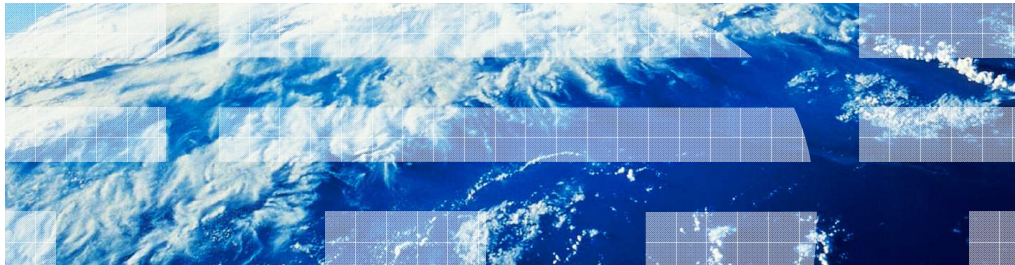IBM

IBM Tivoli Directory Server Version 6.2

Native installation on AIX

Welcome to this IBM Education Assistant module on IBM Tivoli® Directory Server version 6.2. Following this presentation, you should know how to perform a native installation for version 6.2, which includes DB2®, GSKit, Tivoli Directory Server client, server, and the Web administration tool.

Tivoli Directory Server V6.2 part numbers

CR7RTML: IBM Tivoli Directory Server 6.2 for AIX (.tar and .iso files)

File name / Internal file name	File description
C1N5VML.tar (tds62-aix-ppc64-base.tar)	IBM Tivoli Directory Server tar file for AIX. Includes full server, proxy server, client.
C1N5XML.tar (tds62-aix-ppc64-db2.tar)	IBM Tivoli Directory Server tar file for AIX. Includes DB2 v 9.5 FixPack 1.
C1N5YML.tar (tds62-aix-ppc64-eWas.tar)	IBM Tivoli Directory Server tar file for AIX. Includes Embedded WebSphere Application Server 6.1.0.13.
C1N5ZML.tar (tds62-aix-ppc64-gskit.tar)	IBM Tivoli Directory Server tar file for AIX. Includes Global Security Kit (GSKit) 7.0.4.14.

If you are downloading the ISMP or native installation of IBM Tivoli Directory Server version 6.2 from Passport Advantage *http://www-142.ibm.com/software/sw-lotus/services/cwepassport.nsf/wdocs/passporthome* verify that you have downloaded the appropriate packages:

http://www-01.ibm.com/support/docview.wss?rs=767&uid=swg24020376

C1N62ML.iso (tds62-aix-ppc64.iso)	IBM Tivoli Directory Server iso file for AIX. Includes full server, proxy server, client, DB2 v 9.5 FixPack 1, Embedded WebSphere Application Server 6.1.0.13, GSKit 7.0.4.14, IBM Tivoli Directory Integrator 6.1.1, White Pages.

.tar files   *.iso image*

2   Native installation on AIX   © 2010 IBM Corporation

This presentation focuses on AIX 6.1 and the part numbers for AIX.

The native installation files are located in the left column of the table. You can use these tar files for either the ISMP installation or the native installation.

On the right is the ISO image.

Begin the installation by grabbing either the individual tar files or the ISO image.

Installation and configuration using ISMP and GUI tools

Download the packages and extract them in the same
directory using the tar –xf command

```
root@l2aix /home/anntest/installImages/62/AIX
==> ls
C1N5VML.tar  C1N5XML.tar  C1N5YML.tar  C1N5ZML.tar  C1N60ML.tar  C1N61ML.tar
root@l2aix /home/anntest/installImages/62/AIX
==> tar -xf C1N5VML.tar
root@l2aix /home/anntest/installImages/62/AIX
==> tar -xf C1N5XML.tar
```

After you extract the files, notice that the tdsV6.2 directory
is now created

```
root@l2aix /home/anntest/installImages/62/AIX
==> ls
C1N5VML.tar  C1N5YML.tar  C1N60ML.tar  tdsV6.2
C1N5XML.tar  C1N5ZML.tar  C1N61ML.tar
```
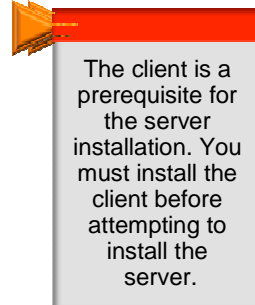◀ *tdsV6.2 directory*

3   Native installation on AIX   © 2010 IBM Corporation

After you download the tar packages, extract them into the same directory using the tar-xf
command. A directory is created, called tdsV6.2.

