

Steps

Install Alarm server

*Download Apache ActiveMQ 5.9.0 //At this time, the download link on Apache website doesn't work. Instead, downloaded it from openlogic

*unzip activemq

>./activemq start

>yum list installed mysql-server //check if mysql server has been installed, if not, install it

>yum list installed mysql //check if mysql client has been installed, if not, install it

>sudo /sbin/service mysqld start //start mysql server

>cd /home/controls/bldemo/css/BEAST

*copy MYSQL_USER.sql and ALARM_MYSQL.sql from BEAST source code plugin
org.csstudio.alarm.beast to here

>mysql -u root <MYSQL_USER.sql //create user alarm with password \$alarm

>mysql -u root <ALARM_MYSQL.sql

>cd /home/controls/css/BEAST/

>wget http://ics-web.sns.ornl.gov/css/nightly/alarm_server_3.2.16-linux.gtk.x86_64.zip

>unzip alarm_server_3.2.16-linux.gtk.x86_64.zip

*Since I need full privilege on ALRM table, I increased my privilege:

>mysql -u root

mysql>GRANT ALL ON ALARM.* TO alarm@'%';

mysql> flush privileges;

>cd /home/controls/bldemo/css/BEAST

*create alarm_server script to start alarm from service (replace chenxh to your user name)

-----alarm_server script-----

#!/bin/sh

ALARM_SERVER=/home/controls/css/BEAST/AlarmServer_3.2.16

Use 4809 for telnet access

CONSOLE=4809

Combine global settings with beam-line settings

INI=/tmp/alarm_server.ini

cat /home/controls/css/settings.ini /home/controls/bldemo/css/settings.ini >\$INI

ARGS="-console \$CONSOLE -data \$ALARM_SERVER/workspace -consoleLog

-pluginCustomization \$INI"

USER=chenxh

unset DISPLAY

function start()

{

su - \$USER -c "nohup \$ALARM_SERVER/AlarmServer \$ARGS

>>\$ALARM_SERVER/console.log 2>&1 &"

}

function stop()

{

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        echo close | nc localhost $CONSOLE
    }

case $1 in
start)
    start
    ;;
stop)
    stop
    ;;
restart)
    stop
    start
    ;;
status)
    ps aux | fgrep AlarmServer | grep -v fgrep
    ;;
console)
    telnet localhost $CONSOLE
    ;;
*)
    echo "Usage: $0 {start|stop|restart|status|console}"
    exit 2
esac

```

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>sudo cp alarm_server /etc/rc.d/init.d/
>sudo chkconfig --add alarm_server
>sudo chkconfig alarm_server on
>sudo chkconfig --list alarm_server
>service alarm_server //check if it is successfully installed
>service alarm_server start

```

Install Alarm UI to CSS

- *Menu->Help->Install New Software...
- *Select Work with to: "SNS update-site - <http://ics-web.sns.ornl.gov/css/updates/>"
- *Install Optional SNS Control Room Tools
- *After Install, restart CSS
- *Menu->Edit->Preference->CSS Applications->Alarm->Alarm System
- *In the URL entries, replace "localhost" to "192.168.37.197"
- *Click OK and Restart CSS.
- *Menu->Window->Open Perspective->Alarm

Resources

<http://sourceforge.net/apps/trac/cs-studio/wiki/BEASTManual>