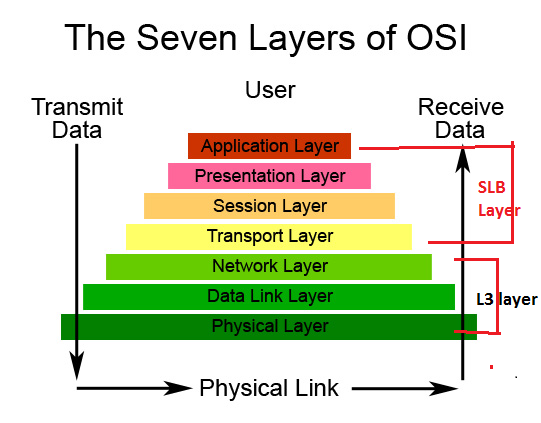
**Alteon KT**

**OS LAYER**

****

**Alteon configuration dumps**

It’s mentioned in EWS Repository

[**\\CD104993\list\Alteon**](file:///\\CD104993\list\Alteon)

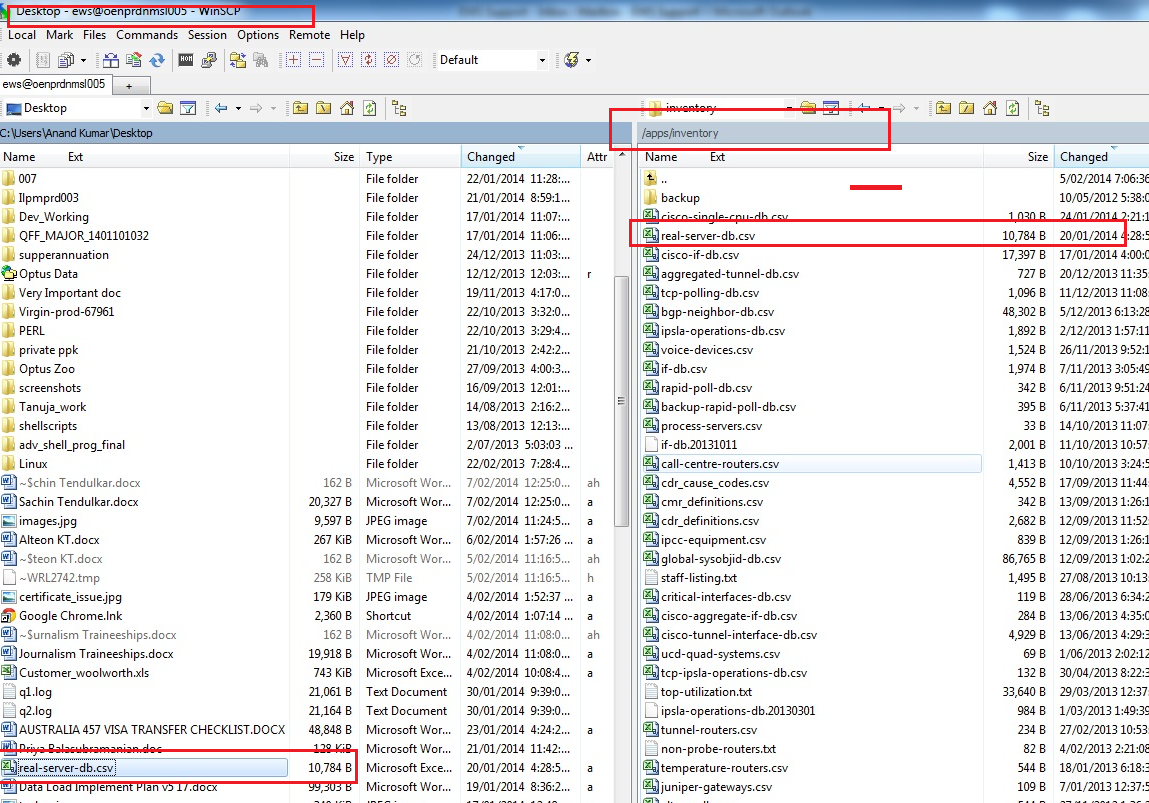
|  |
| --- |
| Alteon Session Graphs |
|  |
| The below gives the real server session counts of 3 hours, 24 hours , weekly , monthly and yearly . |
|  |
| [Real server Sessions](http://oenprdnmsl005.optus.com.au/cgi-bin/alteons/real-server-sessions.cgi) |
|  |
| Server name : oenprdnmsl005 |
| username : ews |
| password : Today123 |
|  |
|  |
| Database file |
|  |
| /apps/inventory/real-server- db.csv |

