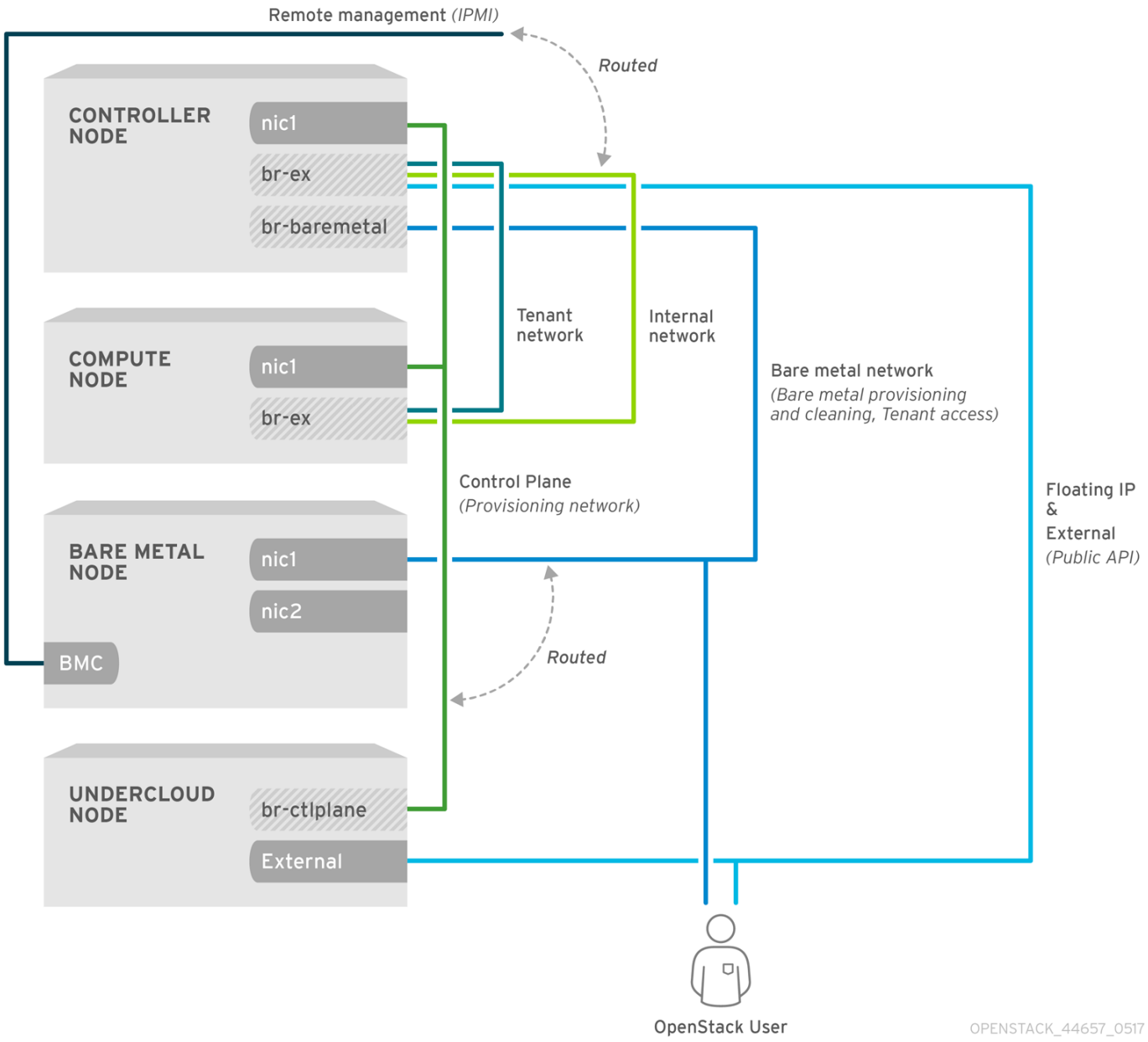
- https://docs.openstack.org/ironic/latest/install/configure-tenant-networks.html
- https://docs.openstack.org/ironic/latest/install/configure-cleaning.html
- https://docs.openstack.org/ironic/latest/install/configure-networking.html

