

LXC ZFS Snapshot and Replication

Here we will replicate a container from node:group1-node1 to node:group1-node3

ZFS: On source node...

```
zfs snapshot -r vol1/group1ct1_zfs@v1
zfs list -rt snapshot
zfs list -rt snapshot |grep group1ct1_zfs
zfs send -R vol1/group1ct1_zfs@v1 | ssh root@192.168.108.13 -p 22 "zfs receive -dvF vol1"
```

ZFS: On target node...

```
zfs list
ln -s /vol1/group1ct1_zfs /var/lib/lxc
```

`lxc-ls --fancy`

Send More Snapshots...

ZFS: On source node...

`zfs snapshot -r vol1/group1ct1_zfs@v2`

`zfs send -l vol1/group1ct1_zfs@v1 -R vol1/group1ct1_zfs@v2 | ssh root@192.168.108.13 -p 22 "zfs recv -dvF vol1"`

ZFS: On target node

`zfs list`

To destroy a ZFS snapshot

`zfs destroy -r vol1/group1ct1_zfs@v1`

Role back from Old snapshot

`zfs rollback -r vol1/group1ct1_zfs@v2`

ZFS: Export and Import

Export:

```
zfs send vol1/group1ct1_zfs@v2 > /root/group1ct1_zfs.zfs
```

Import:

```
zfs receive vol1/test < /root/group1ct1_zfs.zfs
```

ZFS clone

```
zfs clone vol1/group1ct1_zfs@v2 vol1/test2
```

LXC Limiting CPU,Memory

```
vim /var/lib/lxc/group1ct1_zfs/config
```

Add the following two lines;

```
lxc.cgroup.memory.limit_in_bytes = 2560M
```

```
lxc.cgroup.cpuset.cpus = 0,1
```

ZFS: Set Quota To Limit Disk Space of LXC

```
zfs set quota=8G vol1/group1ct1_zfs
```

To expand the storage for the LXC container

```
zfs set quota=12G vol1/group1ct1_zfs
```

LXC-Webpanel

To install a lxc minimal management GUI

```
apt-get install python-setuptools
```

```
wget https://lxc-webpanel.github.io/tools/install.sh -O - | bash
```

Now access the gui panel by <http://192.168.108.11:5000>

Default User: admin & Default Password: admin