

010_ZFS Automatic replication

Notebook: <Inbox>

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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 voll/group1ctl_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 voll/group1ctl_zfs@$date_time;
```

```
zfs send -R voll/group1ctl_zfs@$date_time | ssh root@192.168.108.13 -p 22 zfs recv -dvF voll;
```

```
echo $date_time > /voll/sysconfig/group1ctl_zfs_lid;
```

Step#03 : Create Automated Script as follows

```
zfs create voll/sysconfig
```

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

```
#!/bin/bash
zfs list -rt snapshot -o name |grep voll/group1ctl_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 voll/group1ctl_zfs@$date_time;
new_snap_id="voll/group1ctl_zfs@$date_time";
old_snap_id=`cat /voll/sysconfig/group1ctl_zfs_lid`;
zfs send -I voll/group1ctl_zfs@$old_snap_id -R $new_snap_id | ssh root@192.168.108.13 -p 22 zfs
recv -dvF voll;
echo $date_time > /voll/sysconfig/group1ctl_zfs_lid;
```

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

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

```
vim /etc/crontab
```

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