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ISI.DETERLAB.NET: Experiment USC558L/SocketProgram Modified

testbed-ops@isi.deterlab.net <testbed-ops@isi.deterlab.net> Wed, Sep 5, 2012 at 4:37 PM
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Experiment SocketProgram in project USC558L has been modified.

Appended below is the output. If you have any questions or comments,
please include the output in your message to testbed-ops@isi.deterlab.net

--------- tbreport.log --------
Experiment: USC558L/SocketProgram
State: active

Virtual Node Info:

ID	Type	OS	Qualified Name
nodeA	pc		nodeA.SocketProgram.USC558L.isi.deterlab.net
nodeB	pc		nodeB.SocketProgram.USC558L.isi.deterlab.net
nodeC	pc		nodeC.SocketProgram.USC558L.isi.deterlab.net
nodeD	pc		nodeD.SocketProgram.USC558L.isi.deterlab.net

Physical Node Mapping:

ID	Type	OS	Physical
nodeA	bpc2133	Ubuntu1204-64-STD	bpc166
nodeB	bpc2133	Ubuntu1204-64-STD	bpc164
nodeC	MicroCloud	Ubuntu1204-64-STD	cpc33
nodeD	MicroCloud	Ubuntu1204-64-STD	cpc36
tbdelay0	bpc2133	FBSD62-STD	bpc183

Virtual Lan/Link Info:

ID	Member/Proto	IP/Mask	Delay	BW (Kbs)	Loss Rate
lan0	nodeB:1	10.1.2.4	0.00	100000	0.00000000
	ethernet	255.255.255.0	0.00	100000	0.00000000
lan0	nodeC:0	10.1.2.3	0.00	100000	0.00000000
	ethernet	255.255.255.0	0.00	100000	0.00000000
lan0	nodeD:0	10.1.2.2	0.00	100000	0.00000000
	ethernet	255.255.255.0	0.00	100000	0.00000000
link0	nodeA:0	10.1.1.3	25.00	30000	0.00501256
	ethernet	255.255.255.0	25.00	30000	0.00501256
link0	nodeB:0	10.1.1.2	25.00	30000	0.00501256
	ethernet	255.255.255.0	25.00	30000	0.00501256

Physical Lan/Link Mapping:

ID	Member	IP	MAC	NodeID

```
lan0        nodeB:1      10.1.2.4      00:15:17:5d:16:f5   bpc164
                              1/1 <-> 3/20       Bhp3
lan0        nodeC:0      10.1.2.3      a0:36:9f:08:58:26   cpc33
                              4/1 <-> 8/23       HP2e2
lan0        nodeD:0      10.1.2.2      a0:36:9f:09:27:c6   cpc36
                              4/1 <-> 8/8        HP2e2
link0       nodeA:0      10.1.1.3      00:04:23:9f:13:bb   bpc166
                              5/1 <-> 4/12       Bhp3
link0       nodeB:0      10.1.1.2      00:15:17:5d:16:f4   bpc164
                              0/1 <-> 3/19       Bhp3

Virtual Queue Info:
ID            Member        Q Limit    Type    weight/min_th/max_th/linterm
------------- ------------- ---------- ------- ----------------------------
lan0          nodeB:1       100 slots  Tail    0/0/0/0
lan0          nodeC:0       100 slots  Tail    0/0/0/0
lan0          nodeD:0       100 slots  Tail    0/0/0/0
link0         nodeA:0       100 slots  Tail    0/0/0/0
link0         nodeB:0       100 slots  Tail    0/0/0/0

Physical Delay Info:
ID            Member        Delay Node   Delay    BW (Kbs) PLR     Pipe
------------- ------------- ------------ -------- -------- ------ ---------
link0         nodeA         tbdelay0     50.00    30000    0.00999999 110
link0         nodeB         tbdelay0     50.00    30000    0.00999999 120

Physical Queue Info:
ID            Member        Q Limit        Type    weight/min_th/max_th/linterm
------------- ------------- ---------- ------- ----------------------------
link0         nodeA         100 slots      Tail    0/0/0/0
link0         nodeB         100 slots      Tail    0/0/0/0
link0         nodeA         100 slots      Tail    0/0/0/0
link0         nodeB         100 slots      Tail    0/0/0/0

Delay Node Switch Info:
ID            Member        Delay Node   Card/Port Switch    Card/Port
------------- ------------- ------------ --------- --------- --------
link0         nodeA         tbdelay0     0/1 eth0  Bhp3      8/13
link0         nodeB         tbdelay0     1/1 eth1  Bhp3      8/14


--------- /usr/testbed/expwork/USC558L/SocketProgram/swapexp.kuDt1y --------
Doing a preswapmod on the experiment archive ...
Backing up old experiment state ... 16:34:09:29956
Running 'tbprerun  -e 29301 SocketProgram-modify.ns'
Beginning pre run for USC558L/SocketProgram. 16:34:09:578979
Running parser ... 16:34:10:194221
Parser done! 16:34:14:146903
Setting up static routes (if requested) ...
Generating topomap ...
Verifying parse ...
Doing a pre-assign: '/usr/testbed/bin/vtopgen -p USC558L SocketProgram' ...
Minimum nodes   = 5
Maximum nodes   = 5
Writing environment strings ...
Setting up additional program agent support ...
Setting up additional network agent support ...
```

