

The screenshot shows a web browser window with the URL `https://121.52.154.19/toolkit/gui/services/`. The page displays a list of services under the heading "Services Offered". The status of each service is indicated by a color-coded label: "Running" in green and "Not Running" in red.

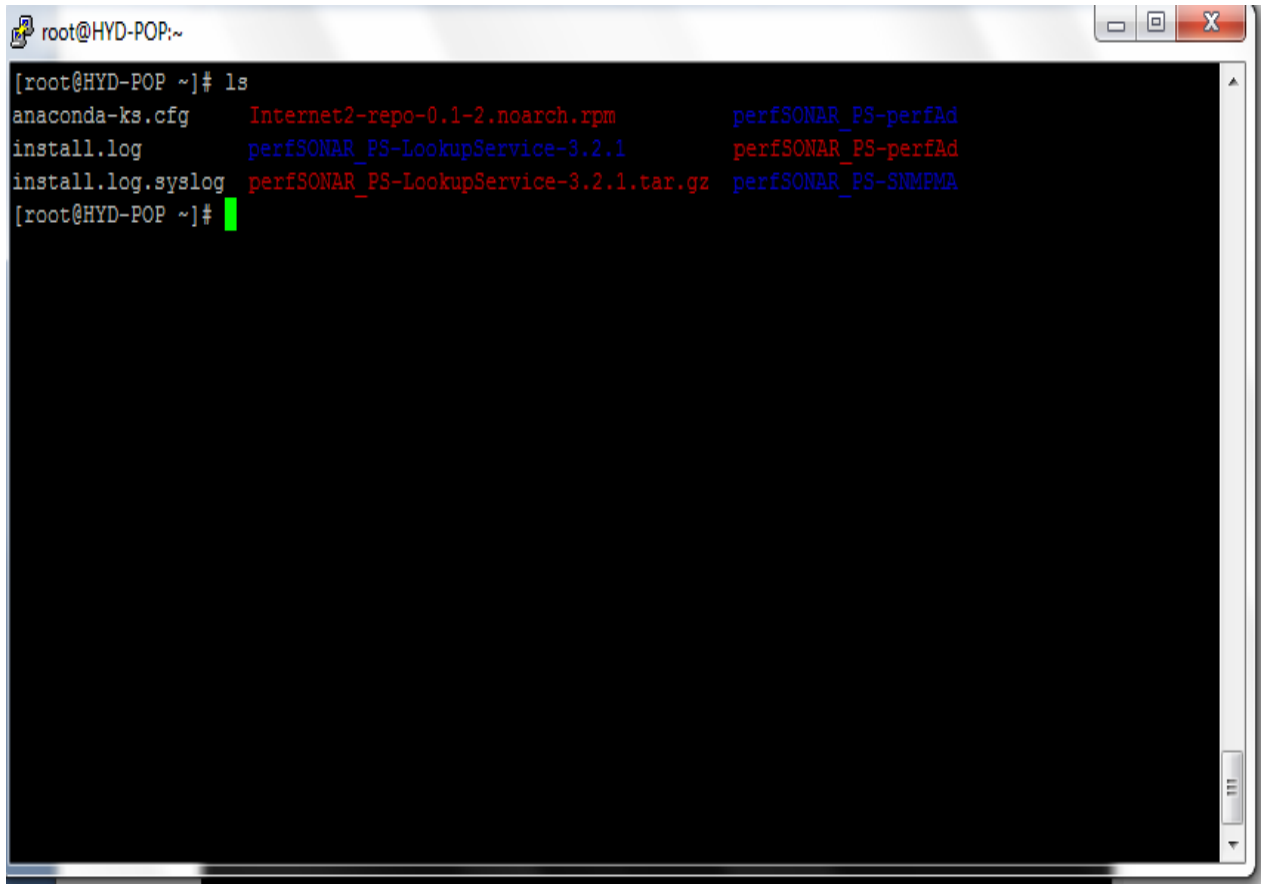
Service Name	Status
Bandwidth Test Controller (BWCTL)	Running
<ul style="list-style-type: none"><code>tcp://121.52.154.19.pern.pk:4823</code>	
Lookup Service	Not Running
<ul style="list-style-type: none"><code>http://121.52.154.19.pern.pk:9995/perfSONAR_PS/services/hLS</code>	
Network Diagnostic Tester (NDT)	Running
<ul style="list-style-type: none"><code>tcp://121.52.154.19.pern.pk:3001</code><code>http://121.52.154.19.pern.pk:7123</code>	
Network Path and Application Diagnosis (NPAD)	Running
<ul style="list-style-type: none"><code>tcp://121.52.154.19.pern.pk:8100</code><code>http://121.52.154.19.pern.pk:8000</code>	
One-Way Ping Service (OWAMP)	Running
<ul style="list-style-type: none"><code>tcp://121.52.154.19.pern.pk:861</code>	
perfSONAR-BUOY Regular Testing (Throughput)	Not Running
perfSONAR-BUOY Measurement Archive	Not Running
<ul style="list-style-type: none"><code>http://121.52.154.19.pern.pk:8085/perfSONAR_PS/services/pSB</code>	
perfSONAR-BUOY Regular Testing (One-Way Latency)	Not Running
PingER Measurement Archive and Regular Tester	Not Running
<ul style="list-style-type: none"><code>http://121.52.154.19.pern.pk:8075/perfSONAR_PS/services/pinger/ma</code>	
SNMP Measurement Archive	Not Running
<ul style="list-style-type: none"><code>http://121.52.154.19.pern.pk:9990/perfSONAR_PS/services/SNMPMA</code>	

The browser's address bar shows the URL `https://121.52.154.19/toolkit/gui/services/`. The browser's search bar contains the text `sudo /etc/init.d/lookup`. The browser's tabs show several instances of `pS-Perfor...` and `Problem lo...`. The browser's status bar shows `Done`.