Remember to extract all of the tar files in the same directory if you are using the download
option. Extracting them in different directories can cause problems in the future.

Installation and configuration using native methods

- Make sure prerequisites are met
  http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/topic/com.ibm.IBMDS.doc/sysreq.htm

- Review the Installation and Configuration Guide for
  operating system-specific considerations:

  http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/topic/com.ibm.IBMDS.doc/install09.htm#consider

- Install features in the following order:
  – DB2
  – GSKIT
  – Tivoli Directory Server Client
  – Tivoli Directory Server
  – Tivoli Directory Server Web administration tool
  – ***Note: There is no native installation method for installing TDI*

The client is a prerequisite for the server installation. You must install the client before attempting to install the server.

For installation and configuration using native methods, check any operating system-specific prerequisites and review any configuration considerations before performing the installation.

For the native process, the installation order is DB2, GSKit, and then the Tivoli Directory Server packages. Each package has its own requisites. If you manually install using installp, there are additional considerations.

Note that the client is a prerequisite for the server installation. You must install the client before attempting to install the server.

Native installation: DB2 (1 of 3)

Change to the db2 directory (../tdsV6.2/db2) where you extracted the tar files and launch the db2 installer

```
root@l2aix /home/anntest/installImages/62/AIX/tdsV6.2
==> ls
appsrv       gskit        quickstart   tdsLangpack  whitepages
db2          installp     tdi          tdsfiles
entitlement  license      tds          tools
root@l2aix /home/anntest/installImages/62/AIX/tdsV6.2
==> cd db2
root@l2aix /home/anntest/installImages/62/AIX/tdsV6.2/db2
==> ls
db2              db2prereqcheck   installFixPack   readmefirst.htm
db2_deinstall    db2setup         nlpack           readmefirst.txt
db2_install      doc              readmefirst
root@l2aix /home/anntest/installImages/62/AIX/tdsV6.2/db2
==> ./db2_install
```

./db2_install

From the tdsV6.2/db2 directory, launch the DB2 installer by issuing a ./db2_install command.

Native installation: DB2 (2 of 3)

Enter the directory for the installation and select the ESE keyword

```
==> ./db2_install

Default directory for installation of products - /opt/IBM/db2/V9.5
****************************************************************
Do you want to choose a different directory to install [yes/no] ?
no


Specify one of the following keywords to install DB2 products.
  ESE
  CLIENT
  RTCL

Enter "help" to redisplay product names.
Enter "quit" to exit.
****************************************************************
ESE
```
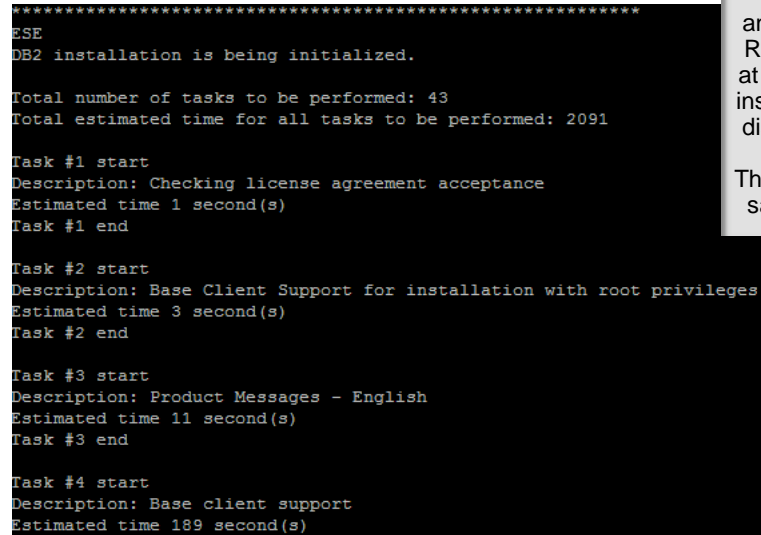
6   Native installation on AIX   © 2010 IBM Corporation

You are prompted to answer some questions. To select the default installation path, which is /opt/IBM/db2/V9.5, answer "no" to the first question. Otherwise, answer "yes" and provide a path for the db2 installation.

