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ISI.DETERLAB.NET: New Experiment Started: USC558L/LabTwo

testbed-ops@isi.deterlab.net <testbed-ops@isi.deterlab.net> To: Supriva Singh <sc558bf@isi.deterlab.net>

Fri, Aug 31, 2012 at 7:38 PM

Your experiment `LabTwo' in project `USC558L' has been started. Here is the experiment summary detailing the nodes that were allocated to you. You may use the `Qualified Name' to log on to your nodes. See /etc/hosts on your nodes (when running FreeBSD, Linux, or NetBSD) for the IP mapping on each node.

User: Supriya Singh EID: LabTwo

EID: LabTwo PID: USC558L GID: USC558L

Description: Advanced Deter Lab

Swappable: Yes

Idle-Swap: Yes, at 4 hours
Auto-Swap: Yes, at 12 hours
Created: 2012-08-31 19:33:36
Directory: /proj/USC558L/exp/LabTwo

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

----- report -----

Experiment: USC558L/LabTwo

State: active

ID

Virtual Node Info:

טו	туре	08	Qualified Name
nodeA nodeB	pc pc		nodeA.LabTwo.USC558L.isi.deterlab.net nodeB.LabTwo.USC558L.isi.deterlab.net

Physical

Ouglified Name

Physical Node Mapping:

Type

	·		
nodeA	pc3000	Ubuntu1204-64	-STD pc113
nodeB	pc3000	Ubuntu1204-64	-STD pc135
tbdelay0	pc3000	FBSD62-STD	pc134

OS

Virtual Lan/Link Info:

ID	Member/Pr	oto IP/Mask	Dela	ay BW (I	Kbs) Loss Rate
link0	nodeA:0	10.1.1.2	0.00	100000	0.00000000
	ethernet	255.255.255.0	0.00	100000	0.00000000
link0	nodeB:0	10.1.1.3	0.00	100000	0.00000000
	ethernet	255.255.255.0	0.00	100000	0.00000000

Physical I	_an/Link Mapp Member	oing: IP	MAC	NodelD	
link0	nodeA:0		00:0e:0c:68 -> 6/1 HP	:a6:76 pc113 10e2	
link0	nodeB:0	10.1.1.3	00:04:23:ae -> 5/5 HP	:cc:3c pc135	
Virtual Qu	ieue Info:				
ID	Member	Q Limit	Type weight/ı	min_th/max_th/linterm	
link0	nodeA:0	50 slots	GRED 0.004/	7/20/11	
link0	nodeB:0	100 slots	RED 0.002/	5/15/10	
Physical Delay Info: ID Member Delay Node Delay BW (Kbs) PLR Pipe					
link0 link0	nodeA nodeB			0 0.00000000 110 0 0.00000000 120	
IIIIKO	Подев	touciayo	0.00 10000	0 0.00000000 120	
•	Queue Info:				
ID	Member	Q Limit	Type weig	ht/min_th/max_th/linterm	
link()	nodeA	50 slots	GRED 0.00)4/7/20/11	
link0		100 slots	RED 0.00	2/5/15/10	
link0	nodeA	50 slots	GRED 0.00	04/7/20/11	
link0	nodeB	100 slots	RED 0.00	2/5/15/10	
Delay Node Switch Info:					
ID			de Card/Port S	Switch Card/Port	
link0			0/1 eth0 HP1		
link0	nodeB	tbdelay0	1/1 eth1 HP1	0e2 5/2	

-----/usr/testbed/expwork/USC558L/LabTwo/startexp.dmdUKQ ------

Running 'tbprerun -e 29177 LabTwo.ns'

Beginning pre run for USC558L/LabTwo. 19:33:40:939233

Running parser ... 19:33:41:557624

Parser done! 19:33:45:433659

Precomputing visualization ...

Image rendering proceeding in background mode ...

Setting up static routes (if requested) ...

Generating topomap ...

Verifying parse ...

'red' != 'gred' in

ns: I nodeA nodeB 100000000 0.0000 0.000000 link0 red

db: I nodeA nodeB 100000000 0.0000 0.000000 link0 gred

*** ERROR: verify-ns: Topology verification failed!

Doing a pre-assign: '/usr/testbed/bin/vtopgen -p USC558L LabTwo' ...

