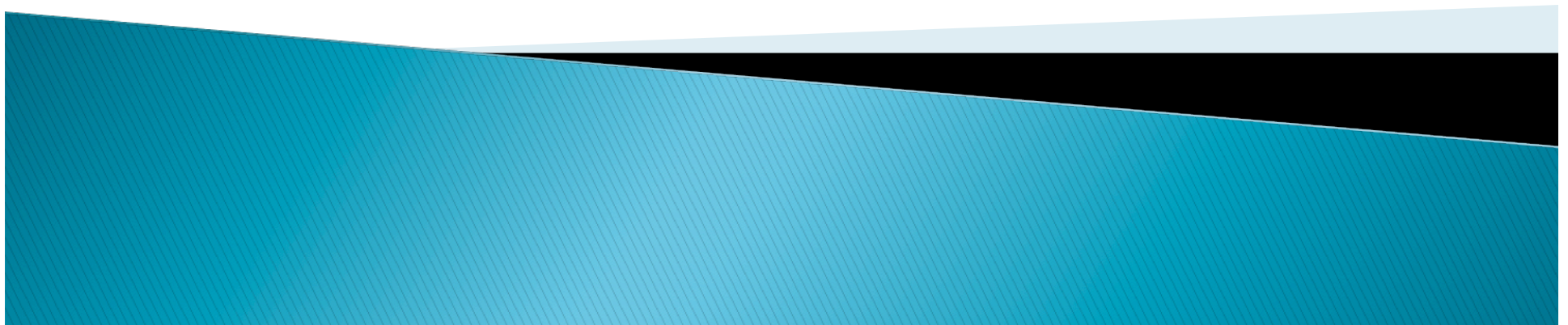


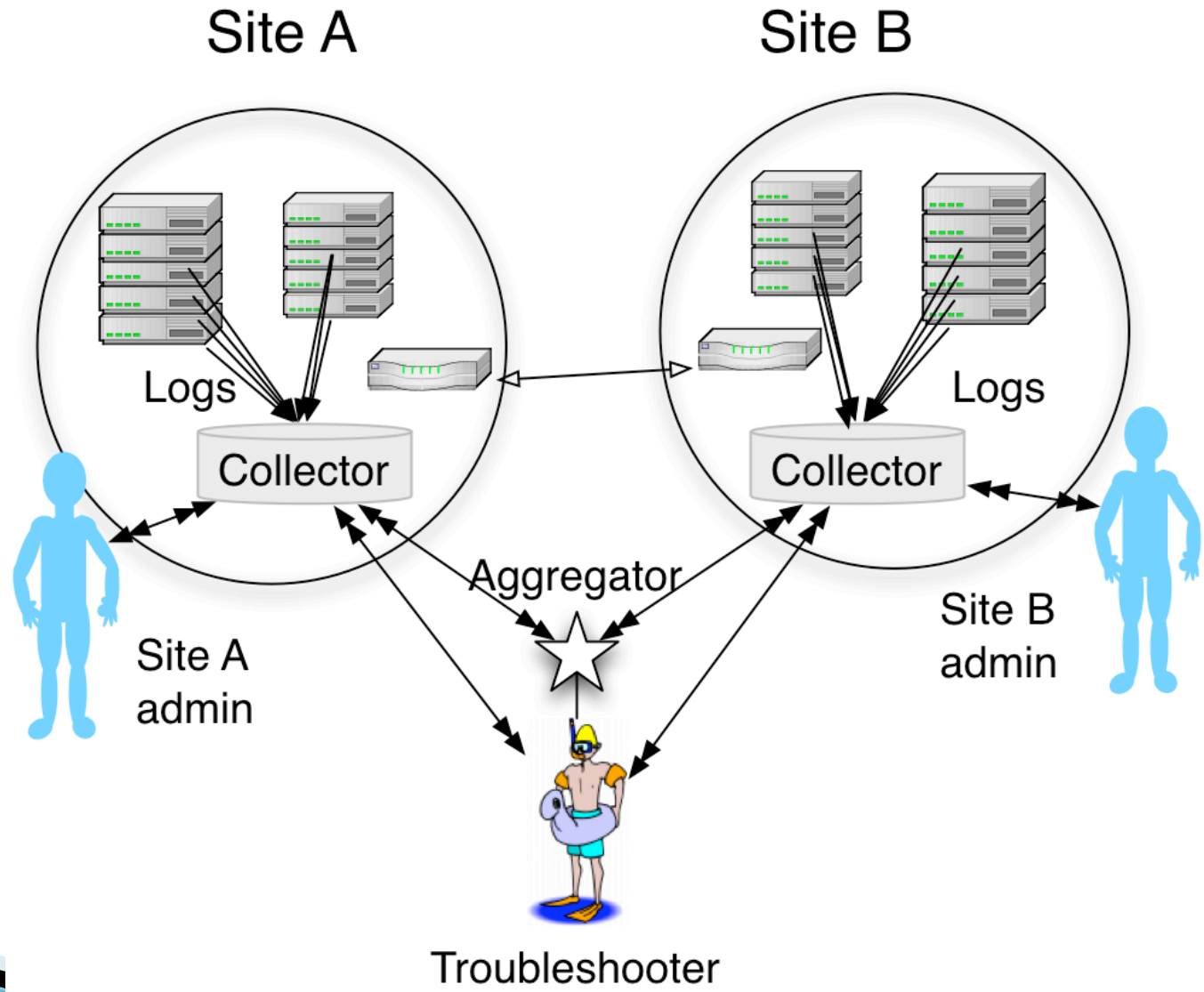
Center for Enabling Distributed Petascale Science (CEDPS)

