**Step # 1: First get disk space:**

**$ df -H**

Output:

Filesystem Size Used Avail Use% Mounted on

/dev/hdb1 20G 14G 5.5G 71% /

tmpfs 394M 4.1k 394M 1% /dev/shm

/dev/hdb5 29G 27G 654M 98% /nas/www

**Step # 2: Next filter out filesystem and find out the percentage of space**

$ df -H | grep -vE '^Filesystem|tmpfs|cdrom' | awk '{ print $5 " " $1 }'

Output:

71% /dev/hdb1

98% /dev/hdb5

**Step # 3: Write a shell script**

Above command displays field 5 and 1 of df command. Now all you need to do is write a script to see if the percentage of space is >= 90% (download [script](https://bash.cyberciti.biz/monitoring/monitor-disk-space-alert.bash.php)):

#!/bin/sh

df -H | grep -vE '^Filesystem|tmpfs|cdrom' | awk '{ print $5 " " $1 }' | while read output;

do

echo $output

usep=$(echo $output | awk '{ print $1}' | cut -d'%' -f1 )

partition=$(echo $output | awk '{ print $2 }' )

if [ $usep -ge 90 ]; then

echo "Running out of space \"$partition ($usep%)\" on $(hostname) as on $(date)" |

mail -s "Alert: Almost out of disk space $usep%" you@somewhere.com

fi

done

**Setup Cron job**

Save and install script as [cronjob](https://www.cyberciti.biz/faq/how-do-i-add-jobs-to-cron-under-linux-or-unix-oses/). Copy script to /etc/cron.daily/ (script [downolad link](https://bash.cyberciti.biz/monitoring/monitor-disk-space-alert.bash.php))  
# cp diskAlert /etc/cron.daily/  
# chmod +x /etc/cron.daily/diskAlert

OR install as cronjob:  
crontab -e

Write cronjob as per your requirement  
10 0 \* \* \* /path/to/diskAlert

**Updated script version**

Tony contributed and updated my script – You can exclude selected filesystem in case you don’t want monitor all filesystems.

#!/bin/sh

# set -x

# 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