Minimum nodes = 3

Maximum nodes = 3

Writing environment strings ...

Setting up additional program agent support ...

Setting up additional network agent support ...

Writing program agent info ...

Pre run finished. 19:33:51:387299 Running 'tbswap in USC558L LabTwo'

Beginning swap-in for USC558L/LabTwo (29177). 08/31/2012 19:33:52

TIMESTAMP: 19:33:52:104453 tbswap in started

Checking with Admission Control ...

Mapping to physical reality ...

TIMESTAMP: 19:33:52:137435 mapper wrapper started

Starting the new and improved mapper wrapper.

Clearing physical state before updating.

Minimum nodes = 3 Maximum nodes = 3

Assign run 1

ptopargs: '-p USC558L -e LabTwo '

assign command: 'assign -P USC558L-LabTwo-39094.ptop USC558L-LabTwo-39094.vtop'

Reading assign results.

Creating VLAN cns29177 as VLAN #8 on HP4t1 ...

Creating VLAN cns29177 as VLAN #8 on Bhp1 ...

Creating VLAN cns29177 as VLAN #8 on HP10c1 ...

Succeeded

VLAN creation succeeded.

Could not signal(USR2) process 99647 for log pc113.run at /usr/testbed/sbin/console setup.proxy line 136.

*** Failed: /usr/testbed/bin/sshtb -n serial4 /usr/testbed/sbin/console_setup.proxy pc135 USC558L pc113 USC558L

pc134 USC558L: 768

WARNING: /usr/testbed/libexec/console_setup [Node: pc135] [Node: pc113] [Node: pc134] failed!

Successfully reserved all physical nodes we needed.

TIMESTAMP: 19:34:10:277250 mapper wrapper finished

Mapped to physical reality!

Fetching tarballs and RPMs (if any) ...

TIMESTAMP: 19:34:10:280218 tarfiles_setup started TIMESTAMP: 19:34:10:953369 tarfiles_setup finished TIMESTAMP: 19:34:10:955258 extra_nodes started TIMESTAMP: 19:34:11:5504 extra_nodes finished

Setting up mountpoints.

TIMESTAMP: 19:34:11:6933 mountpoints started TIMESTAMP: 19:34:17:867867 mountpoints finished TIMESTAMP: 19:34:17:869401 portal_setup started TIMESTAMP: 19:34:18:493599 portal_setup finished TIMESTAMP: 19:34:18:495180 named started

Setting up named maps.

TIMESTAMP: 19:34:19:536328 named finished TIMESTAMP: 19:34:19:538215 gentopofile started

Generating Itmap (again) ...

TIMESTAMP: 19:34:20:234442 gentopofile finished

Resetting OS and rebooting.

TIMESTAMP: 19:34:20:236692 launching os setup

Setting up VLANs.

TIMESTAMP: 19:34:20:242986 snmpit started TIMESTAMP: 19:34:20:742231 os_setup started

TIMESTAMP: 19:34:20:767783 rebooting/reloading nodes started

osload (pc134): Changing default OS to [OS 375: emulab-ops,FBSD62-STD]

Setting up reload for pc134 (mode: Frisbee)

Creating VLAN 437036 as VLAN #34 on HP10e2 ...

reboot (pc113): Attempting to reboot ...

reboot (pc135): Attempting to reboot ...

reboot (pc113): Successful!

reboot (pc135): Successful!

reboot: Done. There were 0 failures.

