

Step#0 : Automate SSH login from source-node to destination node  
- many of one way

#In node#1

Open Two Terminal Tab:

In Terminal Tab#1 run- sudo su

In Terminal Tab#2 ssh to the target host using root user

#In Tab#1 (aka source node)

`cd /root/`

`ssh-keygen -t rsa` ; press enter if anything asked

`vim /root/.ssh/id_rsa.pub` ; copy content

#In Tab#2 (aka target node)

#Now check the folder /root/.ssh ; if not exists the folder .ssh

```
mkdir /root/.ssh
```

```
vim /root/.ssh/authorized_keys ; past the content which copied from source node tab
```

#Test connection from source-node

```
ssh root@192.168.108.13 -p 22 ; this should not ask any password
```

Step#01 : Destroy All Existing Snapshot from the source node

```
zfs list -rt snapshot -o name |grep vol1/group1ct1_zfs@ |sort |head -n -0 |xargs -n 1 zfs destroy -r
```

Step#02 : Create and Send Initial Snapshot Manually

```
date_time=`date +%Y%m%d-%H%M%S`;
```

```
zfs snapshot -r vol1/group1ct1_zfs@$date_time;
```

```
zfs send -R vol1/group1ct1_zfs@$date_time | ssh root@192.168.108.13 -p 22 zfs recv -dvF vol1;
```

```
echo $date_time > /vol1/sysconfig/group1ct1_zfs_lid;
```

Step#03 : Create Automated Script as follows

```
zfs create vol1/sysconfig
```

```
vim /vol1/sysconfig/auto_replication.sh ; write down the following content and exit
```

```
#!/bin/bash
```

```
zfs list -rt snapshot -o name |grep vol1/group1ct1_zfs@ |sort |head -n -300 |xargs -n 1 zfs  
destroy -r 2> /dev/null;
```

```
date_time=`date +%Y%m%d-%H%M%S`;
```

```
zfs snapshot -r vol1/group1ct1_zfs@$date_time;
```

```
new_snap_id="vol1/group1ct1_zfs@$date_time";
```

```
old_snap_id=`cat /vol1/sysconfig/group1ct1_zfs_lid`;
```

```
zfs send -l vol1/group1ct1_zfs@$old_snap_id -R $new_snap_id | ssh root@192.168.108.13 -p 22 zfs  
recv -dvF vol1;
```

```
echo $date_time > /vol1/sysconfig/group1ct1_zfs_lid;
```

```
chmod +x /vol1/sysconfig/auto_replication.sh
```

Step#04 : Add this script in /etc/crontab

```
vim /etc/crontab
```

```
*/5 * * * * root /vol1/sysconfig/auto_replication.sh
```