All services are showing down accept the default one's. Although these all are running and running at command prompt, as demonstrated below ...

```
root@HYD-POP:~  
[root@HYD-POP ~]# sudo /etc/init.d/PingER restart  
/etc/init.d/PingER stop: daemon.pl stopped  
waiting...  
/opt/perfsonar_ps/PingER/bin/daemon.pl --config=/opt/perfsonar_ps/PingER/etc/dae  
mon.conf --pidfile=/var/run --pidfile=pinger.pid --logger=/opt/perfsonar_ps/PingE  
R/etc/daemon_logger.conf --user=perfsonar --group=perfsonar  
/etc/init.d/PingER start: daemon.pl started  
[root@HYD-POP ~]#  
[root@HYD-POP ~]#  
[root@HYD-POP ~]#  
[root@HYD-POP ~]#  
[root@HYD-POP ~]#  
[root@HYD-POP ~]#  
[root@HYD-POP ~]#  
[root@HYD-POP ~]#  
[root@HYD-POP ~]# sudo /etc/init.d/snmp_ma restart  
/etc/init.d/snmp_ma stop: perfSONAR SNMP MA Service stopped  
waiting...  
/opt/perfsonar_ps/snmp_ma/bin/daemon.pl --config=/opt/perfsonar_ps/snmp_ma/etc/daemon.conf --pidfile=snmp_ma.pid --piddir=/var/run --logger=/opt/perfsonar_ps  
/snmp_ma/etc/daemon_logger.conf --user=perfsonar --group=perfsonar  
/etc/init.d/snmp_ma start: perfSONAR SNMP MA Service started  
[root@HYD-POP ~]#  
[root@HYD-POP ~]#  
[root@HYD-POP ~]#  
[root@HYD-POP ~]#  
[root@HYD-POP ~]#  
[root@HYD-POP ~]#  
[root@HYD-POP ~]# sudo /etc/init.d/lookup_service restart  
/etc/init.d/lookup_service stop: perfSONAR Lookup Service (pid 9194?) not running  
waiting...  
/opt/perfsonar_ps/lookup_service/bin/daemon.pl --config=/opt/perfsonar_ps/lookup_service/etc/daemon.conf --pidfile=lookup_service.pid --piddir=/var/run --log  
ger=/opt/perfsonar_ps/lookup_service/etc/daemon_logger.conf --user=perfsonar --group=perfsonar  
/etc/init.d/lookup_service start: perfSONAR Lookup Service started  
[root@HYD-POP ~]# █
```

PingER, SNMP, Lookup services are up and running at command prompt



```
root@HYD-POP:~  
[root@HYD-POP ~]# ls  
anaconda-ks.cfg      Internet2-repo-0.1-2.noarch.rpm      perfSONAR_PS-perfAd  
install.log          perfSONAR_PS-LookupService-3.2.1    perfSONAR_PS-perfAd  
install.log.syslog  perfSONAR_PS-LookupService-3.2.1.tar.gz  perfSONAR_PS-SNMPMA  
[root@HYD-POP ~]#
```

Packages are installed... (at same configuration two servers are working good and shows green status at all services)

The screenshot displays a web browser window with the following details:

- Browser Title:** pS-Performance Node - pS-Performance Node For HEC in ISB_POP - Mozilla Firefox
- Address Bar:** http://111.68.97.78/toolkit/gui/services/
- Page Content:** Services Offered
- Services and Status:**
 - Sandwidth Test Controller (BWCTL)**: Running
 - tcp://192.168.122.1:4823
 - tcp://speedtest.perm.edu.pk:4823
 - Lookup Service**: Running
 - http://192.168.122.1:9995/perFONAR_PS/services/HLS
 - http://speedtest.perm.edu.pk:9995/perFONAR_PS/services/HLS
 - Network Diagnostic Tester (NDT)**: Running
 - tcp://192.168.122.1:3001
 - http://192.168.122.1:7123
 - tcp://speedtest.perm.edu.pk:3001
 - http://speedtest.perm.edu.pk:7123
 - Network Path and Application Diagnosis (NPAD)**: Running
 - tcp://192.168.122.1:8100
 - http://192.168.122.1:8000
 - tcp://speedtest.perm.edu.pk:8100
 - http://speedtest.perm.edu.pk:8000
 - One-Way Ping Service (OWAMP)**: Running
 - tcp://192.168.122.1:861
 - tcp://speedtest.perm.edu.pk:861
 - perFONAR-BUOY Regular Testing (Throughput)**: Not Running
 - perFONAR-BUOY Measurement Archive**: Running
 - http://192.168.122.1:8085/perFONAR_PS/services/p5B
 - http://speedtest.perm.edu.pk:8085/perFONAR_PS/services/p5B
 - perFONAR-BUOY Regular Testing (One-Way Latency)**: Running
 - PingER Measurement Archive and Regular Tester**: Running
 - http://192.168.122.1:8075/perFONAR_PS/services/pinger/ma
 - http://speedtest.perm.edu.pk:8075/perFONAR_PS/services/pinger/ma

Running all services at same above configuration.....