

## 009-LXC- CREATE PRIVATE NETWORK BETWEEN LXCS

Notebook: <Inbox>

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### LXC- CREATE PRIVATE NETWORK BETWEEN LXCS

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Create a private network bridge by OVS

```
ovs-vsctl add-br bridge1
ip link set bridge1 up
```

Add the line before exit 0 in /etc/rc.local file

```
vi /etc/rc.local
```

---

```
ip link set bridge1 up
```

```
cp /etc/network/bridge0.dn /etc/network/bridge1.dn
cp /etc/network/bridge0.up /etc/network/bridge1.up
```

```
vim /etc/network/bridge1.dn
```

```
:%s/bridge0/bridge1/g; find and replace
```

```
vim /etc/network/bridge1.up
```

```
:%s/bridge0/bridge1/g; find and replace
```

Add the four lines in the lxc config file

```
vim /var/lib/lxc/group1ctl_zfs/config
```

---

```
lxc.network.type = veth
```

```
lxc.network.flags = up
```

```
lxc.network.script.up = /etc/network/bridge1.up
```

```
lxc.network.script.down = /etc/network/bridge1.dn
```

```
lxc-stop -n group1ctl_zfs
```

```
lxc-start -n group1ctl_zfs
```

```
lxc-attach -n group1ctl_zfs
```

Configure an IP 10.10.10.1/24 on eth1 ; which is the private network for private containers

Now create additional two container by importing from previous export file.

```
zfs receive voll/grouplctl_priv1 < /root/grouplctl_zfs.zfs
zfs receive voll/grouplctl_priv2 < /root/grouplctl_zfs.zfs

ln -s /voll/grouplctl_priv1 /var/lib/lxc/
ln -s /voll/grouplctl_priv2 /var/lib/lxc/
```

---

Now open,

```
vim /var/lib/lxc/groupXctY_priv1/config
lxc.rootfs = /var/lib/lxc/groupXctY_priv1/rootfs
;and change container path
```

Also Modify the following two lines as replace "bridge0" by "bridge1"

```
lxc.network.script.up = /etc/network/bridge1.up
lxc.network.script.down = /etc/network/bridge1.dn
```

open,

```
vim /var/lib/lxc/groupXctY_priv1/config
lxc.rootfs = /var/lib/lxc/groupXctY_priv2/rootfs
;and change container path
```

Also Modify the following two lines as replace "bridge0" by "bridge1"

```
lxc.network.script.up = /etc/network/bridge1.up
lxc.network.script.down = /etc/network/bridge1.dn
```

---

Now start those new two container

```
lxc-start -n grouplctl_priv1 -d
lxc-start -n grouplctl_priv2 -d
```

Configure an IP 10.10.10.11/24 and Gateway 10.10.10.1 inside container grouplctl\_priv1

Configure an IP 10.10.10.12/24 and Gateway 10.10.10.1 inside container grouplctl\_priv2

Now verify the communication as follows;

```
do ping from 10.10.10.1 to 10.10.10.11 & vise-versa
do ping from 10.10.10.1 to 10.10.10.12 & vise-versa
```

```
do ping from 10.10.10.11 to 10.10.10.1 & vise-versa
do ping from 10.10.10.11 to 10.10.10.12 & vise-versa
```

```
do ping from 10.10.10.12 to 10.10.10.1 & vise-versa
```

*do ping from 10.10.10.12 to 10.10.10.11 & vise-versa*