Select the DB2 product to install, specify ESE for the DB2 Enterprise Server Edition and press Enter.

Native installation: DB2 (3 of 3)

```
**********************************************************
ESE
DB2 installation is being initialized.

Total number of tasks to be performed: 43
Total estimated time for all tasks to be performed: 2091

Task #1 start
Description: Checking license agreement acceptance
Estimated time 1 second(s)
Task #1 end

Task #2 start
Description: Base Client Support for installation with root privileges
Estimated time 3 second(s)
Task #2 end

Task #3 start
Description: Product Messages - English
Estimated time 11 second(s)
Task #3 end

Task #4 start
Description: Base client support
Estimated time 189 second(s)
```
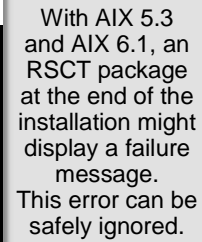
With AIX 5.3 and AIX 6.1, an RSCT package at the end of the installation might display a failure message. This error can be safely ignored.

As the DB2 installation progresses, you see the estimated number of tasks to be performed and a time estimate.

With AIX 5.3 and AIX 6.1, an RSCT package at the end of the installation might give you a failure message. This error can be safely ignored.

If you want to resolve the issue, you can add the RSCT packages to your installation from the AIX install CDs.

Native installation: DB2 installation complete

```
Task #43 start
Description: Setting default global profile registry variables
Estimated time 1 second(s)
Task #43 end

Task #44 start
Description: Initializing instance list
Estimated time 5 second(s)
Task #44 end

Task #45 start
Description: Updating global profile registry
Estimated time 3 second(s)
Task #45 end

The execution completed successfully.

For more information see the DB2 installation log at
"/tmp/db2_install.log.303320".
```

This slide shows a successful execution with no error messages. If any errors are encountered, review the installation log for more information.

Native installation: DB2 installation confirmation

==> /usr/local/bin/db2ls

Install Path	Level	Fix Pack	Special Install Number	Install Date	Installer	UID
/opt/IBM/db2/V9.5	9.5.0.1	1		Tue Apr 14 10:34:38 2009 CDT		

Native installation on AIX   © 2010 IBM Corporation

To confirm that DB2 has been installed, use the new command added in DB2 9.1, db2ls, which resides in the usr local bin directory on AIX. Issuing that command reveals the installation path, level, fix pack version, and other information.

This command also reveals whether multiple versions of DB2 9.5 are present on your system. If there are multiple versions and you choose to install a patch for DB2, you must install the patch separately for each copy of DB2.

Native installation: GSKit (1 of 4)

The DB2 installation bundles the gskjt.rte and gskta.rte packages. The Tivoli Directory Server installation provides a newer version of the gskta.rte (contained in the gsk7bas32 subdirectory), gskjs.rte, and gsksa.rte.

Begin the native installation of GSKit by installing the gskjs.rte and gsksa.rte first, and then proceed to update the gskta.rte package.

Change to the gskit subdirectory where you extracted the installation media.

==> **cd tdsV6.2/gskit**

```
root@l2aix /home/anntest/installImages/62/AIX/tdsV6.2/gskit
==> ls
.toc      gsk7bas32  gskjs.rte  gsksa.rte
```

10   Native installation on AIX   © 2010 IBM Corporation

Next is the GSKit installation. Because DB2 was installed first, the gskjt.rte and gskta.rte packages are already in place. Tivoli Directory Server provides a newer version of gskta, gskjs, and the gsksa.rte packages.

Perform a native installation of the gskjs and gsksa.rte packages. Use the same directory the tar files were extracted to, tdsV6.2, and go into the GSKit subdirectory.

Install the gskjs.rte and gsksa.rte packages first and then CD to the gsk7bas32 subdirectory and install the gskta.rte package.

