/ boot configuration

Debian TS-WXL

next,,,



Execute from "/ boot configuration" on P154 of SoftwareDesign 2010/1 (Amazon) . The procedure is slightly different.

Mount / boot

root@TS-WXL3B3:/# mkdir /tmp/boot root@TS-WXL3B3:/# mount -t ext3 /dev/sdb1 /tmp/boot kjournald starting. Commit interval 5 seconds EXT3 FS on sdb1, internal journal EXT3-fs: mounted filesystem with ordered data mode. root@TS-WXL3B3:/#

Deployment of initrd.buffalo

Remove header

root@TS-WXL3B3:/boot# dd if=initrd.buffalo of=/tmp/initrd.gz bs=64 skip=1 145251+1 records in 145251+1 records out root@TS-WXL3B3:/boot#

Restoring initrd

root@TS-WXL3B3:/boot# cd /tmp root@TS-WXL3B3:/tmp# gunzip initrd.gz gunzip: write: No space left on device gunzip: error inflating root@TS-WXL3B3:/tmp#

Haha Elsewhere.

root@TS-WXL3B3:/tmp# df Used Available Use% Mounted on Filesystem 1k-blocks 4921404 522964 4148444 11% / /dev/md1 /dev/ram1 15360 6080 60% /mnt/ram /dev/md0 991928 167888 824040 17% /boot /dev/disk2_6 473337664 592 473337072 0% /mnt/disk2 /dev/sdb1 991928 168208 823720 17% /mnt/ram/boot root@TS-WXL3B3:/tmp# mkdir /mnt/disk2/wk root@TS-WXL3B3:/tmp# mv initrd.gz !\$ mv initrd.gz /mnt/disk2/wk root@TS-WXL3B3:/tmp# cd !\$ cd /mnt/disk2/wk root@TS-WXL3B3:/mnt/disk2/wk# gunzip initrd.gz root@TS-WXL3B3:/mnt/disk2/wk#

Mount initrd

root@TS-WXL3B3:/mnt/disk2/wk# mkdir /tmp/root mkdir: cannot create directory '/tmp/root': File exists root@TS-WXL3B3:/mnt/disk2/wk# mount -o loop initrd /tmp/root mount: cannot setup loop device: No such file or directory root@TS-WXL3B3:/mnt/disk2/wk#

Create a loop device

root@TS-WXL3B3:/mnt/disk2/wk# mknod /dev/loop0 b 7 0 root@TS-WXL3B3:/mnt/disk2/wk# !mount mount -o loop initrd /tmp/root root@TS-WXL3B3:/mnt/disk2/wk# 1s !\$

```
1s /tmp/root
                        lost+found root
bin
                                                  share
                                                              usr
            lib
debugtool
                         mnt
                                     rootfs
                                                  svs
                                                              var
dev
            linuxrc
                         proc
                                     sbin
                                                  tmp
                                                              WWW
root@TS-WXL3B3:/mnt/disk2/wk#
```

Good grief

Editing linuxre

```
The ones introduced in SD magazine are for single drives.
Add miconapl for RAID machine and TS-WXL.
root@TS-WXL3B3:/mnt/disk2/wk# cd /tmp/root
root@TS-WXL3B3:/tmp/root# mv linuxrc linuxrc.orig
root@TS-WXL3B3:/tmp/root# vi linuxrc
root@TS-WXL3B3:/tmp/root# cat !$
cat linuxrc
#!/bin/sh
export PATH=/sbin:/bin:/usr/sbin:/usr/bin:/usr/local/bin:/usr/local/sbin
echo "---- in hackkit linuxrc ---"
mount proc /proc -t proc
mount sysfs /sys -t sysfs
  /usr/local/lib/libsys
{\tt SetupNasFeature}
ldconfig
depmod
. /etc/nas feature
/etc/init.d/startSysMd.sh
echo "0x901" > /proc/sys/kernel/real-root-dev
/usr/local/sbin/miconapl -a serialmode console
umount /sys
umount /proc
umount -a
exit 0
root@TS-WXL3B3:/tmp/root#
Match the mode
root@TS-WXL3B3:/tmp/root# ls -1 linuxrc*
                                      413 Mar 7 13:43 linuxrc
-rw-r--r--
             1 root root
-rwxr-xr-x
              1 root
                                     10133 Jan 8 21:30 linuxrc.orig
                         root
root@TS-WXL3B3:/tmp/root#
that? Is 755 okay?
root@TS-WXL3B3:/tmp/root# chmod 755 linuxrc
root@TS-WXL3B3:/tmp/root# !ls
ls -l linuxrc*
-rwxr-xr-x 1 root
-rwxr-xr-x 1 root
                                       413 Mar 7 13:43 linuxrc
                         root
                                     10133 Jan 8 21:30 linuxrc.orig
```

Create initrd.buffalo

root@TS-WXL3B3:/tmp/root#

Unmount

```
root@TS-WXL3B3:/tmp/root# cd /
root@TS-WXL3B3:/# umount /tmp/root
root@TS-WXL3B3:/#
```

initrd compression

```
root@TS-WXL3B3:/# cd /mnt/disk2/wk/
root@TS-WXL3B3:/mnt/disk2/wk# ls
initrd
root@TS-WXL3B3:/mnt/disk2/wk# gzip initrd
root@TS-WXL3B3:/mnt/disk2/wk#
```

