#!/bin/bash

set -x

#export JAVA\_HOME=/usr

export AWS\_ACCESS\_KEY\_ID=" "

export AWS\_SECRET\_ACCESS\_KEY=" "

REGION=us-east-1

VOLUMES\_LIST=/opt/scripts/client1/volumes-list

SNAPSHOT\_INFO=/opt/scripts/client1/snapshot\_info.txt

DATE=`date +%Y-%m-%d`

#Snapshots Retention Period for each volume snapshot

RETENTION=10

SNAP\_CREATION=/opt/scripts/client1/snap\_creation

SNAP\_DELETION=/opt/scripts/client1/snap\_deletion

EMAIL\_LIST=dan.hollander@iqvia.com

echo "List of Snapshots Creation Status" > $SNAP\_CREATION

echo "List of Snapshots Deletion Status" > $SNAP\_DELETION

#Check whether the volumes list file is available or not?

if [ -f $VOLUMES\_LIST ];

then

#Creating Snapshot for each volume using for loop

for VOL\_INFO in `cat $VOLUMES\_LIST`

do

#Getting the Volume ID and Volume Name into the Separate Variables.

VOL\_ID=`echo $VOL\_INFO | awk -F":" '{print $1}'`

#VOL\_ID=`echo $VOL\_INFO | awk '{print $1}'`

VOL\_NAME=`echo $VOL\_INFO | awk -F":" '{print $2}'`

#VOL\_NAME=`echo $VOL\_INFO | awk '{print $2}'`

#Creating the Snapshot of the Volumes with Proper Description.

DESCRIPTION="${VOL\_NAME}\_SNAPSHOT\_${DATE}"

aws ec2 create-snapshot --volume-id $VOL\_ID --description "$DESCRIPTION" --region $REGION &>> $SNAP\_CREATION

done

else

echo "Volumes list file is not available : $VOLUMES\_LIST Exiting." | /usr/bin/mail -r "Company1 Alert alerts@company1.com" -s "Snapshots Creation Status" $EMAIL\_LIST

exit 1

fi

echo >> $SNAP\_CREATION

echo >> $SNAP\_CREATION

#Deleting the Snapshots which are 10 days old.

for VOL\_INFO in `cat $VOLUMES\_LIST`

do

#Getting the Volume ID and Volume Name into the Separate Variables.

VOL\_ID=`echo $VOL\_INFO | awk -F":" '{print $1}'`

#VOL\_ID=`echo $VOL\_INFO | awk '{print $1}'`

VOL\_NAME=`echo $VOL\_INFO | awk -F":" '{print $2}'`

#VOL\_NAME=`echo $VOL\_INFO | awk '{print $2}'`

#Getting the Snapshot details of each volume.

aws ec2 describe-snapshots --query Snapshots[\*].[SnapshotId,VolumeId,Description,StartTime] --output text --filters "Name=status,Values=completed" "Name=volume-id,Values=$VOL\_ID" | grep -v "CreateImage" >> $SNAPSHOT\_INFO

#Snapshots Retention Period Checking and if it crosses delete them.

while read SNAP\_INFO

do

SNAP\_ID=`echo $SNAP\_INFO | awk '{print $1}'`

#SNAP\_DATE=`echo $SNAP\_INFO | awk -F'\t' '{print $4}' | awk -F"T" '{print $1}'`

SNAP\_DATE=`echo $SNAP\_INFO | awk '{print $4}' | awk -F"T" '{print $1}'`

#Getting the no.of days difference between a snapshot and present day.

RETENTION\_DIFF=`echo $(($(($(date -d "$DATE" "+%s") - $(date -d "$SNAP\_DATE" "+%s"))) / 86400))`

#Deleting the Snapshots which are older than the Retention Period

if [ $RETENTION -lt $RETENTION\_DIFF ];

then

aws ec2 delete-snapshot --snapshot-id $SNAP\_ID --region $REGION --output text> /tmp/snap\_del

echo DELETING $SNAP\_INFO >> $SNAP\_DELETION

fi

done < $SNAPSHOT\_INFO

done

echo >> $SNAP\_DELETION

#Merging the Snap Creation and Deletion Data

cat $SNAP\_CREATION $SNAP\_DELETION > /opt/scripts/client1/mail\_update

#Sending the mail Update

cat /opt/scripts/client1/mail\_update | /bin/mailx -s "Snapshots Creation and Deletion Status" $EMAIL\_LIST