Documentation
for
rax_status_df Script
Version 1.0
September 28, 2003, revised February 27, 2004

1.0   General Information

One ksh script is provided. This script monitors how full the various partitions on the RFC Archive Linux box (RAX) are and notifies the use when any partition exceeds 85%. The script uses the awk command and the linux df command. The files for this script are:

> rax_status_df (ksh script)
> step1-df.awk (awk command file)
> step2-df.awk (awk command file)

The rax_status_df script is intended to be a cron job run by user oper.

2.0   Configuration Information

rax_status_df script

One apps_defaults token is used by this script, this is:

adb_dir   name of the directory where RFC Archive apps and other files are stored on the archive system

oper's cron

This script should be executed by oper as part of its cron on the archive system. In this way this script can by executed on a routine basis.

Example cron entries are shown below.

```
#5#  DB and System admin scripts
16 12 * * * /rfc_arc/scripts/sysadmin/rax_status_df
```

"housecleaning" requirements

The log file for this script will occasionally need to be downsized. It is recommended that an entry to "houseclean" this log file be added to the purge_files that oper's cron is already

running. Example of what this entry might look like is shown below.

```
#shrink rax_status_df log file
CHKRAX=$ARCDIR/logs/sysadmin
cd $CHKRAX
tail -40 chkdisk_rpt.log > bozoB
rm chkdisk_rpt.log
mv bozoB chkdisk_rpt.log
```

3.0   The Script

This script runs the linux df command and checks the output for partitions that are greater than 85% full. If any partitions exceed 85% full a message is created and sent to the printer. The user may wish to do something other then send this message to the printer such as send the message to the textdb and use the alert/alarm feature or the user may wish to include this in a netscape monitoring webpage the office may be using. The script and the awk command files are located in the directory /rfc_arc/scripts/sysadmin. It is recommended this script be run once per day.

Log File

The script adds a single entry each day to the log file chkdisk_rpt.log. This file is located in the directory /rfc_arc/logs/sysadmin. An example of this log file is shown below.

```
Wed Sep 24 12:15:01 UTC 2003 - all rax directories <= 85% full
Thu Sep 25 12:15:00 UTC 2003 - all rax directories <= 85% full
Fri Sep 26 12:15:00 UTC 2003 - all rax directories <= 85% full
Sat Sep 27 12:15:00 UTC 2003 - all rax directories <= 85% full
Sun Sep 28 12:15:00 UTC 2003 - all rax directories <= 85% full
```

Message File

The most recent message created is always available for viewing. The disksp-rpt.txt file is also located in the directory /rfc_arc/logs/sysadmin. Examples of file contents for <= 85% and > 85% are shown.

All partitions <= 85%

```
Filesystem          1k-blocks      Used Available Use% Mounted on
/dev/sda7            2015984     462436   1451140  25% /
/dev/sda1              46453      13405     30650  31% /boot
/dev/sda11         331066756   13078516 301170940   5% /data
/dev/sda6            2015984      34096   1879480   2% /local
none                  514208          0    514208   0% /dev/shm
/dev/sda2           10080364     104744   9463556   2% /rfc_arc_data
/dev/sda9             255660       8246    234214   4% /tmp
/dev/sda3            4032064    3085288    741952  81% /usr
/dev/sda10            255660     199122     43338  83% /var
```

```
ds-krf:/home              5734400    2936728    2630056   53% /home
ds-krf:/awips/hydroapps/lx/public
                                      18432000   14118928    4061528    78%
/awips/hydroapps/lx/public
ds-krf:/data/fxa/ispan/hydro_adbs
                          5427200    2420424    2836920   47% /rfc_arc_data/q/raw
/dev/sda5                 2015984     177464    1736112   10% /rfc_arc
px2f:/px2data                   0          1          0    0% /px2data
```

<u>one or more partitions > 85%</u>

```
>>>>>   CHECKING DISK SPACE ON RAX   <<<<<

 Sun Sep 28 16:20:06 UTC 2003

 The following directories are more than 85% full:
   /usr         86
   /var         89


>>>>>>>>>>>> End of Report <<<<<<<<<<<<
```

4.0   Troubleshooting Information

For this script, check out the log and output files. When the cron runs this script any "surprise" errors will be in user oper's mailbox on the RAX. Normally user oper should not have any mail from this script.

5.0   Maintenance Information

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