Native installation: GSKit (2 of 4)

You can use either SMIT or installp utilities. In this example the installp command is used to install the gskit packages as follows:

==> installp -acgXd . gskjs.rte

==> installp -acgXd . gsksa.rte
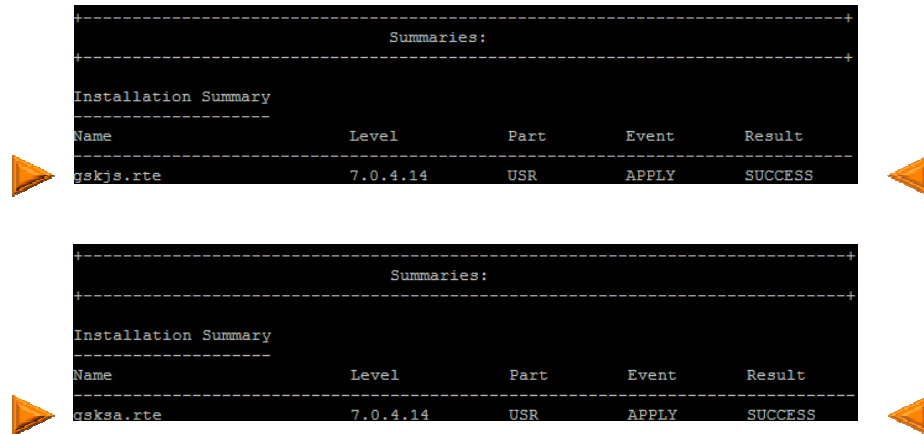
where
-a stands for apply
-c stands for commit
-g automatically installs or commits any requisite software product
-X expands the file system if necessary
-d stands for device and specifies where the installation media
   can be found

Native installation on AIX © 2010 IBM Corporation

You can use either the SMIT or installp utilities to install these packages. For this demonstration, use installp.

Specify installp -acgXd . to indicate the package is in the local directory, and the file names.

Native installation: GSKit (3 of 4)

When the installp command completes, you see a successful result in the installation summary

```
+-----------------------------------------------------------------------+
                        Summaries:
+-----------------------------------------------------------------------+

Installation Summary
--------------------
Name                    Level           Part        Event       Result
-----------------------------------------------------------------------
gskjs.rte               7.0.4.14        USR         APPLY       SUCCESS
```

```
+-----------------------------------------------------------------------+
                        Summaries:
+-----------------------------------------------------------------------+

Installation Summary
--------------------
Name                    Level           Part        Event       Result
-----------------------------------------------------------------------
gsksa.rte               7.0.4.14        USR         APPLY       SUCCESS
```

When installp completes, a successful result appears in the installation summary. The package name and its current level are also displayed.

Native installation: GSKit (4 of 4)

Next, change to the gsk7bas32 subdirectory (../tdsV6.2/gskit/gsk7bas32)

```
root@l2aix /home/anntest/installImages/62/AIX/tdsV6.2/gskit/gsk7bas32
==> ls
.toc       gskta.rte
```

Issue the installp command to install the gskta.rte package.

    ==> installp -acgXd . gskta.rte

```
+-----------------------------------------------------------------------+
                              Summaries:
+-----------------------------------------------------------------------+

Installation Summary
--------------------
Name                    Level         Part       Event       Result
-----------------------------------------------------------------------
gskta.rte               7.0.4.14      USR        APPLY       SUCCESS
```

    Native installation on AIX   © 2010 IBM Corporation

Next, CD to the subdirectory, gsk7bas32, to update the gskta.rte package previously installed by DB2. In this example, the installp command is being used again with the same flags and the specification to update the gskta.rte.

Native installation: GSKit installation confirmation

```
==> lslpp -l | grep gsk
gskjs.rte     7.0.4.14  COMMITTED  AIX Certificate and SSL Java
gskjt.rte     7.0.3.18  COMMITTED  AIX Certificate and SSL Java
gsksa.rte     7.0.4.14  COMMITTED  AIX Certificate and SSL Base
gskta.rte     7.0.4.14  COMMITTED  AIX Certificate and SSL Base
```

Native installation on AIX   © 2010 IBM Corporation

Entering an lslpp -l | grep gsk allows you to view all four packages and the one you updated.

Native installation: Tivoli Directory Server (1 of 7)

The file for the native installation is located in the tdsfiles directory (../tdsV6.2/tdsfiles).

```
root@l2aix /home/anntest/installImages/62/AIX/tdsV6.2/tdsfiles
==> ls
.toc      idsldap.msg62.en_US
idsldap.clt32bit62  idsldap.srv64bit62
idsldap.clt64bit62  idsldap.srv_max_cryptobase64bit62
idsldap.clt_max_crypto32bit62        idsldap.srvbase64bit62
idsldap.clt_max_crypto64bit62        idsldap.srvproxy64bit62
idsldap.cltbase62  idsldap.webadmin62
idsldap.cltjava62  idsldap.webadmin_max_crypto62
```

Native installation on AIX   © 2010 IBM Corporation

Next, perform a native installation of Tivoli Directory Server. A command line installation provides the greatest amount of control. If you are just installing the client, install the client packages. For this demonstration, all the packages are selected.