Writing program agent info ...
Pre run finished. 16:34:19:665729
Running 'tbswap modify -reboot -eventsys_restart USC558L SocketProgram'
Beginning swap-modify for USC558L/SocketProgram (29301). 09/05/2012 16:34:20
TIMESTAMP: 16:34:20:407741 tbswap modify started
Checking with Admission Control ...
Backing up physical state...
TIMESTAMP: 16:34:20:451994 statscheck started
TIMESTAMP: 16:34:23:592362 statscheck finished
TIMESTAMP: 16:34:23:594011 portal_setup (teardown) started
TIMESTAMP: 16:34:24:197407 portal_setup (teardown) finished
Stopping the event system
Mapping to physical reality ...
TIMESTAMP: 16:34:36:381618 mapper wrapper started
Starting the new and improved mapper wrapper.
Clearing physical state before updating.
Minimum nodes = 5
Maximum nodes = 5
Reserved pnodes = 3
Assign run 1
ptopargs: '-p USC558L -e SocketProgram '
assign command: 'assign -P USC558L-SocketProgram-97845.ptop USC558L-SocketProgram-97845.vtop'
Reading assign results.
[Node: bpc164] already reserved in holding reservation.
[Node: bpc166] already reserved in holding reservation.
[Node: bpc183] already reserved in holding reservation.
Succeeded
VLAN creation succeeded.
Creating VLAN cns29301 as VLAN #49 on HP2c1 ...
Creating VLAN cns29301 as VLAN #49 on HP4c1 ...
Succeeded
VLAN creation succeeded.
Successfully reserved all physical nodes we needed.
TIMESTAMP: 16:35:01:513305 mapper wrapper finished
Mapped to physical reality!
Fetching tarballs and RPMs (if any) ...
TIMESTAMP: 16:35:01:526579 tarfiles_setup started
TIMESTAMP: 16:35:02:210611 tarfiles_setup finished
TIMESTAMP: 16:35:02:212793 extra_nodes started
TIMESTAMP: 16:35:02:270740 extra_nodes finished
Setting up mountpoints.
TIMESTAMP: 16:35:02:272297 mountpoints started
TIMESTAMP: 16:35:09:291783 mountpoints finished
TIMESTAMP: 16:35:09:293604 portal_setup started
TIMESTAMP: 16:35:09:906073 portal_setup finished
TIMESTAMP: 16:35:09:907834 named started
Setting up named maps.
TIMESTAMP: 16:35:10:969211 named finished
Marking nodes for reboot.
TIMESTAMP: 16:35:10:974725 gentopofile started
Generating ltmap (again) ...
TIMESTAMP: 16:35:11:700453 gentopofile finished
Resetting OS and rebooting.
TIMESTAMP: 16:35:11:702658 launching os_setup
Setting up VLANs.
TIMESTAMP: 16:35:11:709619 snmpit started
TIMESTAMP: 16:35:12:211881 os_setup started