A SciDAC Center for Enabling Technology

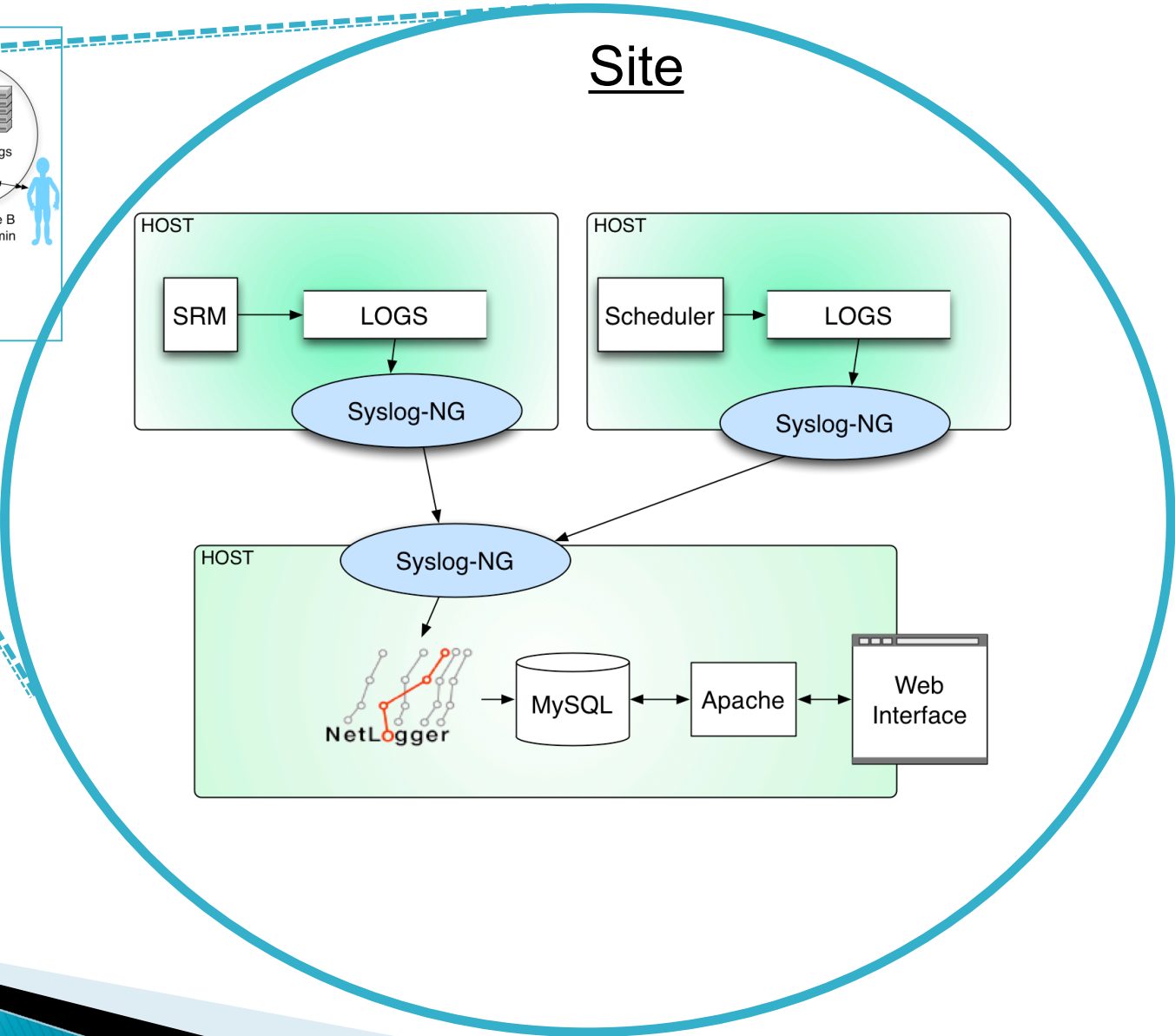
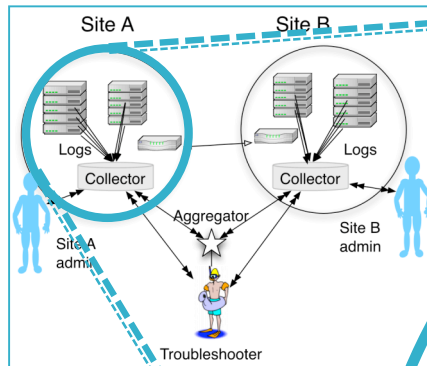
OSG Site Administrator Workshop

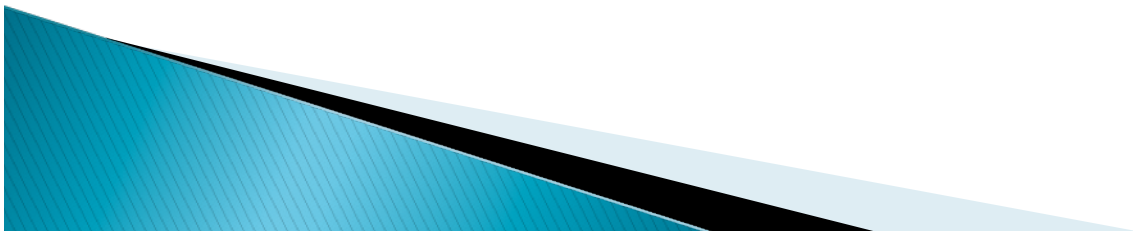


Cross-site Architecture



Site Architecture





Syslog-ng configuration

Syslog-ng is a part of the OSG/VDT Bestman package

```
[root@pdsfgrid2 ~]# vdt-control --list
Service          | Type   | Desired State
-----+-----+-----
fetch-crl        | cron   | do not enable
vdt-rotate-logs  | cron   | enable
vdt-update-certs | cron   | do not enable
gsiftp           | inetd  | enable
gratia-gridftp-tran| cron   | do not enable
bestman          | init   | enable
edg-mkgridmap    | cron   | do not enable
gums-host-cron   | cron   | do not enable
syslog-ng-sender | init   | enable
```

