



THE BEST-RUN BUSINESSES RUN SAP

How to Run the Adapter Engine to run automatic in an Unix



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1. How to Run the Adapter Engine automatically in an UNIX environment

1.1. Document Information

XI Area: Adapter Engine

Release: XI 2.0

Keywords: Adapter Engine, Linux / UNIX, user variables

1.2. Problem Description

How to configure automatic start/stop of Adapter Engine in an UNIX environment using instance start/stop scripts.

2. Setting **ADAPTER_HOME** variable of the user **<sid>adm**

```
<hostname>: <sid>adm> pwd
/home/<sid>adm
<hostname>: <sid>adm> ls -la
.
.
-rw-r--r--  1 <sid>adm  sapsys    7433 2004-07-22 14:54 .sapenv_<hostname>.csh
-rw-r--r--  1 <sid>adm  sapsys    6969 2004-07-22 14:57 .sapenv_<hostname>.sh
.
.
```

2.1. setting for CSH (Cshell)

Including the command below in **.sapenv_<hostname>.csh**

```
setenv ADAPTER_HOME /sapmnt/<SID>/global/tech_adapter
```

2.2. setting for BASH

Including the command below in **.sapenv_<hostname>.sh**

```
ADAPTER_HOME=/sapmnt/<SID>/global/tech_adapter; export ADAPTER_HOME
```

3. Configuring **startsap** to start Adapter Engine.

3.1. Add the command in bold in the **startsap** script.

```
<hostname>: <sid>adm> pwd
/sapmnt/<SID>/global/tech_adapter
```

add the call in the script /sapmnt/<SID>/exe



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```
<hostname>: <sid>adm> pwd
/sapmnt/<SID>/exe

<hostname>: <sid>adm> ls -l
-rwxr-xr-x  1 <sid>adm  sapsys    17678 2004-07-22 14:09 startsap

<hostname>: <sid>adm> vi startsap
.
.
printf "\nStarting SAP Instance \n" | tee -a $LOGFILE
echo "-----" | tee -a $LOGFILE
echo " Startup-Log is written to $LOGFILE"
$SAPSTART pf=$PROFILE_DIR/$START_PROFILE >> $LOGFILE 2>&1
returncode=$?

case $returncode in
  0) echo " Instance on host $LOCAL_HOST started" | tee -a $LOGFILE
      /usr/sap/<SID>/SYS/global/tech_adapter/run_adapter.sh start;;
  1) echo " Instance already running" | tee -a $LOGFILE;;
  *) echo " Startup of Instance failed" | tee -a $LOGFILE
      printf " See $LOGFILE for details\n\n"
      exit 5;;
esac
}
.
.
.
```

4. Configuring **stopsap** to stop the Adapter Engine

4.1. Add the command in bold in the **stopsap**

```
<hostname>: <sid>adm> vi stopsap
.
.
printf "\nStopping the SAP $SAPSYSTEMNAME Processes\n" | tee -a $LOGFILE
echo "-----" | tee -a $LOGFILE
echo " Shutdown-Log is written to $LOGFILE"
if [ -f /usr/sap/$SAPSYSTEMNAME/$INSTANCE/work/kill.sap ]; then
  eval sh /usr/sap/$SAPSYSTEMNAME/$INSTANCE/work/kill.sap >> $LOGFILE 2>&1
  returncode=$?

  case $returncode in
    0) echo " Instance on host $LOCAL_HOST stopped" | tee -a $LOGFILE
        /usr/sap/<SID>/SYS/global/tech_adapter/run_adapter.sh stop
        printf " Waiting for cleanup of resources....." | tee -a $LOGFILE
        SAP_PID=`awk '{print $1}' /usr/sap/$SAPSYSTEMNAME/$INSTANCE/work/sapstart.sem`
        SAP_SHM=`awk '{print $2}' /usr/sap/$SAPSYSTEMNAME/$INSTANCE/work/sapstart.sem`
        case `uname` in
          Linux*)
```



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```
    ps_command="ps ax"
    ;;
*)
    ps_command="ps -e"
    ;;
esac
while $ps_command | awk '{print $1}' | grep "^$SAP_PID$" >/dev/null || \
    ipcs |awk '/^m / {print $2}' | grep "^$SAP_SHM$" >/dev/null; do
    printf "."
    sleep 2
done
echo "" | tee -a $LOGFILE;;
*) echo " Shutdown of instance failed" | tee -a $LOGFILE
    exit 7;;
esac
else
    echo " Instance $INSTANCE was not running!" | tee -a $LOGFILE
fi
}
```

5. Credits

Ricardo Di Stefano

Netweaver / Sap XI - Cross-Application consultant

SAP Brasil

Av. das Nações Unidas, 11541 - 16º andar

São Paulo - SP - 04578-000

T +5511 5503-2400

F +5511 5503-2316

E ricardo.stefano@sap.com

www.sap.com/brazil/consultoria