**How to see/modify real-server-db.csv to make effect on real server graphs which is in EWS repository under Alteons product**

**Go to**

**Server:oenprdnmsl005 credential:ews/Today123**

**Path: \apps\inventory\real-server-db.csv**

****

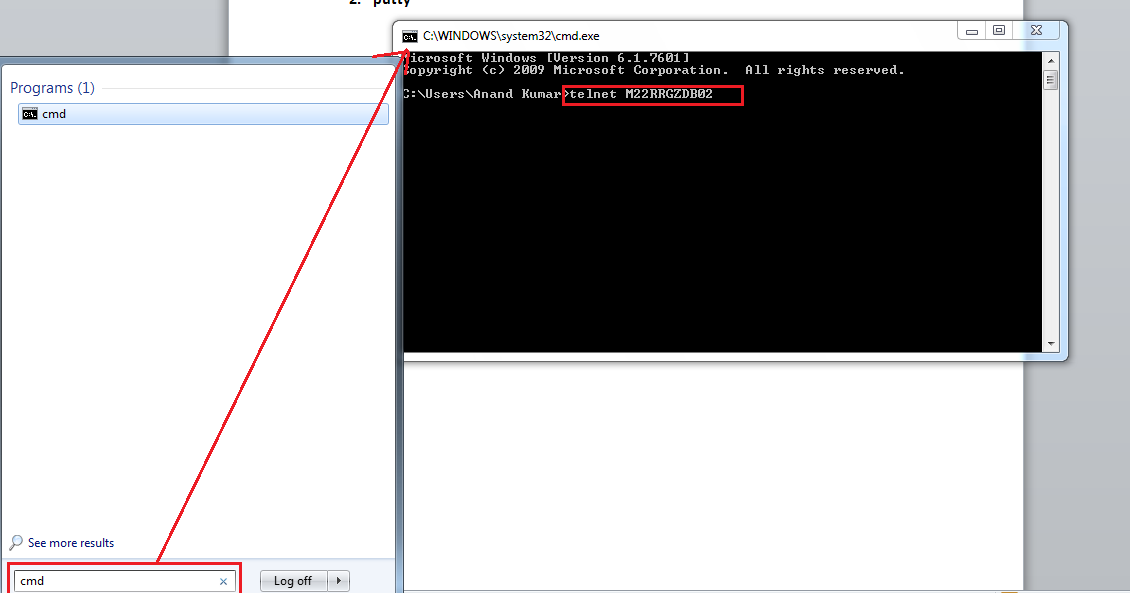
**TELNET Command**

**There are 2 options to login to alteons**

1. **telnet**
2. **putty**

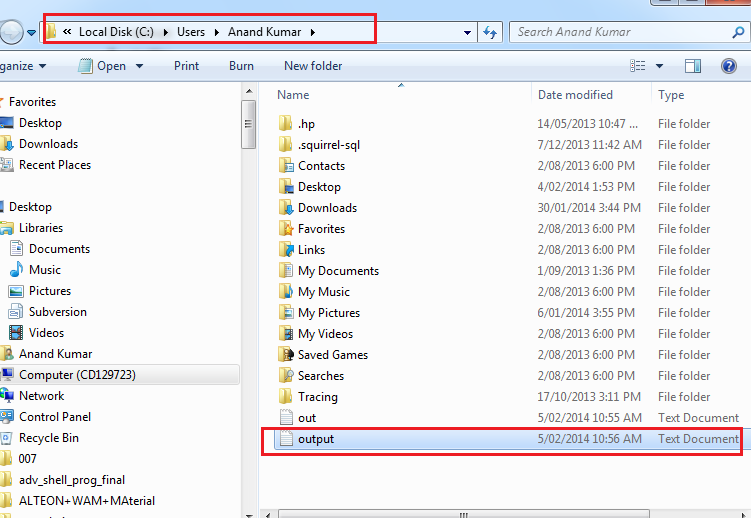
**TELNET**

1. **telnet M22RRGZDB02**

****

**Login: ews-user/** **d0ther1ghtThing**

1. **telnet –f output.txt M22RRGZDB02 (whatever we will do in alteon will come as out.txt file in local machine )**

