Altibase FAQ | Startup & Shutdown

Automatic altibase startup during OS booting in Solaris

Overview

This document describes how to write a script that automatically starts up the Altibase server when booting in Sun Solaris.

How to automatically startup Altibase

Solaris provides an rc script that is related to the run level. These scripts reside in the /sbin directory and are symlinked to the rc scripts in the /etc directory.

The /sbin/rc# scripts exist under the /etc/rc#.d directory with matching names, which contains scripts to start and stop system processes for run levels.

File names in this directory start with K and S, K scripts are used to kill processes, and S scripts are used to start processes. These files are run in alphanumeric order.

In the /etc/init.d directory there are actual run control files that start or kill processes, which are hard-linked to the etc/rc#.d directory.

Steps

STEP 1

Create the /etc/alti-conf.d/alti.conf file. In this file, variables necessary for automatic operation are defined and set. The contents of this file are as follows.

```
ALTIBASE_HOME=/home/altibase/altibase_home ; export ALTIBASE_HOME
PATH=$ALTIBASE_HOME/bin:/usr/bin:/sbin ; export PATH
ALTIBASE_OWNER=altibase
START_ALTIBASE=1
```

If the user does not want to run the file automatically, set the value of START_ALTIBASE to 0. And when ALTIBASE_OWNER or ALTIBASE_HOME is changed, the value in this file must be modified.

© Altibase Corp.

STEP2

Create the /etc/init.d/alti_start file. In this script, it is a script that actually starts up the DBMS by using the Altibase startup command.

```
#!/sbin/sh

if [ -f /etc/alti-conf.d/alti.conf ] ; then
    . /etc/alti-conf.d/alti.conf
Fi

ADMIN="${ALTIBASE_HOME}/bin/isql -s 127.0.0.1 -u sys -p manager -sysdba"*

${ADMIN} <<EOF{*}

startup
quit
EOF
```

STEP3

Create the /etc/init.d/alti_stop file.In this script, it is a script that actually stops the DBMS by using the Altibase command.

```
#!/sbin/sh

if [ -f /etc/alti-conf.d/alti.conf ] ; then
    . /etc/alti-conf.d/alti.conf
fi

ADMIN="${ALTIBASE_HOME}/bin/isql -s 127.0.0.1 -u sys -p manager -sysdba"

${ADMIN} <<EOF{*}

ALTER SYSTEM SET CHECKPOINT_BULK_WRITE_PAGE_COUNT = 0;
ALTER SYSTEM SET CHECKPOINT_BULK_WRITE_SLEEP_SEC  = 0;
ALTER SYSTEM SET CHECKPOINT_BULK_WRITE_SLEEP_USEC = 0;

shutdown immediate
quit
EOF
```

STEP4

Create the /etc/init.d/altibase file.

This file is actually the file that the startup script or stop script will create a symbolic link later on. The contents of this file are as follows.

```
#!/sbin/sh
#
# Copyright (c) 1997, 2001 by Sun Microsystems, Inc.
# All rights reserved.
#
#ident "@(#)altibase 1.0 04/08/17"

case $1 in
'start')
```

© Altibase Corp.

```
# source the system configuration variables
if [ -f /etc/alti-conf.d/alti.conf ] ; then
    . /etc/alti-conf.d/alti.conf
else
echo "ERROR: /etc/alti-conf.d/alti.conf defaults file MISSING"
fi

# Check to see if this script is allowed to run...
if [ "$START_ALTIBASE" != 1 ]; then
    exit 2
else
    # Execute the commands to start your subsystem
    su - $ALTIBASE_OWNER -c "/etc/init.d/alti_start"
fi
;;

'stop')
# source the system configuration variables
if [ -f /etc/alti-conf.d/alti.conf ] ; then
    . /etc/alti-conf.d/alti.conf
else
    echo "ERROR: /etc/alti-conf.d/alti.conf defaults file MISSING"
fi

# Check to see if this script is allowed to run...
if [ "$START_ALTIBASE" != 1 ]; then
    exit 2
else
    su - $ALTIBASE_OWNER -c "/etc/init.d/alti_stop"
    # Execute the commands to stop your subsystem
fi
;;
*)

{*}echo "usage: $0

Unknown macro: {start¦stop}
"*

exit 1
;;
esac
exit 0
```

STEP5

Create a Hard Link of Startup Script and Shutdown Script in /etc/rc3.d Directory.

```
# cd /etc/rc3.d
# ln /etc/init.d/altibase S955altibase
```

STEP6

Set the execution authority so that each script can be executed normally.

```
# cd /etc/rc3.d
# chmod 755 S955altibase
# cd /etc/init.d
# chmod 755 *alti*
```

© Altibase Corp.

STEP7

Test to see if it operates normally. At this time, the test should be performed under the root account.

```
# /etc/init.d/altibase <start:stop>
```

© Altibase Corp.