

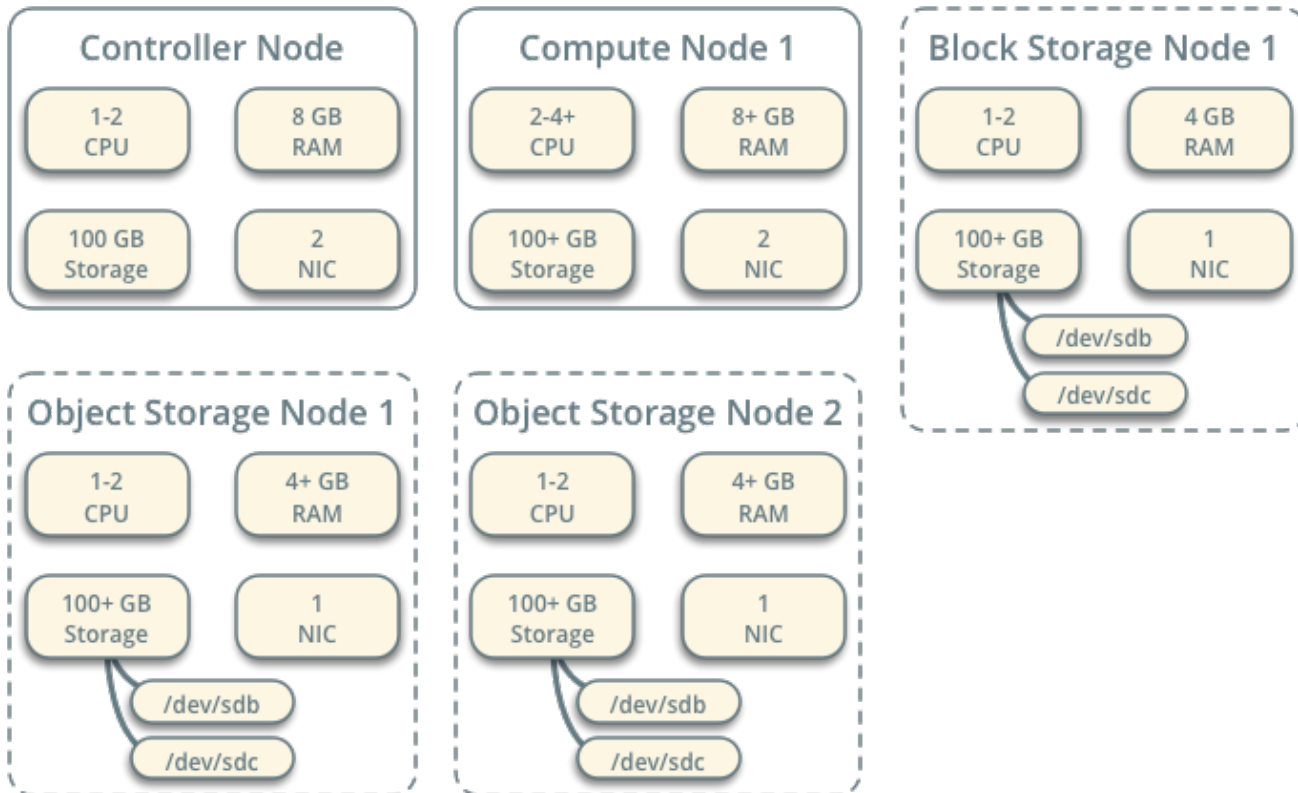
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# CentOS 7 Openstack Train