****

**Out.txt**

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* This service is for authorised clients only \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* WARNING: It is a criminal offence to: \*

\* i. Obtain access to data without authority \*

\* (Penalty 2 years imprisonment) \*

\* ii Damage, delete, alter or insert data without authority \*

\* (Penalty 10 years imprisonment) \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Enter login username: ews-user

Enter login password:

System Information at 11:04:58 Wed Feb 5, 2014 (DST)

Time zone: Australia/NSW Most (GMT offset +10:00)

Memory profile is Default

Symantec feature is globally Disabled

Alteon Application Switch 2424-SSL

Switch is up 183 days, 11 hours, 7 minutes and 28 seconds.

Last boot: 21:09:16 Mon Mar 26, 2012 (reset from Telnet)

Last apply: 21:10:01 Fri Jan 17, 2014

Last save: 21:28:31 Fri Jan 17, 2014

MAC Address: 00:14:0d:75:92:00 IP (If 11) Address: 10.121.128.201

Internal SSL Processor MAC Address: 00:14:0d:75:92:1f

Hardware Order No: EB1412006 Serial No: SSCPL201SB Rev: 10

Mainboard Hardware: Part No: P315720-A Rev: 04

Management Processor Board Hardware: Part No: P314080-A Rev: 02

Fast Ethernet Board Hardware: Part No: P314091-A Rev: 03

Note - When the measured temperature inside the switch EXCEEDs

the high threshold at 62 degree Celsius a syslog message

will be generated.

Software Version 25.3.0 (FLASH image2), active configuration.

SPOC DMZ Internal LB 2

------------------------------------------------------------

[Main Menu]

info - Information Menu

stats - Statistics Menu

oper - Operations Command Menu

exit - Exit [global command, always available]

>> M22RRGZDB02 - Main) /i/slb/virt 1

1: IP4 10.121.148.3, 00:14:0d:75:92:0e, dname WGWPITPXY

virtual ports:

18081: rport 18081, group 8, MWS\_PIT-18081-18082, backup none, secbkp none,

rtspslb none

real servers:

1: WGWPITPXYL001, backup none, 0 ms, group ena, DISABLED

2: WGWPITPXYL002, backup none, 0 ms, group ena, DISABLED

5: WGWPITPXYL003, backup none, 27 ms, group ena, up

6: WGWPITPXYL004, backup none, 42 ms, group ena, up

7: WGWPITPXYL005, backup none, 24 ms, group ena, up

18082: rport 18082, group 8, MWS\_PIT-18081-18082, backup none, secbkp none,

rtspslb none

real servers:

1: WGWPITPXYL001, backup none, 0 ms, group ena, DISABLED

2: WGWPITPXYL002, backup none, 0 ms, group ena, DISABLED

5: WGWPITPXYL003, backup none, 42 ms, group ena, up

6: WGWPITPXYL004, backup none, 40 ms, group ena, up

7: WGWPITPXYL005, backup none, 45 ms, group ena, up

1512: rport 1512, group 1, FEP\_PIT-1512-1522, backup r2, secbkp none, rtspsl

b none

real servers:

1: WGWPITPXYL001, backup none, 15 ms, group ena, DISABLED

1522: rport 1522, group 1, FEP\_PIT-1512-1522, backup r2, secbkp none, rtspsl

b none

real servers:

1: WGWPITPXYL001, backup none, 19 ms, group ena, DISABLED

18091: rport 18091, group 9, MWS\_GNP-18091-18092, backup none, secbkp none,

rtspslb none

real servers:

1: WGWPITPXYL001, backup none, 0 ms, group ena, DISABLED

2: WGWPITPXYL002, backup none, 0 ms, group ena, DISABLED

5: WGWPITPXYL003, backup none, 48 ms, group ena, up

6: WGWPITPXYL004, backup none, 44 ms, group ena, FAILED

7: WGWPITPXYL005, backup none, 45 ms, group ena, BLOCKED

18092: rport 18092, group 9, MWS\_GNP-18091-18092, backup none, secbkp none,

rtspslb none

real servers:

1: WGWPITPXYL001, backup none, 0 ms, group ena, DISABLED

2: WGWPITPXYL002, backup none, 0 ms, group ena, DISABLED

5: WGWPITPXYL003, backup none, 56 ms, group ena, up

6: WGWPITPXYL004, backup none, 42 ms, group ena, FAILED

7: WGWPITPXYL005, backup none, 73 ms, group ena, FAILED

1515: rport 1515, group 7, FEP\_GNP-1515-1525, backup r2, secbkp none, rtspsl

b none

real servers:

1: WGWPITPXYL001, backup none, 22 ms, group ena, DISABLED

1525: rport 1525, group 7, FEP\_GNP-1515-1525, backup r2, secbkp none, rtspsl

b none

real servers:

1: WGWPITPXYL001, backup none, 11 ms, group ena, DISABLED

**PUTTY**

**We can login to alteons via putty too.**

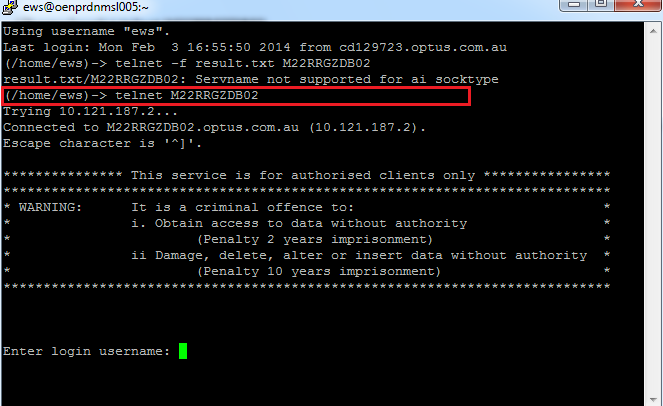
**oenprdnmsl005.optus.com.au** and **o22rrnms08.optus.com.au**

**Server: oenprdnmsl005.optus.com.au**

**Credential: ews/Today123**

**Server: o22rrnms08.optus.com.au**

**Credential: ewssupport/** **d0ther1ghtThing**

****

(/home/ews)-> telnet M22RRGZDB02

Trying 10.121.187.2...

Connected to M22RRGZDB02.optus.com.au (10.121.187.2).

Escape character is '^]'.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* This service is for authorised clients only \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* WARNING: It is a criminal offence to: \*

\* i. Obtain access to data without authority \*

\* (Penalty 2 years imprisonment) \*

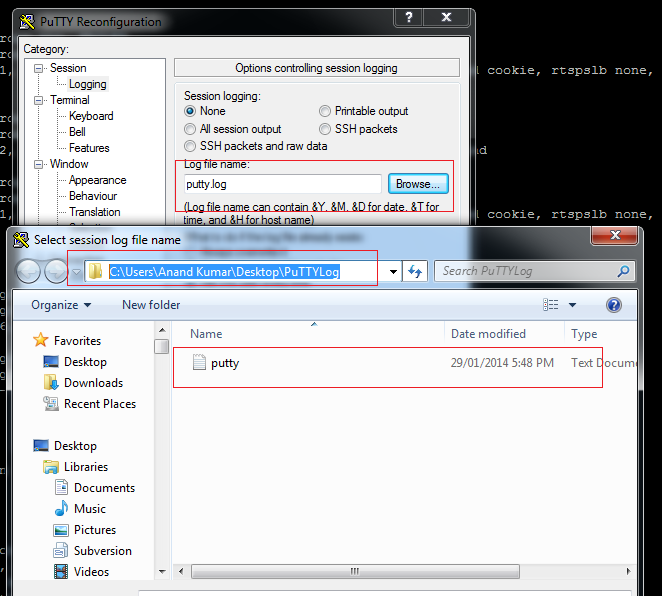
\* ii Damage, delete, alter or insert data without authority \*

\* (Penalty 10 years imprisonment) \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Enter login username:

**You can see all the action performed in putty.log. You can set your putty.log destination too**

****

**Frequently used commands**

* The following are the list of frequently used commands (the handy ones) categorized.
* INFO:
  + **/i/slb/virt –** For viewing all real server statuses under a virtual server. Useful we have to checked enabled/disabled status and virtual server configuration.
  + **/i/slb/real –** For viewing status of a certain real server under all real server groups.
  + **/i/slb/group –** Handy for checking status for a certain service if there a lot of services under a virtual server and for checking some group specific configuration like load balancing metric.
* **/i/sys/log** – Displays last 64 syslog lines. Useful to check some recent activity, without opening the log server (o22rrnms08)
* **/i/sys/cap** – Useful to quickly check the number of unused real server/group/virtual server/filter numbers available.
* **/i/l2/vlan** – To check the VLANs configured on the LB
* **/i/l3/ip** – To check the interfaces on the LB
* **/i/slb/sess** – To check the current sessions based on destination ip (/dip), source ip (sip) or real IP (real).
* **/i/slb/dump** – To print