Create initrd.buffalo

```
root@TS-WXL3B3:/mnt/disk2/wk# mv /tmp/boot/initrd.buffalo /tmp/boot/initrd.buffalo.orig
root@TS-WXL3B3:/mnt/disk2/wk# mkimage -A ARM -O Linux -T ramdisk -C gzip -a 0x000000000 -e 0x000000000 -n initrd -d initrd.gz /tmp/boot/initrd.buffalo
Image Name: initrd
Created: Sun Mar 7 13:57:07 2010
Created(epoc):1267937827
Image Type: ARM Linux RAMDisk Image (gzip compressed)
Data Size: 9237387 Rytes = 9020 89 kB = 8 81 MB
```

Load Address: 0x00000000 Entry Point: 0x00000000

root@TS-WXL3B3:/mnt/disk2/wk#

Unmount

root@TS-WXL3B3:/# umount /tmp/boot root@TS-WXL3B3:/#

Starting Debian

Power OFF

Press and hold the power button to turn off the power

Replace HDD

Unmounting old root

Remove HDD2 and use only HDD1

Power ON

```
2555068 bytes read
   Image Name: Linux-2.6.22.18-mv78100
                 2010-02-04 2:14:52 UTC
ARM Linux Kernel Image (uncompressed)
   Created:
   Image Type:
   Data Size: 2555004 Bytes = 2.4 MB
   Load Address: 00008000
Entry Point: 00008000
9237451 bytes read
   Image Name:
                 initrd
                  2010-03-07
                               4:57:07 UTC
   Created:
                  ARM Linux RAMDisk Image (gzip compressed)
   Image Type:
   Data Size:
                  9237387 Bytes = 8.8 MB
   Load Address: 00000000
   Entry Point: 0000000
I read the initrd that I made this time
---- in hackkit linuxrc ---
-- rebuild mdadm.conf for BOOT, ROOTFS with Intelligent routine --
kjournald starting. Commit interval 5 seconds EXT3-fs: mounted filesystem with ordered data mode.
mount: mounting /dev/disk2_1 on /tmp/boot_test failed: No such device or address GetMdBaseDisk : Selected 1
md: md10 stopped.
md: bind
raid1: raid set md10 active with 1 out of 2 mirrors
mdadm: /dev/md10 has been started with 1 drive (out of 2).
md: md1 stopped.
md: bind
raid1: raid set md1 active with 1 out of 2 mirrors
mdadm: /dev/md1 has been started with 1 drive (out of 2).
md: md0 stopped.
md: bind
raid1: raid set md0 active with 1 out of 2 mirrors
mdadm: /dev/md0 has been started with 1 drive (out of 2).
-- setup max error counts --
/sys/block/md0/md/maxerr_cnt is setted to 20
/sys/block/md1/md/maxerr_cnt is setted to 20
/sys/block/md10/md/maxerr_cnt is setted to 20
err: RecvPacket: readlen=0.
umount: cannot open /proc/mounts
in / linuxrc.
An error occurred during unmounting.
Shouldn't / proc be mounted first?
Continued
kjournald starting. Commit interval 5 seconds
EXT3-fs warning: maximal mount count reached, running e2fsck is recommended
EXT3 FS on md1, internal journal
EXT3-fs: mounted filesystem with ordered data mode.
VFS: Mounted root (ext3 filesystem).
Trying to move old root to /initrd ... /initrd does not exist. Ignored.
Missing / initrd?
```

```
INIT: version 2.86 booting
Setting the system clock.
Cannot access the Hardware Clock via any known method.
Use the --debug option to see the details of our search for an access method.
Unable to set System Clock to: Sun Mar 7 23:27:07 JST 2010 (warning).
Activating swap...done.
Setting the system clock.
Cannot access the Hardware Clock via any known method.
Use the --debug option to see the details of our search for an access method.
Unable to set System Clock to: Sun Mar 7 23:27:07 JST 2010 (warning).
Error accessing system clock
Cleaning up ifupdown....
Loading kernel modules...done.
Checking file systems...fsck 1.41.3 (12-Oct-2008)
Setting kernel variables (/etc/sysctl.conf)...Unknown HZ value! (81) Assume 100.
This must have been stopped
done.
Mounting local filesystems...mount: special device /dev/md0 does not exist
failed.
Is there no device?
Activating swapfile swap...done.
Setting up networking....
Configuring network interfaces...eth0: link down
eth0: started
done.
INIT: Entering runlevel: 2
Starting enhanced syslogd: rsyslogdeth0: link up, full duplex, speed 1 Gbps
Starting periodic command scheduler: crond.
Debian GNU/Linux 5.0 tswxl ttyS0
```

tswxl login:

For the time being, debian is coming to TeraStation TS-WXL!

but,,,

The key doesn't work when I try to log in. why?



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TS-WXL

/ composition

Hack of record LinkStation / KuroBox trying to hack

Issues of debianization