<https://docs.openstack.org/install-guide/>

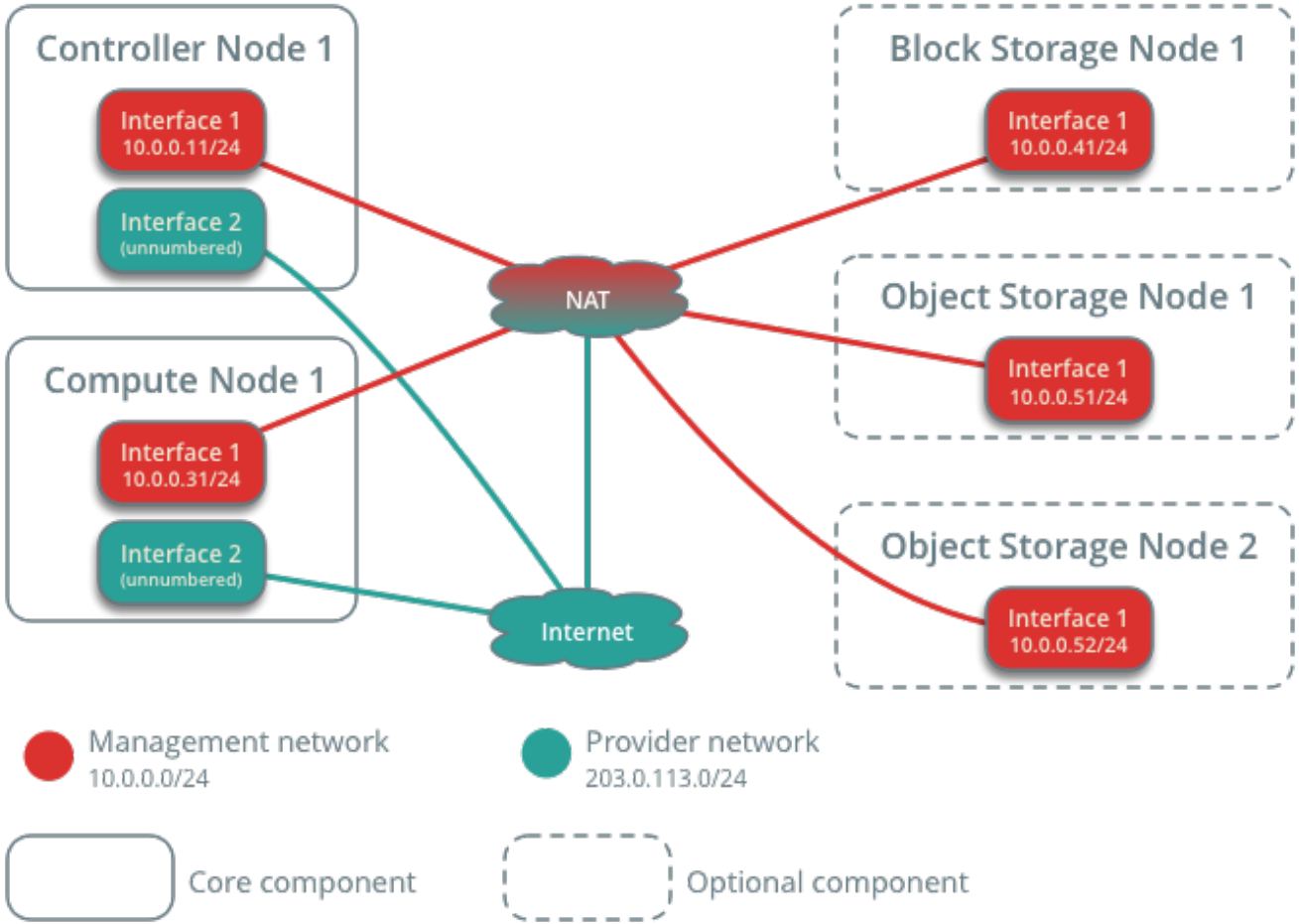
## Hardware Requirements



 Core component

 Optional component

## Network Layout



가

- 10.0.0.1 10.0.0.0/24 , DNS NTP 가

\* 203.0.113.0/24 ( 203.0.113.1 ) OpenStack 가

### /etc/hosts

```
# controller
10.0.0.11 controller

# computel
10.0.0.31 computel

# block1
10.0.0.41 block1
```

```
# object1
10.0.0.51      object1

# object2
10.0.0.52      object2
```

## (CentOS 7)

Openstack Ussuri      CentOS/RHEL 8      . Train      7  
 Openstack      .

```
# yum install centos-release-openstack-train
# yum upgrade
# yum install python-openstackclient
# yum install openstack-selinux
```

OpenStack      SQL      가      MariaDB      MySQL  
 . OpenStack      PostgreSQL      SQL      .

1.

```
# yum install mariadb mariadb-server python2-PyMySQL
```

2.      /etc/my.cnf.d/openstack.cnf      (/etc/my.cnf.d/  
      )      . [mysqld]      bind-address  
      IP      가  
      UTF-8      가      .

```
[mysqld]
bind-address = 10.0.0.11

default-storage-engine = innodb
innodb_file_per_table = on
max_connections = 4096
collation-server = utf8_general_ci
character-set-server = utf8
```

1.

```
# systemctl enable mariadb.service
# systemctl start mariadb.service
```

2. mysql\_secure\_installation  
root

```
# mysql_secure_installation
```

3.

```
[root@controller ~]# mysql -uroot -p
Enter password: ##DB PW
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 15
Server version: 10.3.10-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input
statement.

MariaDB [(none)]>
```

OpenStack

OpenStack RabbitMQ , Qpid ZeroMQ  
OpenStack  
가 RabbitMQ

1.

```
# yum install rabbitmq-server
```

2.

```
# systemctl enable rabbitmq-server.service
# systemctl start rabbitmq-server.service
```

3. openstack 가

```
# rabbitmqctl add_user openstack RABBIT_PASS
Creating user "openstack" ...
```

RABBIT\_PASS

4. openstack

```
[root@controller ~]# rabbitmqctl set_permissions openstack ".*" ".*" ".*"
Setting permissions for user "openstack" in vhost "/"

[root@controller ~]# rabbitmqctl list_permissions
Listing permissions in vhost "/"
openstack .* .* .*
guest .* .* .*
```

## Memcached

ID	Memcached	memcached

1.

```
# yum install memcached python-memcached
```

2. /etc/sysconfig/memcached

IP 가

```
OPTIONS="-l 127.0.0.1,:::1,controller"
```

3.