Native installation: Tivoli Directory Server (2 of 7)

The native installation provides these items:

- Installs the file sets for the client, server, Web Admin, and proxy (You must be entitled for Proxy Support)

- Creates the idsldap group and user for internal product use, if it does not already exist

You must
be entitled for
the Proxy server
to use and
receive support
for that
feature.
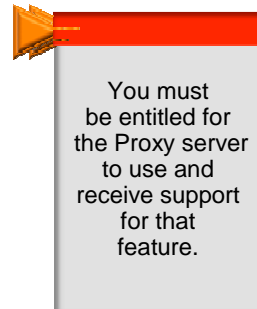
The native installation installs the Tivoli Directory Server packages for the client, server, Web Administration tool, and the proxy server.
You must be entitled for the proxy server to use and receive support for that feature.

Native installation: Tivoli Directory Server (3 of 7)

In this example, SMIT is used to install the Tivoli Directory Server packages:

==> smit install_all

Enter a period "." as the input device to specify the current directory
and press Enter

```
                    Install and Update from ALL Available Software

Type or select a value for the entry field.
Press Enter AFTER making all desired changes.

                                                    [Entry Fields]
* INPUT device / directory for software            [.]
```

Using SMIT to install, issue the command line **smit install_all** from inside the directory where the packages reside. Specify a period as the input device to install from the current directory.

Native installation: Tivoli Directory Server (4 of 7)

Use F4 to list the packages and use F7 to select each package.

After you select the packages, press Enter

```
                  Install and Update from ALL Available Software

Type or sel+--------------------------------------------------------------------+
Press Enter|                      SOFTWARE to install                        |
           |                                                                 |
           | Move cursor to desired item and press F7. Use arrow keys to scroll. |
* INPUT dev|    ONE OR MORE items can be selected.                           |
* SOFTWARE | Press Enter AFTER making all selections.                        |     +
  PREVIEW o|                                                                 |     +
  COMMIT so| [MORE...20]                                                     |     +
  SAVE repl| > idsldap.msg                                            ALL |     +
  AUTOMATIC|   + 6.2.0.0  Directory Server - Messages - U.S. English (en)   |     +
  EXTEND fi|                                                                 |     +
  OVERWRITE| > idsldap.srv64bit62                                     ALL |     +
  VERIFY in|   + 6.2.0.0  Directory Server - 64 bit Server                 |     +
  DETAILED |                                                                 |     +
  Process m| > idsldap.srv_max_cryptobase64bit62                      ALL |     +
  ACCEPT ne|   + 6.2.0.0  Directory Server - base Server (SSL)             |     +
  Preview n|                                                                 |     +
           | > idsldap.srvbase64bit62                                 ALL |
  WPAR Mana|   + 6.2.0.0  Directory Server - Base Server                   |
```

Next, select the correct software. Use F4 to generate a software list. Then use F7 to select all the packages.

Be sure "preview only" is set to "no" and press Enter.

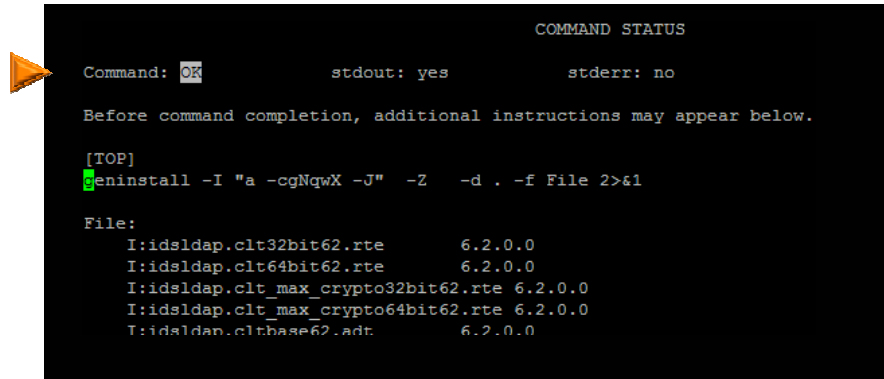You are prompted to confirm that you want to proceed.
  Press Enter to continue.

```
|                          ARE YOU SURE?                          |
|                                                                 |
| Continuing may delete information you may want                  |
| to keep.  This is your last chance to stop                      |
| before continuing.                                              |
|     Press Enter to continue.                                    |
|     Press Cancel to return to the application.                  |
|                                                                 |
| F1=Help              F2=Refresh            F3=Cancel             |
| F8=Image             F10=Exit              Enter=Do             |
```

Native installation on AIX   © 2010 IBM Corporation

Press Enter again to confirm.