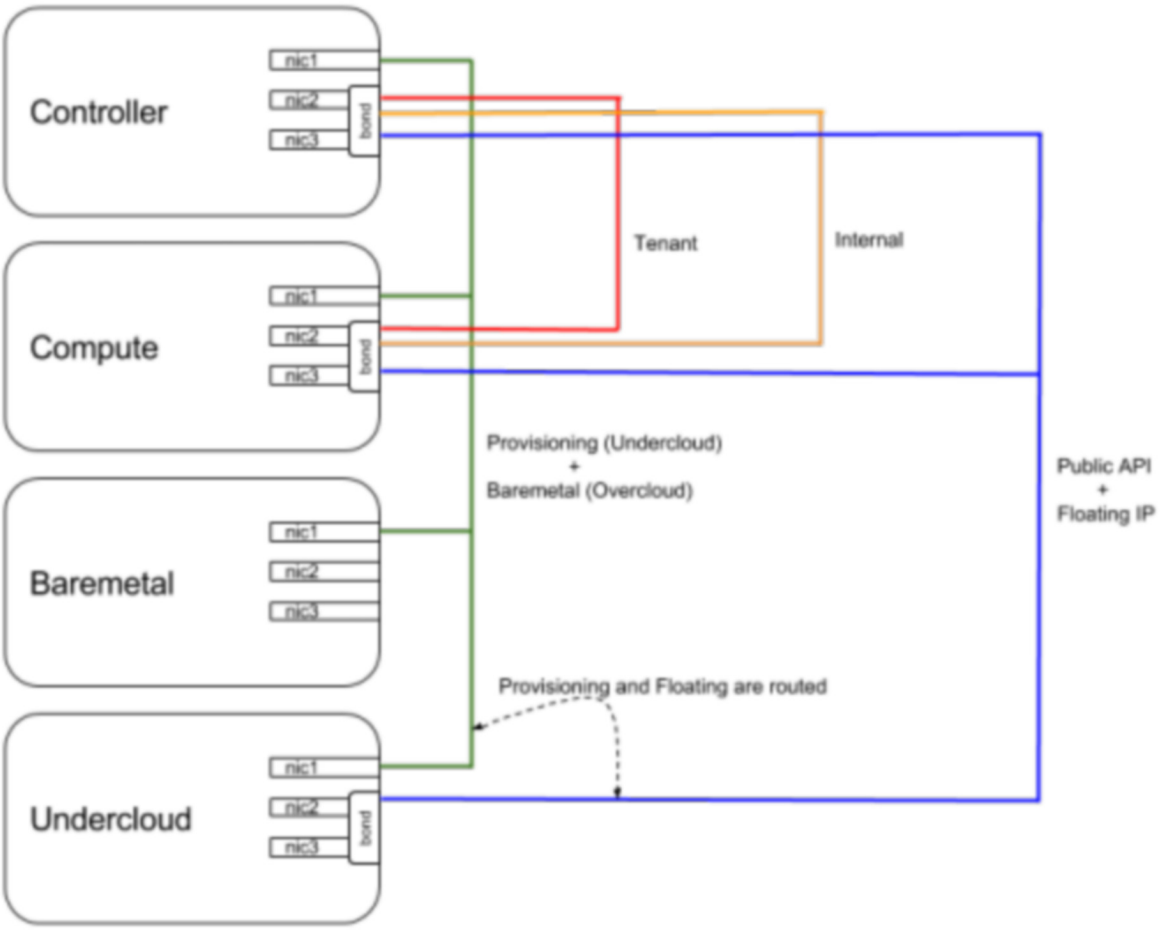
아키텍처

koll-ansible 환경

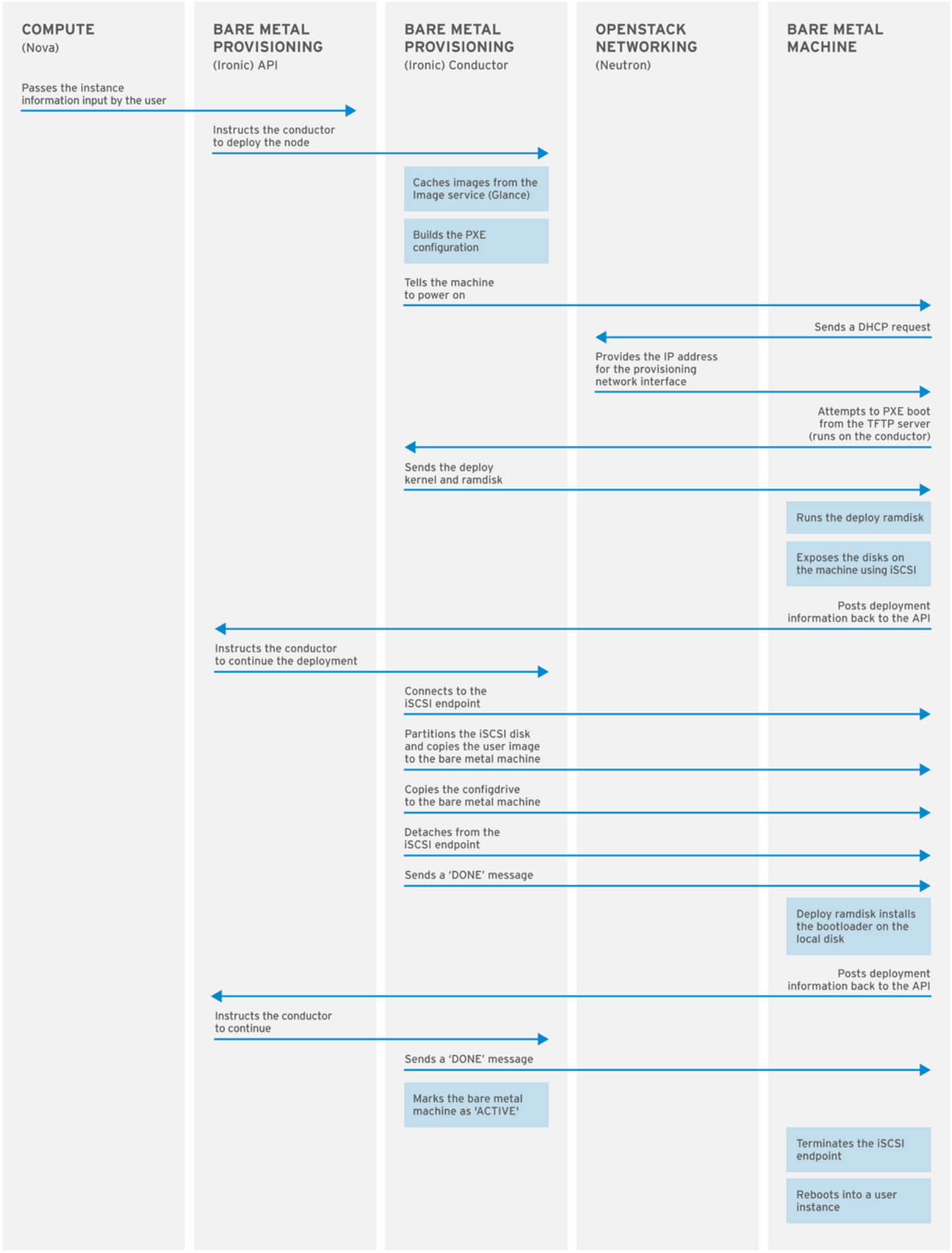


TripleO 환경


Remote management (IPMI)
Routed
CONTROLLER NODE
nic1
br-ex
br-baremetal
COMPUTE NODE
nic1
br-ex
Tenant network
Internal network
Bare metal network
(Bare metal provisioning and cleaning, Tenant access)
Control Plane
(Provisioning network)
Floating IP & External
(Public API)
BARE METAL NODE
nic1
nic2
BMC
Routed
UNDERCLOUD NODE
br-ctlplane
External
OpenStack User
OPENSTACK_44657_0517


Controller
nic1
nic2
nic3
bond
Compute
nic1
nic2
nic3
bond
Baremetal
nic1
nic2
nic3
Undercloud
nic1
nic2
nic3
bond
Tenant
Internal
Provisioning (Undercloud)
+
Baremetal (Overcloud)
Public API
+
Floating IP
Provisioning and Floating are routed

동작절차


COMPUTE
(Nova)
BARE METAL PROVISIONING
(Ironic) API
BARE METAL PROVISIONING
(Ironic) Conductor
OPENSTACK NETWORKING
(Neutron)
BARE METAL MACHINE
Passes the instance information input by the user
Instructs the conductor to deploy the node
Caches images from the Image service (Glance)
Builds the PXE configuration
Tells the machine to power on
Sends a DHCP request
Provides the IP address for the provisioning network interface
Attempts to PXE boot from the TFTP server (runs on the conductor)
Sends the deploy kernel and ramdisk
Runs the deploy ramdisk
Exposes the disks on the machine using iSCSI
Posts deployment information back to the API
Instructs the conductor to continue the deployment
Connects to the iSCSI endpoint
Partitions the iSCSI disk and copies the user image to the bare metal machine
Copies the configdrive to the bare metal machine
Detaches from the iSCSI endpoint
Sends a 'DONE' message
Deploy ramdisk installs the bootloader on the local disk
Posts deployment information back to the API
Instructs the conductor to continue
Sends a 'DONE' message
Marks the bare metal machine as 'ACTIVE'
Terminates the iSCSI endpoint
Reboots into a user instance
OPENSTACK_377593_1215

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