**OPER:**

* **/o/slb/ena –** To enable a real server**.**
* **/o/slb/dis –** To disable a real server

Note: The above options present us with the following additional choices:

* + Allow cookie persistent sessions – If chosen yes, persistent sessions continue regardless of the server state and the connection time out. For example, if a user comes back with a cookie that hasn’t expired yet, he/she goes to the same server. Ideal to use only if the server isn’t going to be down for long.
  + Mark existing sessions for removal – If chosen yes, all existing sessions (persistent/non-persistent) are removed, so connections are are instantly timed out and non-persistent sessions go to a new server. If chosen NO, we wait until the sessions timeout.
* **/o/slb/group <x>/ena –** To enable a real server only under the group x.
* **/o/slb/group <x>/dis** – To disable a real server only under the group x.
* **/o/psswd –** Changes password for ews-user
* **/o/slb/cur –** Provides status (Enabled/Disabled) of all real servers on the LB. Useful to check after changes like Alteon OS upgrade**.**
* **STATS:**
* **/stats/slb/real –** Real server statistics. Useful to check last time the server is up/failed, average response time and current/highest session count.
* **/stats/slb/group –** Shows current/highest session count for the real servers in the group along with enabled/disabled status
* **/stats/slb/virt –** Similar to /stats/slb/group, but shows for all groups under the virtual server. Doesn’t show real server status.

**>> M22RRGZDB02 - Server Load Balancing Information) /i/slb/virt 1**

1: IP4 10.121.148.3, 00:14:0d:75:92:0e, dname WGWPITPXY

virtual ports:

18081: rport 18081, group 8, MWS\_PIT-18081-18082, backup none, secbkp none,

rtspslb none

real servers:

1: WGWPITPXYL001, backup none, 0 ms, group ena, DISABLED

2: WGWPITPXYL002, backup none, 0 ms, group ena, DISABLED

5: WGWPITPXYL003, backup none, 28 ms, group ena, up

6: WGWPITPXYL004, backup none, 42 ms, group ena, up

7: WGWPITPXYL005, backup none, 18 ms, group ena, up

18082: rport 18082, group 8, MWS\_PIT-18081-18082, backup none, secbkp none,

rtspslb none

real servers:

1: WGWPITPXYL001, backup none, 0 ms, group ena, DISABLED

2: WGWPITPXYL002, backup none, 0 ms, group ena, DISABLED

5: WGWPITPXYL003, backup none, 42 ms, group ena, up

6: WGWPITPXYL004, backup none, 40 ms, group ena, up

7: WGWPITPXYL005, backup none, 45 ms, group ena, up

1512: rport 1512, group 1, FEP\_PIT-1512-1522, backup r2, secbkp none, rtspsl

b none

real servers:

1: WGWPITPXYL001, backup none, 15 ms, group ena, DISABLED

1522: rport 1522, group 1, FEP\_PIT-1512-1522, backup r2, secbkp none, rtspsl

b none

real servers:

1: WGWPITPXYL001, backup none, 19 ms, group ena, DISABLED

------------------------------------------------------------

**>> M22RRGZDB02 - Main) /i/slb/virt 150**

150: IP4 10.121.132.9, 00:14:0d:75:92:0e, dname idmperapp.optus.com.au

virtual ports:

18501: rport 18501, group 150, backup none, secbkp none, script12, pbind cookie, rtspslb none, dbind

**cookie name: LBPERIDM**

**cookie persistence mode: insert**

inserted cookie expires with the session

real servers:

151: IDMPERAPPW001, backup none, 263 ms, group ena, up

152: IDMPERAPPW002, backup none, 238 ms, group ena, up

18601: rport 18601, group 159, backup none, secbkp none, script13, pbind cookie, rtspslb none, dbind

cookie name: LBPERIDM

cookie persistence mode: insert

inserted cookie expires with the session

real servers:

