

IBM DB2 V9.5 Migration Steps for AIX servers

Migration Steps	Detail
Pre requisites	<p>AIX Version 5.3</p> <ul style="list-style-type: none"> * 64-bit AIX kernel is required * AIX 5.3 Technology Level (TL) 6 and Service Pack (SP) 2 plus APAR IZ03063 * Minimum C++ runtime level requires the xlc.rte 9.0.0.1 and xlc.aix50.rte 9.0.0.1 filesets. These filesets are included in the August 2007 IBM® C++ Runtime Environment Components for AIX package.
Install steps	<ol style="list-style-type: none"> 1. Ensure there is 2~3 GB space on /opt and 100 MB in /tmp 2. Logon to root 3. Install DB2 <ul style="list-style-type: none"> • Get an X window screen*1. • Navigate to the install file location • Issue ./db2setup and follow the steps. Do not create instance. DB2 by default installs on /opt/IBM/db2/V9.5 • Copy the db2ese_c.lic file from the /db2/license directory on CPU Option Activation CD to the db2 home directory • Issue db2licm -a db2ese_c.lic • /opt/IBM/db2/V9.5/adm]# ./db2licm -a /tmp_install/db2_activation/db2/license/db2ese_c.lic
Pre-Migration steps	<ol style="list-style-type: none"> 1. Verify that the databases are ready for migration <ul style="list-style-type: none"> • Log on using db2 instance of the database you are going to migrate. • Stop the instance • Go to <\$DB2DIR>/bin/db2ckmig from the V9.5 install location • Issue db2ckmig <dbname> -l db2ckmig.log 2. Offline backup of the database after a quiesce 3. Backup the configuration info 4. Ensure the system tablespace and logs have enough space 5. Set diaglevel to 4 6. Db2licd -end for each instance 7. Db2 force application all 8. Db2 terminate 9. Prune history file (this speeds up migration) 10. Db2stop 11. Stop DAS 12. Execute \$DB2DIR/bin/db2fm -i iname -D (iname = dasusr1) 13. Comment out the db2fmd process on the inittab and kill the db2fmd 14. ipclean
Migration steps	<ol style="list-style-type: none"> 1. Migrate the instance <ul style="list-style-type: none"> • Login as root • Ensure there is /tmp has 20 MB free space • Ensure db2 is stopped. • From db29.5 location - <\$db2dir>/instance/db2imigr - u <fenced id> <instance name> • Su to db2instance

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	<ul style="list-style-type: none"> • Issue db2level to check whether the version shown is correct • Issue db2start <ol style="list-style-type: none"> 4. Migrate DAS <ul style="list-style-type: none"> • Logon to root • From <\$db2dir>/instance/dasmigr • Run db2tdbmgr to migrate the toolsdb 5. Migrate databases <ul style="list-style-type: none"> • Restart the instance with a fresh db2diag.log • Ensure the instance is running • Login as instance • Ensure all the databases are cataloged • Ensure there is enough space in the log and archive log directory • Issue DB2 MIGRATE DB <database name>
Post migration steps	<ol style="list-style-type: none"> 1. Installing Fix Pack 3b <ul style="list-style-type: none"> • Stop all db2instances • Stop DAS • Db2licd -end on each instance • Ipclean • Login as root • Execute /usr/sbin/slibclean • Execute \$DB2DIR/bin/db2fm -i iname -D (<i>iname = dasusr1</i>) • Go to the untar fixpak file location • Execute installFixPack*² - <i>give the install path location</i> 2. Start DB2 3. Logon to each instance and execute db2updv95 -d <dbname> 4. Connect to each database on each instance and bind the following : <ul style="list-style-type: none"> • db2 bind @db2cli.lst BLOCKING ALL GRANT PUBLIC • db2 bind @db2ubind.lst BLOCKING ALL GRANT PUBLIC • db2 bind db2schema.bnd BLOCKING ALL GRANT PUBLIC 5. Activate all databases and watch the db2diag.log 6. Migrate explain tables – db2exmig -d <dbname> -e schema_name 7. Update stats on system catalogs 8. Backup the databases(optional) 9. Rest the db2diaglevel to 2 10. Restart DB2 with a new db2diag.log 11. Uncomment the db2fmd process inittab. Ensure you have the right db2fmd path on the inittab entry.

*1 You can use either Cgywin or Hummingbird . for Cgywin, execute startxwin.bat on windows machine. Type xhost + . On the AIX type export DISPLAY=<windows ip>:0.0

*2 installFixPack - As part of a fix pack installation, binding of the database utilities (IMPORT, EXPORT, REORG, the Command Line Processor) and the DB2 CLI bind files, DB2 instances are updated automatically. If you want to install fixpak to selective instances, you need to use db2_install and specify a new path for the fixpak and then manually use db2iupdt