

Re: rebuild 240v from scratch

>>> the pointer to the metadvice rootfilesystem.
>>>
>>> /etc/vfstab must reference the metadvicees.
>>>
>>> A valid and correct metadabase must exist that translates
>>> the metadvice root–referens from /etc/system to a physical
>>> disc/partition number.
>>>
>>> The error seems to say that the /etc/system file that you copied
>>> over from server A with its root metadvice pointer could not
>>> find a metadb on server B to resolve it to a physical partition.
>>>
>>> //Lars
>>>
>> I did "not" create a new set of devices, that is correct. I did modify the
>> newly
>> restored vfstab to reference the /dev/dsk/cXXXXXXXXX etc, and commented out
>> the metadvice references. The reason for this was I am unfamiliar with
>> metadvicees
>> and most of my systems have a boot drive and a mirror drive that I manually
>> create/update
>> every month with a script using the dd command.
>>
>> Must I therefore modify the /etc/system file. Is this possible by hand?
>>
>> What is the best practice when trying to restore this box. As it is right
>> now I am trying to
>> boot from the mirror drive on a server "B". Should I install Sol 10 copying
>> partitions to
>> match server "A", then use volume manager to create the mirror.
>>
>> The vendor who supplied the system wasn't much help. They had said to
>> backup server "A"
>> and restore to server "B". Unfortunatley, our netbackup software isn't
>> compatable with
>> Solaris 10 yet and no standalone DLT's avail anymore. I was using
>> ufsdump/restore across network
>> but I am having to restore to a mounted mirror drive. This seems rather
>> convoluted!
>>
>>
>> thanks for the advice can you now please answer my new questions?
>>
>> Thanks
>>
>> Mike Dundas
>
>
> Mike,
>

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- > I Understnad then that you need some sort of crash course in volume
- > manager
- > to be able to get this system back online Here it is as good as I can
- > make it.
- > READ All of this before you try to do it :-)
- >
- > To recapitulate you replaced the c0t0d0 disk drive and was force
- > to restore
- > the c0t1d0 drive because the root partition was corrupted.
- > (this was a very bad series of events that led to both mirrors being
- > destroyed at the same time)
- >
- > so to get this system back at all you reinstalled solaris on c0t0d0
- > and started
- > a restore of c0t1d0 by copying filesystems from an identical server .
- >
- > Question now is in what state are your metadevice databases after all
- > this
- > has taken place.
- > I think you should Login to you working server A and run
- >
- > metadb -i
- >
- > and
- >
- > metastat
- >
- > this will show you what the config is supposed to look like.
- >
- > Try to verify if the metadb parttions shown by metadb still exists
- > on
- > server B, try to run metadb -i on server B to check if there is a
- > remnant
- > of the previous metadb configuration left on the system.
- > If metadb dosent work at this point on server B use
- > prtvtoc /dev/rdisk/cXtXdXs2 to list the partion info on each disk.
- > It is likely that you have lost the metadb partitions on you two
- > system
- > disks at this point as you have reinstalled them and that they still
- > exist on
- > you two data disk.
- > Probably the easiest thing to to at this point is to erase the old
- > metadb
- > information that may still exist on server B
- >
- > metadb -d -f devicename (for all of them)
- >
- > After you have removed the remainng metadb partitions I suggest that
- > you do exactly as you tried to do from the beginnig.
- > Copy the System partitions from server A to the second disc
- > on server B. Also create the metadb partition on disk2

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- > Install the bootstrap on the second disk.
- > Then Edit /etc/vfstab and /etc/system so that all info regarding
- > Volume manager is deleted from these files (i.e. a Vanilla /etc/system
- >
- > and /etc/vfstab)
- > Then verify that you can boot standalone on server B's second disk.
- > Next copy the VTOC of the second disk to the first systemdisk
- >
- > Probably: (you actual devicenames may vary)
- >
- > prtvtoc /dev/rdisk/c0t1d0s2 > /disk2.vtoc
- > fmthard -s /disk2.vtoc /dev/rdisk/c0t0d0s2
- >
- > Now the Partions layouts should be identical.
- >
- > nOW YOU NEED TO RESTABLISH THE metadb PARTITIONS
- >
- >
- >
- > Read the metadb manual page carefully.
- >
- > then probably
- >
- > metadb -a -f c0t0d0sX c0t1d0sX C0t2d0sX c0t3d0sX
- >
- > metadb -i should now show four valid metadb devices
- >
- > then you need to create one way mirrors for all the active partitions
- > on the
- > systemdisk an maybe the datadisks to if these are to be mirrored.
- >
- > READ the example section of the metainit(1M) man page carefully
- > You need to to this with the devicenames from you SECOND disk.
- >
- > metainit -f d12 1 1 c0t1d0s0 (for root)
- > metainit -f d22 1 1 c0t1d0s1 (for SWAP ????)
- > metainit -f d32 1 1 c0t1d0s3 (for /var ????)
- > .
- > .
- > metainit -d d10 -m d12 (root's oneway mirror)
- > metainit -d d20 -m d22 (SWAP oneway mirror)
- > metainit -d d30 -m d32 (/var's oneway mirror)
- >
- > A.S.O. for all you system partitions
- >
- > then set the root device this updates /etc/system
- >
- > metaroot d10
- >
- > Check that /etc/system has been updated.
- >