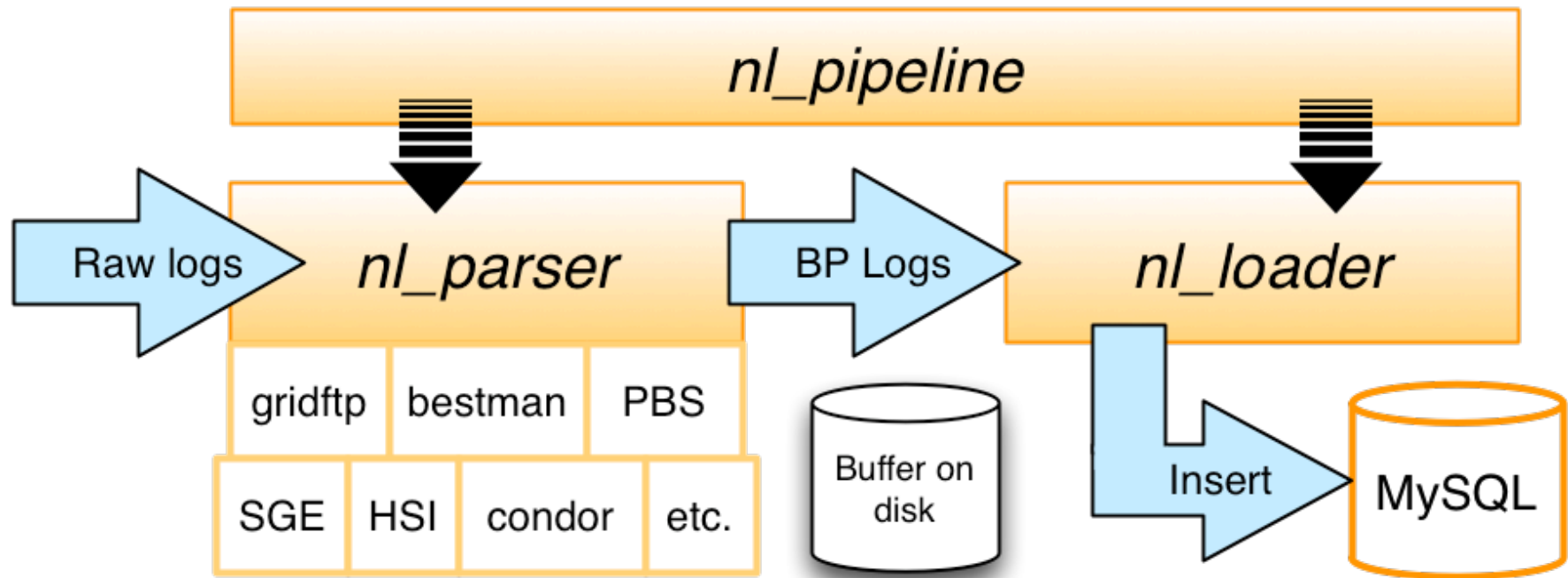
```
[root@pdsfgrid2 ~]# vdt-version
You have installed a subset of VDT version 1.10.1v:
Software
Berkeley Storage Manager (BeStMan)
EDG Make Gridmap 3.0.0
Fetch CRL 2.6.6
GPT 3.2autotools2004-NMI-9.0
Gratia GridFTP Probe 1.02.1-5
Grid User Management System (GUMS) Client
Java 5 SDK 1.5.0_17
Java 6 SDK 1.6.0_11
Logrotate 3.7
PRIMA Authorization Module 0.8.3
syslog-ng 2.0.8
vdt-update-certs 2.2
Wget 1.11.4
```