151: IDMPERAPPW001, backup none, 278 ms, group ena, up

152: IDMPERAPPW002, backup none, 232 ms, group ena, up

18801: rport 18801, group 151, IDMPERAPP-18801, backup none, secbkp none, content /alteon/test.txt, pbind cookie, rtspslb none, dbind

cookie name: LBPERIDM

cookie persistence mode: insert

inserted cookie expires with the session

real servers:

151: IDMPERAPPW001, backup none, 0 ms, group ena, FAILED

152: IDMPERAPPW002, backup none, 0 ms, group ena, FAILED

18901: rport 18901, group 152, IDMPERAPP-18901, backup none, secbkp none, content /alteon/test.txt, pbind cookie, rtspslb none, dbind

cookie name: LBPERIDM

cookie persistence mode: insert

inserted cookie expires with the session

real servers:

151: IDMPERAPPW001, backup none, 0 ms, group ena, FAILED

152: IDMPERAPPW002, backup none, 0 ms, group ena, FAILED

18902: rport 18902, group 153, IDMPERAPP-18902, backup none, secbkp none, pbind sslid, rtspslb none, dbind

real servers:

151: IDMPERAPPW001, backup none, 0 ms, group ena, FAILED

152: IDMPERAPPW002, backup none, 0 ms, group ena, FAILED

18931: rport 18931, group 154, IDMPERAPP-18931, backup none, secbkp none, content /alteon/test.txt, pbind cookie, rtspslb none, dbind

cookie name: LBPERIDM

cookie persistence mode: insert

inserted cookie expires with the session

real servers:

151: IDMPERAPPW001, backup none, 83 ms, group ena, up

152: IDMPERAPPW002, backup none, 84 ms, group ena, up

28916: rport 28916, group 155, CIDWS\_PER-28916, backup none, secbkp none, content /alteon/test.txt, rtspslb none, dbind

real servers:

151: IDMPERAPPW001, backup none, 107 ms, group ena, up

152: IDMPERAPPW002, backup none, 84 ms, group ena, up

**How to do new configuration for new servers in Alteons (SLB Configuration)**

**Refer page no: 307-322 cmd\_ref.x.x.x.x.pdf**

**/=root**

**/c/slb/real <server name> = /cfg/slb/real <server name>**

**C=cfg=configuration**

**real <server name**> should be between 1-1023 and should be unique.

**virt <server name**> should be between 1-1024 and should be unique.

**group <server name**> should be between 1-1024 and should be unique.

**We follow the sequence as below:**

REAL server

Groups

Virtual server

Services

**Real server configuration:**

***/cfg/slb/real <server number>***

***Real Server SLB Configuration***

**[Real Server 1 Menu]**

**adv - Real Server Advanced Menu**

**layer7 - Layer 7 Command Menu**

**ids - IDS Command Menu**

**ipver - Set IP version**

**rip - Set IP addr of real server**

**name - Set real server name**

**weight - Set weight for real server**

**maxcon - Set maximum number of connections**

**tmout - Set minutes inactive connection remains open**

**backup - Set backup real server**

**preempt - Enable/Disable backup preemption**

**inter - Set interval between health checks**

**retry - Set number of failed attempts to declare server DOWN**

**restr - Set number of successful attempts to declare server UP**

**overflo - Enable/Disable backup on overflow**

**addport - Add real port to server**

**remport - Remove real port from server**

**ena - Enable real server**

**dis - Disable real server**

**del - Delete real server**

**cur - Display current real server configuration**

/c/slb/real 172

ena **/\* comment:- by default its DISABLED**

ipver v4 **/\* comment:- by default its ip version 4 for optus**

rip 10.8.194.245 **/\* comment:- rip=real ip**

tmout 4 **/\* comment:- tmout=timeout of a server. It can differ for each and every server**

name "saiprdappl002" **/\* comment;- name of the server**

/c/slb/real 173

ena

ipver v4

rip 10.8.194.246

tmout 4

name "saiprdappl003"

/c/slb/real 174

ena

ipver v4

rip 10.8.194.247

tmout 4

name "saiprdappl004"

/c/slb/real 175

ena

ipver v4

rip 10.8.194.248

tmout 4

name "saiprdappl005"