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- > Manually update /etc/vfstab with the above entered metadevice names.
- > so that it looks similar to server A.
- >
- > run metastat and check that everything seems O.K:
- >
- > Shutdown and restart the server with disk2 as the boot disk.
- >
- > Login and start the mirroring
- > setup the first disks devices
- >
- > metainit -f d11 1 1 c0t0d0s0 (for root)
- > metainit -f d21 1 1 c0t0d0s1 (for SWAP ????)
- > metainit -f d31 1 1 c0t0d0s3 (for /var ????)
- > .
- > .
- > metattach d10 d11 (root's twoway mirror)
- > metattach d20 d21 (SWAP twoway mirror)
- > metattach d30 d31 (/var's twoway mirror)
- >
- >
- > Then do the same thing for you datadisks if nessesary.
- > Decide which of the datadisks is going to be treated as the good copy
- > and work from there.
- >
- > If this is to heavy stuff for you, you will need to get SUN or some
- > other consultant
- > to do it.
- >
- > Regards //Lars

commenting out the line in the /etc/system allowed me to come closer to booting, but I still got a ton of errors.

without giving a 100 line copy of the output I will give a shortened version and if you need more details I can provide them.

here is output from boot:

```
Rebooting with command: boot disk1
Boot device: /pci@1c,600000/scsi@2/disk@1,0 File and args:
SunOS Release 5.10 Version Generic 64-bit
Copyright 1983-2005 Sun Microsystems, Inc. All rights reserved.
Use is subject to license terms.
Hardware watchdog enabled
/kernel/drv/sparcv9/ip: undefined symbol 'MD5Init'
/kernel/drv/sparcv9/ip: undefined symbol 'MD5Final'
/kernel/drv/sparcv9/ip: undefined symbol 'MD5Update'
WARNING: mod_load: cannot load module 'ip'
WARNING: ip: unable to resolve dependency, module 'misc/md5' not found
/kernel/fs/sparcv9/sockfs: undefined symbol 'sctp_disconnect'
/kernel/fs/sparcv9/sockfs: undefined symbol 'sctp_getsockname'
```

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```
/kernel/fs/sparcv9/sockfs: undefined symbol 'sctp_create'
/kernel/fs/sparcv9/sockfs: undefined symbol 'sctp_close'
/kernel/fs/sparcv9/sockfs: undefined symbol 'sctp_listen'
..
..
..WARNING: ip: unable to resolve dependency, module 'misc/md5' not found
/kernel/drv/sparcv9/tcp: undefined symbol 'tcpinfo'
WARNING: mod_load: cannot load module 'tcp'
WARNING: tcp: unable to resolve dependency, module 'drv/ip' not found
/kernel/drv/sparcv9/ipsecah: undefined symbol 'ip_drop_packet'
/kernel/drv/sparcv9/ipsecah: undefined symbol 'ip_drop_register'
/kernel/drv/sparcv9/ipsecah: undefined symbol 'ip_hdr_length_nexthdr_v6'
..
..
/kernel/drv/sparcv9/ipsecesp: undefined symbol 'ipsec_outbound_sa'
WARNING: mod_load: cannot load module 'ipsecesp'
WARNING: ipsecesp: unable to resolve dependency, module 'drv/ip' not
found
Failed to plumb IPv4 interface(s): bge0
Dec 30 05:38:17 svc.startd[7]: svc:/network/physical:default: Method
"/lib/svc/m
ethod/net-physical" failed with exit status 96.
[ network/physical:default misconfigured (see 'svcs -x' for details) ]
Hostname: scpIIIb
The / file system (/dev/rdisk/c1t1d0s0) is being checked.
Loading smf(5) service descriptions: 1/118
SC Alert: SC Request to XIR Host due to Watchdog
XIR failed - performing
SC Alert: Host System has Reset
SPOR
XIR/Watchdog Reset
Executing Power On Self Test
0>
0>@(#) Sun Fire[TM] V210/V240,Netra[TM] 240 POST 4.16.2 2004/10/04
22:43

/export/common-source/firmware_re/post/post-build-4.16.2/Fiesta/enxs/inte
grated (firmware_re)
0>Copyright © 2004 Sun Microsystems, Inc. All rights reserved
SUN PROPRIETARY/CONFIDENTIAL.
Use is subject to license terms.
0>OBP->POST Call with %o0=00000800.01012000.
0>Diag level set to MIN.
```

after this it boots to disk0 (solaris 9, primary boot device) successfully.

I tar'ed/untar'ed /kernel -> mounted <mirror_disk>/kernel again and tried another reboot, but still got same errors.

Hopefully this will give you guys some clues.

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Thanks for your help so far!

Mike Dundas

• *Follow-Ups:*

- ◆ *Re: rebuild 240v from scratch*
◇ *From: tunla*

• *References:*

- ◆ *rebuild 240v from scratch*
◇ *From: Mike Dundas*
 - ◆ *Re: rebuild 240v from scratch*
◇ *From: tunla*
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