Sudu su

Setting up the ubuntu environment.

* sudo apt-get update
* sudo apt-get install sysstat
* sudo apt-get install ssmtp
* vi /etc/ssmtp/ssmtp.conf

root=your\_email@gmail.com

mailhub=smtp.gmail.com:465

FromLineOverride=YES

AuthUser=your\_email@gmail.com

AuthPass=your\_password

UseTLS=YES

* echo “your text” | ssmtp your\_receiver@gmail.com

Testing.

Create folder and file,

SCRIPTS

touch CpuAlert.sh

chmod +x CpuAlert.sh

vi CpuAlert.sh

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#!/bin/bash

cpuuse=`sar -P ALL 1 2 |grep 'Average.\*all' |awk -F" " '{print 100.0 -$NF}'`

if [ "$cpuuse" -ge 80 ]; then

SUBJECT="ATTENTION: CPU load is high on $(hostname) at $(date)"

MESSAGE="/tmp/Mail.out"

TO="destination email"

  echo "CPU current usage is: $cpuuse%" >> $MESSAGE

  echo "" >> $MESSAGE

  echo "+------------------------------------------------------------------+" >> $MESSAGE

  echo "Top 5 Processes which consuming high CPU" >> $MESSAGE

  echo "+------------------------------------------------------------------+" >> $MESSAGE

  echo "$(ps -eo pcpu,pid,user,args | sort -k 1 -r | head -6)" >> $MESSAGE

  mail -s "$SUBJECT" "$TO" < $MESSAGE

  rm /tmp/Mail.out

  fi

To execute

sh -x CpuAlert.sh

Enable Crontab

crontab -e

\*/1 \* \* \* \* /bin/bash /home/ubuntu/SCRIPTS/CpuAlert.sh

For Stress Testing,

dd if=/dev/zero of=/dev/null

/dev/zero provides an endless stream of zero bytes when read. This function is provided by the kernel and does not require allocating memory. All writes to /dev/null are dropped silently.

As a result, when you perform the dd, the system generates 500 megabytes in zero bytes that simply get discarded. Except for a temporary buffer, no data are stored before, during, or after this operation.

The speed of the transfer from /dev/zero to /dev/null is determined primarily by the speed of your processor and relevant system calls. (In your case, the buffer is 500 MB large, and hence the operation tests the speed of your memory as well.)

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