TIMESTAMP: 16:35:12:221801 rebooting/reloading nodes started
reboot (bpc164): Attempting to reboot ...
reboot (bpc166): Attempting to reboot ...
reboot (bpc183): Attempting to reboot ...
reboot (cpc33): Attempting to reboot ...
reboot (cpc36): Attempting to reboot ...
Connection to bpc183.isi.deterlab.net closed by remote host.
  Creating VLAN 439894 as VLAN #110 on HP4t1 ...
  Creating VLAN 439894 as VLAN #110 on HP2e2 ...
  Creating VLAN 439894 as VLAN #110 on Bhp3 ...
  Creating VLAN 439894 as VLAN #110 on Bhp1 ...
  VLAN 439830 already exists
  VLAN 439829 already exists
TIMESTAMP: 16:35:19:9119 snmpit finished
Clearing port counters.
TIMESTAMP: 16:35:19:12034 portstats started
TIMESTAMP: 16:35:20:394388 portstats finished
reboot (bpc164): Successful!
reboot (bpc166): Successful!
reboot (bpc183): Successful!
reboot (cpc33): Successful!
reboot (cpc36): Successful!
reboot: Done. There were 0 failures.
reboot (bpc164): child returned 0 status.
reboot (bpc166): child returned 0 status.
reboot (cpc33): child returned 0 status.
reboot (cpc36): child returned 0 status.
reboot (bpc183): child returned 0 status.
TIMESTAMP: 16:35:35:266806 rebooting/reloading finished
Waiting for local testbed nodes to finish rebooting ...
TIMESTAMP: 16:35:35:268854 Local node waiting started
Still waiting for bpc164 - it's been 1 minute(s).
bpc164 is alive and well
bpc166 is alive and well
cpc33 is alive and well
Still waiting for bpc183 - it's been 1 minute(s).
bpc183 is alive and well
cpc36 is alive and well
TIMESTAMP: 16:37:20:314786 Local node waiting finished
OS Setup Done.
TIMESTAMP: 16:37:20:389278 os_setup finished
Starting the event system.
TIMESTAMP: 16:37:20:607644 eventsys_control started
TIMESTAMP: 16:37:24:273762 eventsys_control finished
TIMESTAMP: 16:37:24:275867 setup_commercial_routers started modify
TIMESTAMP: 16:37:24:751704 setup_commercial_routers: The experiment USC558L/SocketProgram has no commercial routers allocated.

TIMESTAMP: 16:37:24:965211 setup_commercial_routers ended modify
TIMESTAMP: 16:37:24:966611 Starting event time
Successfully finished swap-modify for USC558L/SocketProgram. 16:37:27:335638
TIMESTAMP: 16:37:27:336721 tbswap modify finished (succeeded)
Image rendering proceeding in background mode ...
Running 'tbreport -b USC558L SocketProgram'
Doing a commit on the previous experiment archive ...
Doing a savepoint on the experiment archive ...
Swap Success!

--------- SocketProgram.ns --------
```
# This is a simple ns script. Comments start with #.
set ns [new Simulator]
source tb_compat.tcl

set nodeA [$ns node]
set nodeB [$ns node]
set nodeC [$ns node]
set nodeD [$ns node]

set link0 [$ns duplex-link $nodeB $nodeA 30Mb 50ms DropTail]
tb-set-link-loss $link0 0.01

set lan0 [$ns make-lan "$nodeD $nodeC $nodeB " 100Mb 0ms]
```
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