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| **CÔNG TY CỔ PHẦN ĐẦU TƯ PHÁT TRIỂN  CÔNG NGHỆ ỨNG DỤNG TOÀN CẦU** |
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| **Cài đặt Script cảnh báo trạng thái STREAMS** |
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| Version 1.0 |
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| **Hà nội 11 - 2013** |

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# Chức năng của script:

Cảnh báo qua email khi trạng thái của STREAMS trên Database nguồn hoặc Database đích là DISABLED hoặc ABORTED. Có 2 file tương ứng cài đặt ở Database nguồn và Database đích trong cấu hình STREAMS.

# Các bước cài đặt

## Mở firewall để máy chủ đặt script kết nối được với SMTP Server.

## Tạo 1 tài khoản mail trên SMTP Server.

## Copy 2 file check\_streams.sh và send\_mail.pl lên server.

**Trên VIBRIP1:**

$ copy send\_mail.pl /export/home/oradb/hyper/scripts/

$ copy check\_stream.sh /export/home/oradb/hyper/scripts/

**Trên VIBRIPON1:**

$ copy send\_mail.pl /home/oracle/log/

$ copy check\_stream.sh /home/oracle/log/

## Sửa các thông tin về user, password và IP SMTP Server trong file send\_mail.pl.

Các tham số cần thay đổi :

* $EMAIL\_ORA: Đường dẫn đến file email tạm.
* $SENDER: Email gửi cảnh báo.
* $TO\_USER, $CC\_USER\_FOR\_VIEW: Email nhận cảnh báo.
* $user: Tài khoản đăng nhập email gửi cảnh báo.
* $passwd: Mật khẩu email gửi cảnh báo.
* $smtp: Địa chỉ IP của SMTP Server.

**Trên VIBRIP1:**

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| #!/usr/bin/perl -w  use Net::SMTP;  use MIME::Base64;  $EMAIL\_ORA="/export/home/oradb/hyper/scripts/email.ora";  $SENDER="alertoracle\@abr.com";  $TO\_USER="tungvn\@abr.com";  @CC\_USER=("");  $CC\_USER\_FOR\_VIEW="";  $user="alertoracle\@abr.com";  $passwd="Abcd\@123";  sub send\_email  {  my $ALARM=" ";  my $SUBJECT\_MSG=" ";  open (LOG\_FILE,$EMAIL\_ORA)||die("cannot open file $EMAIL\_ORA!!!");  my @lines=<LOG\_FILE>;  close(LOG\_FILE);  $max\_row=$#lines;  $i=0;  while ($i <= $max\_row)  {  chomp($lines[$i]);  $ALARM=$ALARM.$lines[$i]."<br>";  $i++;  }    $smtp = Net::SMTP->new("10.1.42.54",  Hello => 'Test',  Timeout => 60);  my $subject =" ";  $subject="Canh bao STREAMS NSBR Basic` ";  my $MESSAGE\_BODY = "<body><h2>CANH BAO TU HE THONG: </h2><font face='Arial' size='2'>$ALARM</font></body>";  $smtp->datasend("AUTH LOGIN\n");    $smtp->response();  $smtp->datasend(encode\_base64($user) );  $smtp->response();  $smtp->datasend(encode\_base64($passwd));  $smtp->response();  $smtp->mail($SENDER);  $smtp->to($TO\_USER);  $smtp->cc(@CC\_USER);  $smtp->data();  $smtp->datasend("To: $TO\_USER\n");  $smtp->datasend("From: $SENDER\n");  $smtp->datasend("CC: $CC\_USER\_FOR\_VIEW\n");  $smtp->datasend("Content-Type: text/html;charset=utf-8\n");  $smtp->datasend("Subject: $subject\n");  $smtp->datasend("\n");  $smtp->datasend("$MESSAGE\_BODY");  $smtp->datasend("\n");  $smtp->dataend();  $smtp->quit;  };  send\_email |