Native installation: Tivoli Directory Server (7 of 7)

When SMIT finishes, the command displays OK. Enter F10 to EXIT SMIT

```
                                    COMMAND STATUS

   Command: OK            stdout: yes          stderr: no

   Before command completion, additional instructions may appear below.

   [TOP]
   geninstall -I "a -cgNqwX -J"  -Z   -d . -f File 2>&1

   File:
        I:idsldap.clt32bit62.rte         6.2.0.0
        I:idsldap.clt64bit62.rte         6.2.0.0
        I:idsldap.clt_max_crypto32bit62.rte 6.2.0.0
        I:idsldap.clt_max_crypto64bit62.rte 6.2.0.0
        I:idsldap.cltbase62.adt          6.2.0.0
```

Native installation on AIX

After the SMIT finishes, the command status displays OK. If there is an error message, check the installation logs to identify the problem. Here, everything has installed successfully, and all packages and package levels have been listed. To ensure a successful installation, you can review the SMIT log.

Native installation: Confirm installed file sets

```
==> lslpp -l | grep idsldap
idsldap.clt32bit62.rte      6.2.0.0  COMMITTED  Directory Server - 32 bit
idsldap.clt64bit62.rte      6.2.0.0  COMMITTED  Directory Server - 64 bit
idsldap.clt_max_crypto32bit62.rte
idsldap.clt_max_crypto64bit62.rte
idsldap.cltbase62.adt       6.2.0.0  COMMITTED  Directory Server - Base Client
idsldap.cltbase62.rte       6.2.0.0  COMMITTED  Directory Server - Base Client
idsldap.cltjava62.rte       6.2.0.0  COMMITTED  Directory Server - Java Client
idsldap.msg62.en_US         6.2.0.0  COMMITTED  Directory Server - Messages -
idsldap.srv64bit62.rte      6.2.0.0  COMMITTED  Directory Server - 64 bit
idsldap.srv_max_cryptobase64bit62.rte
idsldap.srvbase64bit62.rte
idsldap.srvproxy64bit62.rte
idsldap.webadmin62.rte      6.2.0.0  COMMITTED  Directory Server - Web
idsldap.webadmin_max_crypto62.rte
idsldap.clt32bit62.rte      6.2.0.0  COMMITTED  Directory Server - 32 bit
idsldap.clt64bit62.rte      6.2.0.0  COMMITTED  Directory Server - 64 bit
idsldap.cltbase62.rte       6.2.0.0  COMMITTED  Directory Server - Base Client
idsldap.srvbase64bit62.rte
idsldap.srvproxy64bit62.rte
```

22   Native installation on AIX   © 2010 IBM Corporation

A simple lslpp -l | grep idsldap confirms that all the packages are currently installed for Tivoli Directory Server. Again, if you have multiple versions installed, you see it here.

Native installation: Entitlement package

```
root@l2aix /home/anntest/installImages/62/AIX/tdsV6.2
==> ls
appsrv    gskit    quickstart  tdsLangpack  whitepages
db2       installp  tdi         tdsfiles
entitlement license   tds         tools
==> cd entitlement
==> ls
.toc          entitlement.txt  idsldap.ent62
==> installp -acgXd . idsldap.ent62
+-----------------------------------------------------------------------+
                    Summaries:
+-----------------------------------------------------------------------+

Installation Summary
--------------------
Name              Level      Part    Event     Result
-------------------------------------------------------------------------------
idsldap.ent62.rte    6.2.0.0     USR     APPLY     SUCCESS
```

