SLAC perfSONAR-PS Customisations

Background

SLAC install has some differences

- all files kept in AFS
- centralised configuration
- mount of disk partition for data
- move of mysql database storage to separate partition
- use of apache redirect for calls

AFS

- symlinked /opt/perfsonar to /afs/slac.stanford.edu/package/perfSONAR-PS/dist/
- config files kept in /afs/slac.stanford.edu/package/perfSONAR-PS/etc/
 - o each file is named to appropriate service
- · customisations on init.d files to reflect above
 - o install file located at /afs/slac.stanford.edu/package/perfSONAR-PS/etc/init.d/
 - o will delete services from install and put in new ones with pointers to new config files
 - o add's chkconfig stuff

Partitions

- largest disk partition mounted at /var/lib/perfsonar for data
- mysql

```
o mv /var/lib/mysql /var/lib/perfsonar/
o sudo ln -sf /var/lib/perfsonar/mysql/ mysql
```

Log Rotate

```
/etc/logrotate.d/perfsonar
/var/log/perfsonar_services.log {
    missingok
    notifempty
    sharedscripts
    postrotate
    endscript
}
```

Apache Redirects

all perfsonar hosts are

hostname	
psnr-lat01.slac.stanford. edu	
psnr-bw01.slac.stanford. edu	

which run the following dns alias'

alias	purpose
psnr-ls.slac.stanford.edu	lookup service
psnr-pinger.slac.stanford.edu	pinger service
psnr-buoy.slac.stanford.edu	perfsonar buoy service
owamp.slac.stanford.edu	owamp service
bwctl.slac.stanford.edu	bwctl service

psnr-snmpma.slac.stanford.edu	snmp ma service
psnr-traceroute.slac.stanford.edu	traceroute service
ndt.slac.stanford.edu and netspeed.slac.stanford.edu	ndt service
npad.slac.stanford.edu	npad service

in addition, for http services (such as the web service communication and the perfAdmin web pages), we shall use an apache redirect such that

outside address	redirect address
perfsonar.slac.stanford.edu:80/perfSONAR_PS/services/hLS	psnr-ls.slac.stanford.edu:9995/perfSONAR_PS/services/hLS
perfsonar.slac.stanford.edu:80/perfSONAR_PS/services/pinger /ma	psnr-pinger.slac.stanford.edu:8075/perfSONAR_PS/services/pinger/ma
perfsonar.slac.stanford.edu:80/perfSONAR_PS/services/pinger /mp	psnr-pinger.slac.stanford.edu:8075/perfSONAR_PS/services/pinger/mp
perfsonar.slac.stanford.edu:80/perfSONAR_PS/services/pSB	psnr-buoy.slac.stanford.edu:8085/perfSONAR_PS/services/pSB
perfsonar.slac.stanford.edu:80/perfSONAR_PS/service/snmpma	psnr-snmpma.slac.stanford.edu:9990/perfSONAR_PS/services /SNMPMA

Database

moved to /var/lib/perfsonar/mysql

```
$ sudo cp -rpv /var/lib/mysql /var/lib/perfsonar/
$ sudo chown -R mysql:perfsonar /var/lib/perfsonar/mysql/
```

/etc/my.cnf

```
[mysqld]
datadir=/var/lib/perfsonar/mysql
socket=/var/lib/perfsonar/mysql/mysql.sock
user=mysql
# Default to using old password format for compatibility with mysql 3.x
# clients (those using the mysqlclient10 compatibility package).
old_passwords=1
tmpdir=/tmp/
# Disabling symbolic-links is recommended to prevent assorted security risks;
# to do so, uncomment this line:
# symbolic-links=0
[mysqld_safe]
log-error=/var/log/mysqld.log
pid-file=/var/run/mysqld/mysqld.pid
```

Initialise the DB

```
$ sudo /usr/bin/mysql_install_db --user=mysql
Installing MySQL system tables...
100512 16:36:15 [Warning] option 'max_join_size': unsigned value 18446744073709551615 adjusted to 4294967295
100512 16:36:15 [Warning] option 'max_join_size': unsigned value 18446744073709551615 adjusted to 4294967295
OK
Filling help tables...
100512 16:36:15 [Warning] option 'max_join_size': unsigned value 18446744073709551615 adjusted to 4294967295
100512 16:36:15 [Warning] option 'max_join_size': unsigned value 18446744073709551615 adjusted to 4294967295
To start mysqld at boot time you have to copy
support-files/mysql.server to the right place for your system
PLEASE REMEMBER TO SET A PASSWORD FOR THE MySQL root USER !
To do so, start the server, then issue the following commands:
/usr/bin/mysqladmin -u root password 'new-password'
/usr/bin/mysqladmin -u root -h psnr-bw01 password 'new-password'
Alternatively you can run:
/usr/bin/mysql_secure_installation
which will also give you the option of removing the test
databases and anonymous user created by default. This is
strongly recommended for production servers.
See the manual for more instructions.
You can start the MySOL daemon with:
cd /usr ; /usr/bin/mysqld_safe &
You can test the MySQL daemon with mysql-test-run.pl
cd mysql-test; perl mysql-test-run.pl
Please report any problems with the /usr/bin/mysqlbug script!
The latest information about MySQL is available on the web at
http://www.mysql.com
Support MySQL by buying support/licenses at http://shop.mysql.com
```

```
$ sudo /etc/init.d/mysqld start
Starting MySQL: [ OK ]
```

installation should now be secure.

All done! If you've completed all of the above steps, your MySQL

Thanks for using MySQL!