**Trên VIBRIPON1**

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| #!/usr/bin/perl -w  use Net::SMTP;  use MIME::Base64;  $EMAIL\_ORA="/home/oracle/log/email.ora";  $SENDER="alertoracle\@abr.com";  $TO\_USER="tungvn\@abr.com";  @CC\_USER=("hadv\@abr.com");  $CC\_USER\_FOR\_VIEW="";  $user="tungvn\@abr.com";  $passwd="Abcd\@123";  sub send\_email  {  my $ALARM=" ";  my $SUBJECT\_MSG=" ";  open (LOG\_FILE,$EMAIL\_ORA)||die("cannot open file $EMAIL\_ORA!!!");  my @lines=<LOG\_FILE>;  close(LOG\_FILE);  $max\_row=$#lines;  $i=0;  while ($i <= $max\_row)  {  chomp($lines[$i]);  $ALARM=$ALARM.$lines[$i]."<br>";  $i++;  }    $smtp = Net::SMTP->new("10.1.42.54",  Hello => 'Test',  Timeout => 60);  my $subject =" ";  $subject="Canh bao STREAMS NSBR Basic` ";  my $MESSAGE\_BODY = "<body><h2>CANH BAO TU HE THONG: </h2><font face='Arial' size='2'>$ALARM</font></body>";  $smtp->datasend("AUTH LOGIN\n");    $smtp->response();  $smtp->datasend(encode\_base64($user) );  $smtp->response();  $smtp->datasend(encode\_base64($passwd));  $smtp->response();  $smtp->mail($SENDER);  $smtp->to($TO\_USER);  $smtp->cc(@CC\_USER);  $smtp->data();  $smtp->datasend("To: $TO\_USER\n");  $smtp->datasend("From: $SENDER\n");  $smtp->datasend("CC: $CC\_USER\_FOR\_VIEW\n");  $smtp->datasend("Content-Type: text/html;charset=utf-8\n");  $smtp->datasend("Subject: $subject\n");  $smtp->datasend("\n");  $smtp->datasend("$MESSAGE\_BODY");  $smtp->datasend("\n");  $smtp->dataend();  $smtp->quit;  };  send\_email |

## Sửa $ORACLE\_HOME, $ORACLE\_SID trong file check\_streams.sh

Các tham số cần thay đổi:

ORACLE\_SID: Tên định danh của Oracle Database.

ORACLE\_HOME: Đường dẫn đến $ORACLE\_HOME

EMAIL: Đường dẫn đến file email tạm.

**Trên VIBRIP1:**

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| #!/bin/bash  ORACLE\_SID=VIBRIP1 ; export ORACLE\_SID  ORACLE\_HOME=/u01/app/oracle/product/11.2.0/dbhome ; export ORACLE\_HOME  LOG=/export/home/oradb/hyper/scripts/stream.log; export LOG  EMAIL=/export/home/oradb/hyper/scripts/email.ora; export EMAIL  time=`/bin/date +%d-%b-%Y%t%T`  cat /dev/null > $EMAIL  result=`$ORACLE\_HOME/bin/sqlplus / as sysdba<<EOF  select capture\_name,status from dba\_capture;  EOF`  check\_streams ()  {  echo "$result"|egrep "DISABLED|ABORTED"| while read alert;  do  echo $alert|awk '{print $1}' >> $EMAIL  done  if [ -s $EMAIL ]  then  echo "$time :[STREAMS] Alert! Capture Processes is not running! " >> $LOG  cat $EMAIL >> $LOG  /export/home/oradb/hyper/scripts/send\_mail.pl  else  echo "$time : File $EMAIL is empty"  fi  }  check\_streams "VIBRIPON1" |

**Trên VIBRIPON**

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| #!/bin/bash  ORACLE\_SID=VIBRIPON1 ; export ORACLE\_SID  ORACLE\_HOME=/u01/app/oracle/11.2.0/db ; export ORACLE\_HOME  LOG=/home/oracle/log/stream.log; export LOG  EMAIL=/home/oracle/log/email.ora; export EMAIL  time=`/bin/date +%d-%b-%Y%t%T`  cat /dev/null > $EMAIL  result=`$ORACLE\_HOME/bin/sqlplus / as sysdba<<EOF  select apply\_name,status from dba\_apply;  EOF`  check\_streams ()  {  echo "$result"|egrep -w "DISABLED|ABORTED"| while read alert;  do  echo $alert|awk '{print $1}' >> $EMAIL  done  if [ -s $EMAIL ]  then  echo "$time :[STREAMS] Alert! Apply Processes is not working! " >> $LOG  cat $EMAIL >> $LOG  /home/oracle/log/send\_mail.pl  else  echo "$time: File $EMAIL is empty"  fi  }  check\_streams "VIBRIPON1" |

## Đặt file check\_streams.sh vào crontab của hệ điều hành

Đặt script check\_streams.sh vào crontab để script chạy một tiếng một lần.

**Trên VIBRIP**

1 \* \* \* \* /export/home/oradb/hyper/scripts/check\_streams.sh >> /export/home/oradb/hyper/scripts/crontab\_stream.log 2>&1

**Trên VIBRIPON**

1 \* \* \* \* /home/oracle/log/check\_streams.sh >> /home/oracle/log/crontab.log 2>&1