Procedure to Create NFS Share on Nexenta

Prerequisite :

1. **IP Plan with VLAN Details**
2. **Respective VLAN should reserved on SDI**
3. **L2 Gateway connectivity must be established between VM and Nexenta**
4. **Route must be enabled for Storage Network (Application)**

IP Details:

Sr. No	IP Address	Host
1	10.14.3.104	**VIP**
2	10.14.3.103	**Nexenta1**
3	10.14.3.102	**Nexenta2**
4	10.14.3.96	**Network IP**

Steps :

- **Check on CIC, If L2 Gateway configure correctly**

1. *Login on CIC as CEEADM*
2. *Switch to ROOT User* *e.g. ceeadm@cic-1:~$*
   sudo su -
3. *Source Openrc* *e.g. root@cic-1:~#*
   source openrc
4. *Check L2 gateway* *e.g. root@cic-1:~#*
   neutron l2-gateway-list
5. *Check L2 Connection* *e.g. root@cic-1:~#*
   neutron l2-gateway-connection-list | grep -i 2022

Now Setup IPs for NFS Configuration :

- **Create host ID SDS1/nexenta1 (Note: host IP is the VIP IP)**

```
# net list host
# net create host [-nv] <address> <hostname>                    e.g # net create host -
nv 10.14.3.104 nfsemm (dry run)
# net create host [-nv] <address> <hostname>                    e.g # net create host -
v 10.14.3.104 nfsemm
# net list host
```

- **Create link on SDS1/nexenta1**

```
# link list                                                     get interface address
e.g. l2net1 or l2net2
# link create vlan [-nv] <name> <vid> <link>                    e.g. # link create
vlan -nv nfs_emm_2022 2022 l2net2 (dry run)
# link create vlan [-nv] <name> <vid> <link>                    e.g. # link create
vlan -v nfs_emm_2022 2022 l2net2
# link list
```

- **Create IP on SDS1/nexenta1**

```
# ip list
# ip create [-ntv] static <name> <address>                                  e.g # ip create -nv
static nfs_emm_2022/v4 10.14.3.103/28 (dry run)
# ip create [-ntv] static <name> <address>                                  e.g # ip create -v
static nfs_emm_2022/v4 10.14.3.103/28
# ip list
```

- **Add VIP on SDS1/nexenta1(Note: VIP always create on primary Nexenta)**

```
# haservice status                                                           get service details
# haservice add-vip [-nfv] <service> <vip> <address> <nics>                  e.g # haservice add-
vip -nv hapool1 nfsemmvip 10.14.3.104/28 sds01:nfs_emm_2022,sds02:nfs_emm_2022
# haservice add-vip [-nfv] <service> <vip> <address> <nics>                  e.g # haservice add-
vip -v hapool1 nfsemmvip 10.14.3.104/28 sds01:nfs_emm_2022,sds02:nfs_emm_2022
# haservice status
# ip list                                                                    verify if new VIP
reflect
```

- **Create host ID SDS2/nexenta2**

```
# net list host
# net create host [-nv] <address> <hostname>                                 e.g # net create host -
nv 10.14.3.104 nfsemm (dry run)
# net create host [-nv] <address> <hostname>                                 e.g # net create host -
v 10.14.3.104 nfsemm
# net list host
```

- **Create link on SDS2/nexenta2**

```
# link list                                                                  get interface address
e.g. l2net1 or l2net2
# link create vlan [-nv] <name> <vid> <link>                                 e.g. # link create
vlan -nv nfs_emm_2022 2022 l2net2 (dry run)
# link create vlan [-nv] <name> <vid> <link>                                 e.g. # link create
vlan -v nfs_emm_2022 2022 l2net2
# link list
```

- **Create IP on SDS2/nexenta2**

```
# ip list
# ip create [-ntv] static <name> <address>                                  e.g # ip create -nv
static nfs_emm_2022/v4 10.14.3.102/28 (dry run)
# ip create [-ntv] static <name> <address>                                  e.g # ip create -v
static nfs_emm_2022/v4 10.14.3.102/28
# ip list
```

Now Create File system and Share over NFS :

- **Filesystem Create : (Primary Nexenta)**

```
# fs list
# filesystem create [-pnv] [-o <properties>] <filesystem>                   e.g. # filesystem
create -pnv hapool1/MMDB (dry run)
# filesystem create [-pnv] [-o <properties>] <filesystem>                   e.g. # filesystem
create -v hapool1/MMDB
# fs list
```

- **Share on NFS: (Primary Nexenta)**

```
# nfs list | grep <key word>
# nfs get all <filesystem>                                          e.g. # nfs get all
hapool1/MMDB
# nfs share [-nv] [-o <properties>] <filesystem>                    e.g. # nfs share -nv -
o anon=root,sec=sys,rw=@10.14.3.96/28 hapool1/MMDB (dry run)
# nfs share [-nv] [-o <properties>] <filesystem>                    e.g. # nfs share -v -
o anon=root,sec=sys,rw=@10.14.3.96/28 hapool1/MMDB
# nfs get all <filesystem>                                          e.g. # nfs get all
hapool1/MMDB
```

- **Ping VM IPs from all Nexneta**

```
# ping <VM IP >                                                     e.g. # ping 10.14.3.108   (O/P:
10.14.3.108 is alive)
```

- **Ping Nexenta VIP and NFS IPs from all Nexneta**

```
# ip list
```

```
CLI@SDS02> ip list
NAME                            TYPE    STATE  ADDRESS
lo0/v4                          static  ok     127.0.0.1/8
lo0/v6                          static  ok     ::1/128
nfs_emm_2022/nfsemmvip          static  ok     10.14.3.97/28
nfs_emm_2022/v4                 static  ok     10.14.3.99/28
nfs_san_sp_3211/nstornfsvip     static  ok     192.168.20.1/24
nfs_san_sp_3211/v4              static  ok     192.168.20.3/24
nfs_san_sp_3311/nstornfsvipcee2 static  ok     192.168.29.1/24
nfs_san_sp_3311/v4              static  ok     192.168.29.3/24
oam801/mgmt                     static  ok     10.14.11.61/29
```

```
# ping <Nexenta IP >                                                e.g. # ping 10.14.3.99   (O/P:
10.14.3.99 is alive)
```