Syslog-ng configuration

```
[root@pdsfgrid2 etc]# cat syslog-ng-sender.conf
# WARNING!
# Use the script at $VDT_LOCATION/vdt/setup/configure_syslog_ng_sender to edit
# this file. Manual editing of this file is discouraged. Manual changes may
# be lost when using the automatic configuration script, or they may severely
# confuse the configure_syslog_ng_sender script during future edits.
options {
    time_sleep(500); # polling interval, in ms (make this once per second)
    use_fqdn(yes); # use fully qualified domain names
    ts_format(iso); # use ISO8601 timestamps
    # for normal load
    flush_lines (10); # number of lines to buffer before writing to disk
    log_fifo_size(100);
    stats_freq(3600); # number of seconds between syslog-ng internal stats events; these are useful
                    # for ensuring syslog-ng is not getting overloaded
};
# Sources
source gridftp_auth_log { file ("/export/data/OSG-1.0.1/globus/var/log/gridftp-auth.log" follow-freq(1) flags(no-parse)
    log_prefix('gridftp_auth_log ') ); };
source gridftp_log { file ("/export/data/OSG-1.0.1/globus/var/log/gridftp.log" follow-freq(1) flags(no-parse)
    log_prefix('gridftp_log ') ); };
source event_srm_log { file ("/export/data/OSG-1.0.1/vdt-app-data/bestman/logs/event.srm.log" follow-freq(1) flags(no-parse)
    log_prefix('event_srm_log ') ); };
source syslog_ng { internal(); };
source test_src { unix-stream("/tmp/syslog-ng-test"); };
# Destinations
destination local_collector { udp("osp.nersc.gov" port(5145) ); };
destination syslog_ng_dest { file ("/export/data/syslog-ng/syslog-ng.log" perm(0644) ); };
# Define what should be forwarded to the destinations
# Definitions
log { source(gridftp_auth_log); destination(local_collector); flags(flow-control); };
log { source(gridftp_log); destination(local_collector); flags(flow-control); };
log { source(event_srm_log); destination(local_collector); flags(flow-control); };
```

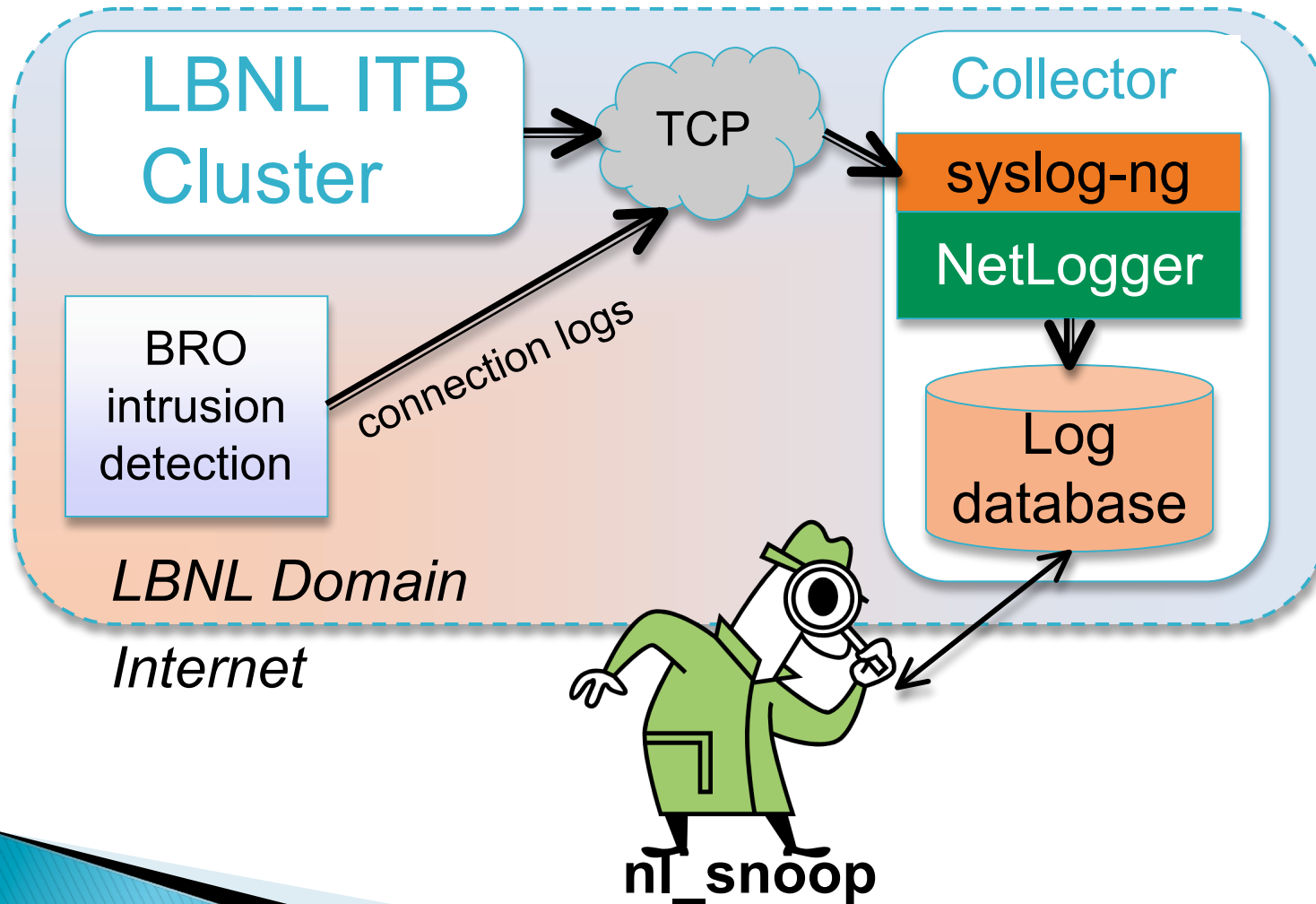
NetLogger “Pipeline”