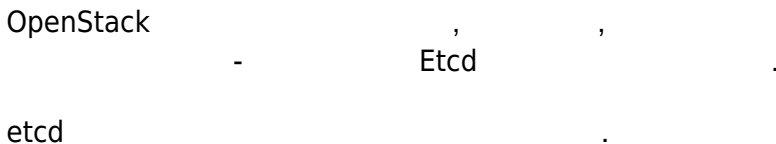
```
[root@controller ~]# systemctl enable memcached.service
Created symlink from /etc/systemd/system/multi-user.target.wants/memcached.service to /usr/lib/systemd/system/memcached.service.

[root@controller ~]# systemctl restart memcached.service

[root@controller ~]# systemctl status memcached.service
● memcached.service - memcached daemon
   Loaded: loaded (/usr/lib/systemd/system/memcached.service; enabled; vendor preset: disabled)
   Active: active (running) since 2019-10-31 17:30:44 KST; 4s ago
   Main PID: 7810 (memcached)
   CGroup: /system.slice/memcached.service
           └─7810 /usr/bin/memcached -p 11211 -u memcached -m 64 -c 1024 -l 127.0.0.1,::1,ibcontroller

10 31 17:30:44 ibcontroller systemd[1]: Started memcached daemon.
```

## Etcd



1.

```
# yum install etcd
```

2. /etc/etcd/etcd.conf

- ETCD\_INITIAL\_CLUSTER, ETCD\_INITIAL\_ADVERTISE\_PEER\_URLS, ETCD\_ADVERTISE\_CLIENT\_URLS, ETCD\_LISTEN\_CLIENT\_URLS

IP

```
#[Member]
ETCD_DATA_DIR="/var/lib/etcd/default.etcd"
```



```
ETCD_LISTEN_PEER_URLS="http://10.0.0.11:2380"  
ETCD_LISTEN_CLIENT_URLS="http://10.0.0.11:2379"  
ETCD_NAME="controller"
```

```
#[Clustering]  
ETCD_INITIAL_ADVERTISE_PEER_URLS="http://10.0.0.11:2380"  
ETCD_ADVERTISE_CLIENT_URLS="http://10.0.0.11:2379"  
ETCD_INITIAL_CLUSTER="controller=http://10.0.0.11:2380"  
ETCD_INITIAL_CLUSTER_TOKEN="etcd-cluster-01"  
ETCD_INITIAL_CLUSTER_STATE="new"
```

3.

```
[root@controller ~]# systemctl enable etcd  
Created symlink from /etc/systemd/system/multi-  
user.target.wants/etcd.service to /usr/lib/systemd/system/etcd.service.  
  
[root@controller ~]# systemctl restart etcd  
  
[root@controller ~]# systemctl status etcd  
● etcd.service - Etcd Server  
   Loaded: loaded (/usr/lib/systemd/system/etcd.service; enabled; vendor  
   preset: disabled)  
   Active: active (running) since 2019-11-01 09:03:38 KST; 4s ago  
   Main PID: 25124 (etcd)  
   CGroup: /system.slice/etcd.service  
           └─25124 /usr/bin/etcd --name=ibcontroller --data-  
dir=/var/lib/etcd/default.etcd --listen-client-urls=http://x.x.x.x:2379  
  
11 01 09:03:38 ibcontroller etcd[25124]: raft.node: 7b16f42a620d616e  
elected leader 7b16f42a620d616e at term 2  
11 01 09:03:38 ibcontroller etcd[25124]: setting up the initial cluster  
version to 3.3  
11 01 09:03:38 ibcontroller bash[25124]: INFO: 2019/11/01 09:03:38 dialing  
to target with scheme: ""  
11 01 09:03:38 ibcontroller bash[25124]: INFO: 2019/11/01 09:03:38 could  
not get resolver for scheme: ""  
11 01 09:03:38 ibcontroller etcd[25124]: set the initial cluster version  
to 3.3  
11 01 09:03:38 ibcontroller etcd[25124]: published {Name:ibcontroller  
ClientURLs:[http://x.x.x.x:2379]} to cluster b8be6bb9dc46312a  
11 01 09:03:38 ibcontroller etcd[25124]: enabled capabilities for version  
3.3  
11 01 09:03:38 ibcontroller etcd[25124]: ready to serve client requests  
11 01 09:03:38 ibcontroller systemd[1]: Started Etcd Server.  
11 01 09:03:38 ibcontroller etcd[25124]: serving insecure client requests  
on x.x.x.x:2379, this is strongly discouraged!
```

- <https://docs.openstack.org/install-guide/>
- <https://louky0714.tistory.com/entry/Openstack-Train-Centos%EC%97%90-%EC%84%A4%EC%B9%98%ED%95%98%EA%B8%B0-Step-1-Repository-%EC%84%A4%EC%A0%95>

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