**High CPU Usage Script**

At times, we need to monitor the high CPU usage in the system. We can use the below script to monitor the high CPU usage.

*#!/bin/bash  
while [ true ] ;do  
used=`free -m |awk 'NR==3 {print $4}'`  
  
if [ $used -lt 1000 ] && [ $used -gt 800 ]; then  
echo "Free memory is below 1000MB. Possible memory leak!!!" | /bin/mail -s "HIGH MEMORY ALERT!!!" user@mydomain.com  
  
  
fi  
sleep 5  
done*

**Database Backup**

This script is a pretty basic script useful in backing up the database.

*#!/bin/sh  
now="$(date +'%d\_%m\_%Y\_%H\_%M\_%S')"  
filename="db\_backup\_$now".gz  
backupfolder="/var/www/vhosts/example.com/httpdocs/backups"  
fullpathbackupfile="$backupfolder/$filename"  
logfile="$backupfolder/"backup\_log\_"$(date +'%Y\_%m')".txt  
echo "mysqldump started at $(date +'%d-%m-%Y %H:%M:%S')" >> "$logfile"  
mysqldump --user=mydbuser--password=mypass --default-character-set=utf8 mydatabase | gzip > "$fullpathbackupfile"  
echo "mysqldump finished at $(date +'%d-%m-%Y %H:%M:%S')" >> "$logfile"  
chown myuser "$fullpathbackupfile"  
chown myuser "$logfile"  
echo "file permission changed" >> "$logfile"  
find "$backupfolder" -name db\_backup\_\* -mtime +8 -exec rm {} \;  
echo "old files deleted" >> "$logfile"  
echo "operation finished at $(date +'%d-%m-%Y %H:%M:%S')" >> "$logfile"  
echo "\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*" >> "$logfile"  
exit 0*

**Disk usage**

This script will be useful to analyze the disk usage and if the reported disk space is more than 90 % an email will be sent to the administrator.

*# Shell script to monitor or watch the disk space  
# It will send an email to $ADMIN, if the (free available) percentage of space is >= 90%.  
# -------------------------------------------------------------------------  
# Set admin email so that you can get email.  
ADMIN="root"  
# set alert level 90% is default  
ALERT=90  
# Exclude list of unwanted monitoring, if several partions then use "|" to separate the partitions.  
# An example: EXCLUDE\_LIST="/dev/hdd1|/dev/hdc5"  
EXCLUDE\_LIST="/auto/ripper"  
#  
#::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::::  
#  
function main\_prog() {  
while read output;  
do  
#echo $output  
 usep=$(echo $output | awk '{ print $1}' | cut -d'%' -f1)  
 partition=$(echo $output | awk '{print $2}')  
 if [ $usep -ge $ALERT ] ; then  
 echo "Running out of space \"$partition ($usep%)\" on server $(hostname), $(date)" | \  
 mail -s "Alert: Almost out of disk space $usep%" $ADMIN  
 fi  
done  
}  
if [ "$EXCLUDE\_LIST" != "" ] ; then  
 df-H | grep -vE "^Filesystem|tmpfs|cdrom|${EXCLUDE\_LIST}" | awk '{print $5 " " $6}' | main\_prog  
else  
 df -H | grep -vE "^Filesystem|tmpfs|cdrom" | awk '{print $5 " " $6}' | main\_prog  
fi*