Use-Case for OSG Security: *nl_snoop*

- ▶ Scenario
 - An OSG user's account is compromised; all jobs in last week are suspect
- ▶ Current approach
 - Each site admin needs to find jobs run and resources accessed by that user's DN
- ▶ Improvement
 - A command-line tool, *nl_snoop*, queries the NetLogger site log database and reports all information for that DN
- ▶ Status
 - Being tested by OSG Security team

nl_snoop Deployment Example



nl_snoop sample output

```
$ nl_snoop -d netlogger -u mysql://netlogger@localhost:49152 -t "1 week  
ago"::now -p "/DC=org/DC=doegrids/OU=People/CN=James Alan Basney 710056"  
Password:
```

```
Activity for '/DC=org/DC=doegrids/OU=People/CN=James Alan Basney 710056'  
between 2009-05-28T14:10:11.429331-05:00 and 2009-06-04T14:10:11.429636-05:00
```

* Jobs:

Start time (-05:00)	End time	Host	User (UID,GID)	Sched	Exec
-----	-----	----	-----	-----	-----
2009-06-04T13:15:49	...13:15:50	foo.edu	mis (65002,2)	fork	unknown

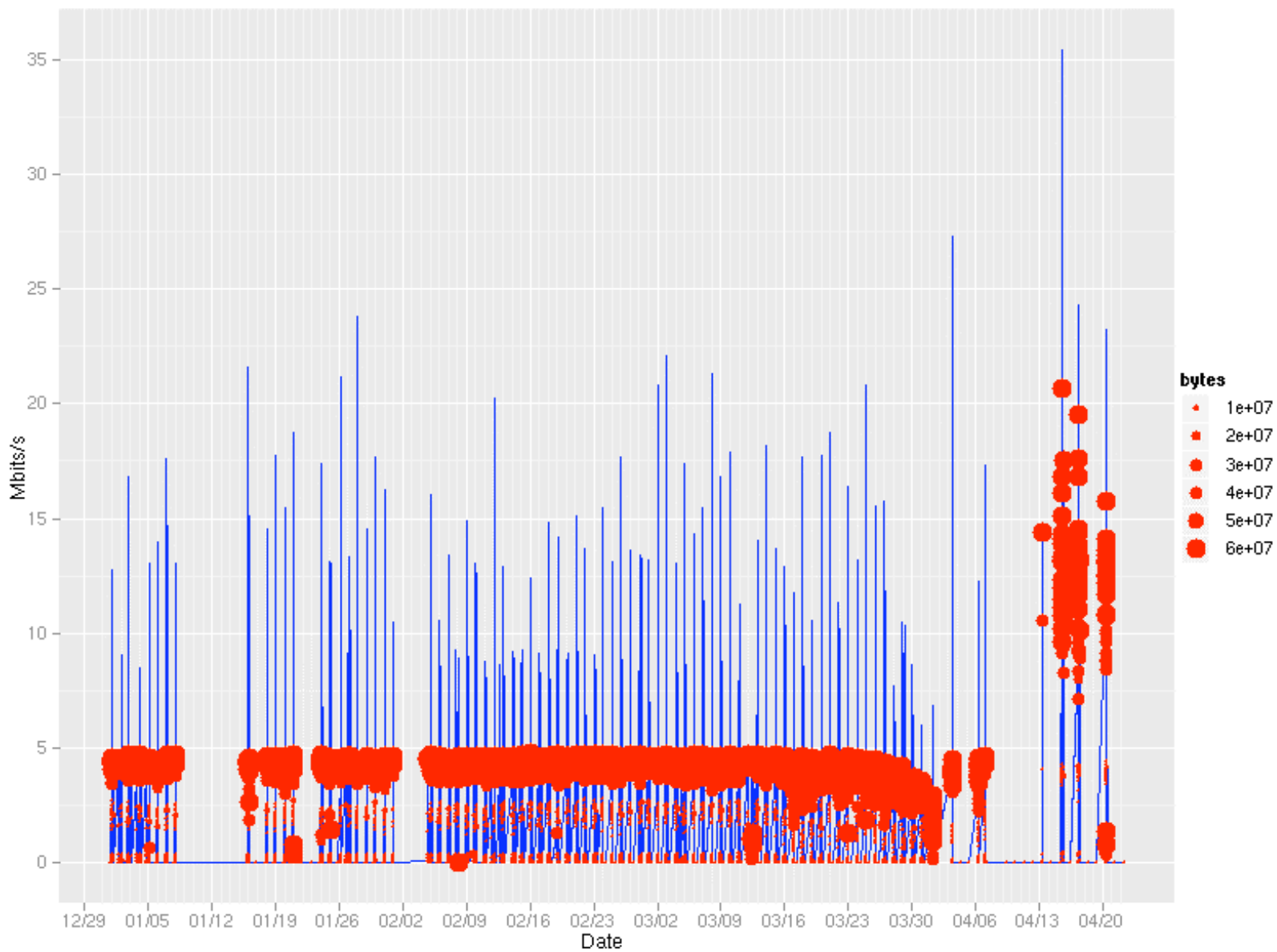
* GridFTP Transfers:

Start time (-05:00)	End time	Host	Port	User	Filename
-----	-----	----	----	----	-----
2009-06-04T14:09:59	...14:09:59	foo.edu	52383	mis	/tmp/jim.log



[https://twiki.grid.iu.edu/bin/view/Security/Logging2009#
Example_nl_snoop_output](https://twiki.grid.iu.edu/bin/view/Security/Logging2009#Example_nl_snoop_output)

BeStMan performance



More information

- ▶ **NetLogger**
 - <http://acs.lbl.gov/NetLoggerWiki/>
 - Downloads, documentation, etc.
- ▶ **CEDPS Troubleshooting**
 - <http://www.cedps.net/index.php/Troubleshooting>
- ▶ **Contact**
 - Dan Gunter - dkgunter@lbl.gov
 - Keith Beattie - ksbeattie@lbl.gov