**Group Configuration:**

***/cfg/slb/group <real server group number>***

***Real Server Group SLB Configuration***

**[Real Server Group 1 Menu]**

**ipver - Set IP version**

**metric - Set metric used to select next server in group**

**rmetric - Set metric used to select next rport in server**

**content - Set health check content**

**health - Set health check type**

**slowstr - Set slow start time**

**backup - Set backup real server or group**

**secbkp - Set second backup group**

**name - Set real server group name**

**realthr - Set real server failure threshold**

**idsrprt - Set Intrusion Detection Port**

**advhlth - Set an advance group health check formula**

**mhash - Set minmisses hash parameter**

**wlm - Set Workload Manager number**

**secret - Set RADIUS secret**

**viphlth - Enable/disable VIP health checking in DSR mode**

**ids - Enable/disable Intrusion Detection**

**idsfld - Enable/disable Intrusion Detection Group Flood**

**oper - Enable/disable the access to this group for operator**

**ena - Enable real server in this group**

**dis - Disable real server in this group**

**add - Add real server**

**rem - Remove real server**

**del - Delete real server group**

**cur - Display current group configuration**

/c/slb/group 170

ipver v4

metric roundrobin /\* Comment: 90% optus servers are on roundrobin , clarfy is on metric hash and by default , its leastconns

health http

content "/alteon/test.txt"

add 171

add 172

add 173

add 174

name "SAINT\_HTTP"

/c/slb/group 171

ipver v4

metric roundrobin

health sslh

add 171

add 172

add 173

add 174

name "SAINT\_HTTPS"

**Virtual servers**

/c/slb/virt 170

ena

ipver v4

vip 10.8.50.23

dname "saiprdapp.optus.com.au"

**Service Configuration**

/c/slb/virt 170/service http

group 170

dbind ena

/c/slb/virt 170/service https

group 171

dbind ena

/c/l3/vrrp/vr 170

ena

ipver v4

vrid 170

addr 10.8.50.23

prio 97

if 11

share dis

track

ports e

***Advanced Health Check Configuration page no: 373-374***

***/cfg/slb/advhc or /c/slb/advhc***

**[Layer 4 Advanced Health Check Menu]**

**script - Scriptable Health Check Menu**

**snmphc - SNMP Health Check Menu**

**waphc - WAP Health Check Menu**

**aphttp - Enable/disable Allow HTTP Health Check on any port**

**ldapver - LDAP version**

**secret - Set RADIUS secret**

**minter - Set interval of response and bandwidth metric updates**

**cur - Display current Layer 4 advanced health check configuration**

**script <health script number (1-64)>**

Displays the Scriptable Health Check Menu.

**/cfg/slb/advhc/script <health script number>**

**Scriptable Health Checks Configuration**

Scriptable health checks provide a robust and extensible way to health check a group of real

servers. With these health checks, the users can define their own health checks of varied

complexity. The ASCII and binary-based scripts control how a group of real servers are healthchecked.

So both TCP and UDP services can be health-checked.

The Health Script menu provides commands that can be used to define the health "script." The total

number of characters cannot exceed 6144 bytes. Up to 64 scripts can be configured.

**[Health Script 1 Menu]**

**open - Add open command to end of script**

**send - Add send command to end of script**

**bsend - Add binary send command to end of script**

**nsend - Add additional send binary string to end of script**

**expect - Add expect command to end of script**

**bexpect - Add binary expect command to end of script**

**nexpect - Add additional expect binary string to end of script**

**offset - Add offset command to end of script**

**depth - Add depth command to end of script**

**wait - Add wait command to end of script**

**close - Add close command to end of script (TCP only)**

**rem - Remove last command from script**

**del - Delete script**

**cur - Display current script configuration**

**To configuration script**

**================================================**

/c/slb/advhc/script 9

open "7101,tcp"

send "GET /inbound/Health.do HTTP/1.0\\r\\n\\r\\n"

expect "HTTP/1.1 200"

close

**Above command returns true /false**

**we will configure or mention script under group**

/c/slb/group 90

ipver v4

metric roundrobin

health script9 //name of script config

add 91

add 92

/c/slb/advhc/script 9

open "7101,tcp" /\* port 7101 \*/

send "GET /inbound/Health.do HTTP/1.0\\r\\n\\r\\n"

expect "HTTP/1.1 200"

close

open "8080,tcp" /\* port 8080 \*/

send "GET /someotherfile.do HTTP/1.0\\r\\n\\r\\n"

expect "HTTP/1.1 200"

close

/c/slb/real 12

ena

ipver v4

rip 10.10.43.44

inter 3

name "acsprdinfw003"

addport 1645