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reboot (pc135): child returned 0 status.
reboot (pc113): child returned 0 status.
osload: Issuing reboot for pc134 and then waiting ...
reboot (pc134): Attempting to reboot ...
reboot (pc134): Successful!
reboot: Done. There were 0 failures.
reboot (pc134): child returned 0 status.
 Creating VLAN 437037 as VLAN #27 on HP10e2 ...
TIMESTAMP: 19:34:30:977184 snmpit finished
Setting up email lists.
TIMESTAMP: 19:34:30:980025 genelists started
TIMESTAMP: 19:34:31:806601 genelists finished
Clearing port counters.
TIMESTAMP: 19:34:31:808985 portstats started
TIMESTAMP: 19:34:32:764178 portstats finished
osload (pc134): still waiting; it has been 1 minute(s)
osload: Done! There were 0 failures.
reload (pc134): child returned 0 status.
TIMESTAMP: 19:36:12:77042 rebooting/reloading finished
Waiting for local testbed nodes to finish rebooting ...
TIMESTAMP: 19:36:12:78907 Local node waiting started
pc135 is alive and well
Still waiting for pc134 - it's been 1 minute(s).
pc134 is alive and well
pc113 is alive and well
TIMESTAMP: 19:38:07:277843 Local node waiting finished
OS Setup Done.
TIMESTAMP: 19:38:07:285251 os setup finished
Starting the event system.
TIMESTAMP: 19:38:07:503401 eventsys control started
TIMESTAMP: 19:38:11:122152 eventsys control finished
TIMESTAMP: 19:38:11:124246 setup commercial routers started in
TIMESTAMP: 19:38:11:599591 setup commercial routers: The experiment USC558L/LabTwo has no commercial
routers allocated.
TIMESTAMP: 19:38:11:816759 setup commercial routers ended in
TIMESTAMP: 19:38:11:818179 Starting event time
Successfully finished swap-in for USC558L/LabTwo. 19:38:14:389265
TIMESTAMP: 19:38:14:390195 tbswap in finished (succeeded)
Running 'tbreport -b USC558L LabTwo'
Doing a savepoint on the experiment archive ...
Experiment USC558L/LabTwo has been successfully created!
----- LabTwo.ns -----
source tb compat.tcl
set ns [new Simulator]
# Create four nodes
set nodeA [$ns node]
set nodeB [$ns node]
# Create a RED duplex link
set link0 [$ns duplex-link $nodeA $nodeB 100Mb 0ms RED]
# Get the gueue object for the nodeA/nodeb link and modify its RED params.
set queue0 [[$ns link $nodeA $nodeB] queue]
$queue0 set gentle 1
```

\$queue0 set queue-in-bytes_ 0 \$queue0 set limit_ 50 \$queue0 set maxthresh_ 20 \$queue0 set thresh_ 7 \$queue0 set linterm_ 11 \$queue0 set q_weight 0.004

Create a UDP agent and attach it to nodeA set udp0 [new Agent/UDP] \$ns attach-agent \$nodeA \$udp0

Create a CBR traffic source and attach it to udp0 set cbr0 [new Application/Traffic/CBR] \$cbr0 set packetSize_ 500 \$cbr0 set interval_ 0.005 \$cbr0 attach-agent \$udp0

Create a TCP agent and attach it to nodeA set tcp0 [new Agent/TCP] \$ns attach-agent \$nodeA \$tcp0

Create a CBR traffic source and attach it to tcp0 set cbr1 [new Application/Traffic/CBR] \$cbr1 set packetSize_ 500 \$cbr1 set interval_ 0.005 \$cbr1 attach-agent \$tcp0

Create a Null agent (a UDP traffic sink) and attach it to node nodeB set null0 [new Agent/Null] \$ns attach-agent \$nodeB \$null0

Create a TCPSink agent (a TCP traffic sink) and attach it to node nodeB set null1 [new Agent/TCPSink] \$ns attach-agent \$nodeB \$null1

Connect the traffic sources with the traffic sinks \$ns connect \$udp0 \$null0 \$ns connect \$tcp0 \$null1

And some events.
\$ns at 60.0 "\$cbr0 start"
\$ns at 70.0 "\$link0 bandwidth 10Mb duplex"
\$ns at 80.0 "\$link0 delay 10ms"
\$ns at 90.0 "\$link0 plr 0.05"
\$ns at 100.0 "\$link0 down"
\$ns at 115.0 "\$link0 up"
\$ns at 115.0 "\$cbr0 stop"

\$ns at 120.0 "\$cbr1 start"
\$ns at 130.0 "\$cbr1 set packetSize_ 512"
\$ns at 130.0 "\$cbr1 set interval_ 0.01"
\$ns at 140.0 "\$link0 down"
\$ns at 150.0 "\$cbr1 stop"

#Run the simulation \$ns run