23   Native installation on AIX   © 2010 IBM Corporation

To install the entitlement package, go into the same tdsV6.2 directory where the tar files were extracted, and go into the entitlement subdirectory. The entitlement package, idsldap.ent62 is installed using the same installp command with the same flags as used previously. Again, upon completion, a results summary is displayed.

```
==> lslpp -l | grep idsldap
  idsldap.clt32bit62.rte      6.2.0.3  COMMITTED  Directory Server - 32 bit
  idsldap.clt64bit62.rte      6.2.0.3  COMMITTED  Directory Server - 64 bit
  idsldap.clt_max_crypto32bit62.rte
  idsldap.clt_max_crypto64bit62.rte
  idsldap.cltbase62.adt       6.2.0.3  COMMITTED  Directory Server - Base Client
  idsldap.cltbase62.rte       6.2.0.3  COMMITTED  Directory Server - Base Client
  idsldap.cltjava62.rte       6.2.0.3  COMMITTED  Directory Server - Java Client
  idsldap.ent62.rte           6.2.0.0  COMMITTED  Directory Server - Entitlement     ◀ Entitlement
  idsldap.msg62.en_US         6.2.0.3  COMMITTED  Directory Server - Messages -
  idsldap.srv64bit62.rte      6.2.0.3  COMMITTED  Directory Server - 64 bit
  idsldap.srv_max_cryptobase64bit62.rte
  idsldap.srvbase64bit62.rte
  idsldap.srvproxy64bit62.rte
  idsldap.webadmin62.rte      6.2.0.3  COMMITTED  Directory Server - Web
  idsldap.webadmin_max_crypto62.rte
  idsldap.clt32bit62.rte      6.2.0.3  COMMITTED  Directory Server - 32 bit
  idsldap.clt64bit62.rte      6.2.0.3  COMMITTED  Directory Server - 64 bit
  idsldap.cltbase62.rte       6.2.0.3  COMMITTED  Directory Server - Base Client
  idsldap.srvbase64bit62.rte
  idsldap.srvproxy64bit62.rte
```

24   Native installation on AIX   © 2010 IBM Corporation

Issue the same lslpp command again to see the listing showing that the entitlement package now installed.

Native installation: Install embedded WebSphere Application Server (1 of 2)

Change to the appsrv directory where you extracted the tar files.
Then, issue this command:

install.sh -installRoot *EWAS_installpath*

where *EWAS_installPath* is the directory where you are installing Embedded WebSphere Application Server

==> ./install.sh. -installRoot /opt/IBM/ldap/V6.2/appsrv

```
==> cd appsrv
root@l2aix /home/anntest/installImages/62/AIX/tdsV6.2/appsrv
==> ls
COPYRIGHT.TXT      derby           installableApps   optionalLibraries  systemApps
Scheduler          etc             java              plugins            universalDriv
bin                features        lib               profileTemplates   util
configuration      install.sh      logs              properties
root@l2aix /home/anntest/installImages/62/AIX/tdsV6.2/appsrv
==> ./install.sh -installRoot /opt/IBM/ldap/V6.2/appsrv
```

Native installation on AIX   © 2010 IBM Corporation

To proceed with the native installation for the embedded WebSphere provided with the installation, CD to the appsrv directory where the tar files were extracted: tdsV6.2/appsrv. Issue the command line install.sh. then specify – installRoot and specify the path where the embedded WebSphere is to be installed. Typically, the installation path is /opt/IBM/ldap/V6.2/appsrv.

Native installation: Install embedded WebSphere Application Server (2 of 2)

After the installation is complete, the Installation complete
message is displayed

```
==> ./install.sh -installRoot /opt/IBM/ldap/V6.2/appsrv

+------------------------------------+
+        WEAS Version 6.1 Install        +
+------------------------------------+

    Validating target directory ...
    Copying files ...
    Setting permissions ...
    Installation complete.
```

Installation complete

Native installation on AIX   © 2010 IBM Corporation

After the installation is complete, check for a success message. Any errors are shown in the installation log.

Next, deploy the WAR file into the embedded WebSphere Application Server (eWAS) so that the Web administrative tool can be used.

Native installation: Deploying the Web administration tool into the embedded WebSphere Application Server (1 of 3)

Deploy the Web administration tool into the embedded WebSphere Application Server

1. Go to the idstools subdirectory of the installation path. (the installation path is the directory where Tivoli Directory Server is installed).
   On AIX : /opt/IBM/ldap/V6.2/idstools

2. Be sure that the deploy_IDSWebApp file is present in the idstools directory.

3. Type the following command on AIX:
    ./deploy_IDSWebApp

Native installation on AIX

Go to the idstools subdirectory of the installation path, /opt/IBM/ldap/V6.2/idstools directory. Make sure that the deploy_IDSWebApp file is present in the idstools directory. Then issue the ./deploy_IDSWebApp command.

If a custom path was used for the installation of eWAS, you must specify the custom installation path when deploying the WAR file. Information about the correct parameters to use can be obtained by issuing a -? command, which displays additional usage information.

Native installation: Deploying the Web administration tool into the embedded WebSphere Application Server (2 of 3)

```
==> cd idstools
root@l2aix /opt/IBM/ldap/V6.2/idstools
==> ls
DSML.zip              bin               idssupport          snmp
IDSWebApp.war         deploy_IDSWebApp  idswmigr
TDSWEBPortDef.props   idsdefinst        nossl
adsynch               idslogmgmt        setLogging.jacl
root@l2aix /opt/IBM/ldap/V6.2/idstools
==> ./deploy_IDSWebApp
```

Native installation on AIX

This slide details the location and how to invoke the deploy_IDSWebApp command.

Native installation: Deploying the Web administration tool into the embedded WebSphere Application Server (3 of 3)

Messages are displayed as the script runs.

When the script is complete, you see these results:
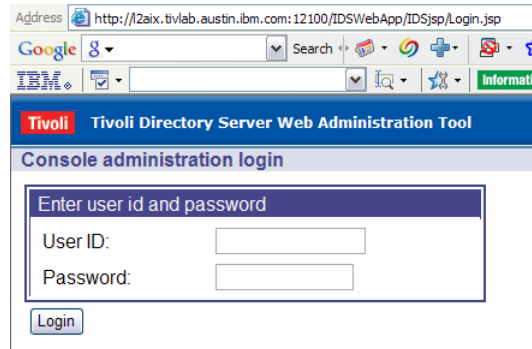
```
/opt/IBM/ldap/V6.2/appsrv/profiles/TDSWebAdminProfile/bin/startServer.sh server1
ADMU0116I: Tool information is being logged in file
           /opt/IBM/ldap/V6.2/appsrv/profiles/TDSWebAdminProfile/logs/server1/startServer.log
ADMU0128I: Starting tool with the TDSWebAdminProfile profile
ADMU3100I: Reading configuration for server: server1
ADMU3200I: Server launched. Waiting for initialization status.
ADMU3000I: Server server1 open for e-business; process id is 417966
```

Native installation on AIX

As the script runs, expect heavy message output. When it finishes, ensure everything has started successfully and that you have a process ID. The Web administrative profile is running and has been successfully deployed.

Native installation: Web administration tool

The application server is installed, and the Web administration tool is deployed into the embedded WebSphere Application Server.

Now you can bring up the Web administrative console and add a managed console server if one is already configured.

Input the URL into your browser to bring up the console administration server. The default login is superadmin with the password *secret*. After you log into the console administration server and the server instance is created and configured, you can add the Tivoli Directory Server instance as a managed console server.

Set product links: idslink utility

Set the links to the V6.2 client and server utilities

```
# cd /opt/IBM/ldap/V6.2/bin
# ls
64                 idsldapdiff       idsrmlink         ldapexop
ibmdirctl          idsldapexop       idsversion        ldapmodify
idsdirctl          idsldapmodify     ldapadd           ldapmodrdn
idsldapadd         idsldapmodrdn     ldapchangepwd     ldapsearch
idsldapchangepwd   idsldapsearch     ldapcompare       ldaptrace
idsldapcompare     idsldaptrace      ldapdelete        tbindmsg
idsldapdelete      idslink           ldapdiff
# ./idslink -g -i -s fullsrv -f
```

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Now use the idslink utility to set the links to the client and server utilities. Issue the command: idslink -g -i –s fullsrv –f to set all the links for all the utilities for both the client and server.

A note about command line utilities

Every command line utility has a question mark flag for additional usage information. The command reference guide has helpful examples.

- Each command line utility
  - has a "-?" option for usage information
  - provides an optional debug flag to generate additional messages to help identify why an error is occurring.

- For additional information about the utilities and to see some examples, refer to the Command Reference Guide:
  http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/topic/com.ibm.IBMDS.doc/commandref.htm

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Every command line utility has a question mark flag for additional usage information. If you need more information, find the command reference guide for some helpful examples.

Also, if you encounter any problems issuing any of the command line utilities, there is a debug flag option that generates additional messages to help identify why a problem is occurring. This is typically -d for the command line utilities. If there is a server start problem, the debug flag is -h. You can then specify a debug mask.

Refer to the Problem Determination Guide and Command Reference Guide for additional information.

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