



## Introduction to IBM Tivoli Directory Server 6.0 – Installation and Configuration Using AIX Native Utilities

Excerpt taken from presentation given on April 10, 2007  
Creating an IBM Tivoli Directory Server instance after performing an installation using AIX native  
utilities

**Support Technical Exchange Web site**  
[http://www-306.ibm.com/software/sysmgmt/products/support/supp\\_tech\\_exch.html](http://www-306.ibm.com/software/sysmgmt/products/support/supp_tech_exch.html)

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## User and Group Setup

**We are now ready to begin our configuration of the ITDS server. Our first step is to configure an OS user and group to own the database instance. I am going to use smitty for this example to show an alternative form of user/group creation.**

### Tasks:

- Create an db2 admin group (nativegr) and add root as a member of that group
- Create an instance owner (nativein) and add user to primary group (nativegr)
- Create a valid password for the user
- Verify the user can login



## Group Creation via smitty

- **To add the group we will again take advantage of smitty:  
#smitty group -> add a group ->**

**In the Add A Group screen fill in group name and add root  
as a member to the group:**

**Making sure that root and idslsap are members of this  
group**

It is important to add root and idslsap to this group.

## Group Creation via smitty

```
ldapaixc1.tivlab.austin.ibm.com - PuTTY
Add a Group
Type or select values in entry fields.
Press Enter AFTER making all desired changes.

+ Group NAME                                [Entry Fields]
ADMINISTRATIVE group?                       [nativeg]
Group ID                                     false          +
USER list                                   []              #
ADMINISTRATOR list                          [root,idsldap] +
Projects                                    []              +

F1=Help      F2=Refresh   F3=Cancel    F4=List
F5=Reset     F6=Command   F7=Edit      F8=Image
F9=Shell     F10=Exit    Enter=Do
```

It is important to add root and idsldap to this group.

## Group Creation via smitty



```
ldapaixc1.tivlab.austin.ibm.com - PuTTY
COMMAND STATUS
Command: Ok          stdout: no          stderr: no
Before command completion, additional instructions may appear below.
█

F1=Help          F2=Refresh        F3=Cancel         F6=Command
F8=Image         F9=Shell          F10=Exit          /=Find
n=Find Next
```

It is important to add root and idslldap to this group.

## User Creation via smitty

```

ldapaixc1.tivlab.austin.ibm.com - PuTTY
Add a User

Type or select values in entry fields.
Press Enter AFTER making all desired changes.

[TOP]
* User NAME          [nativein]
User ID             [] #
ADMINISTRATIVE USER? false +
Primary GROUP      [nativegr] +
Group SET          [] +
ADMINISTRATIVE GROUPS [] +
ROLES              [] +
Another user can SU TO USER? true +
SU GROUPS         [ALL] +
HOME directory     []
Initial PROGRAM    []
User INFORMATION   []
EXPIRATION date (MMDDhhmmyy) [0]
[MORE...38]

F1=Help      F2=Refresh   F3=Cancel    F4=List
F5=Reset     F6=Command   F7=Edit     F8=Image
F9=Shell     F10=Exit    Enter=Do

```

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Smitty user -> add a user ->

Type or select values in entry fields.

Press Enter AFTER making all desired changes.

[TOP]	[Entry Fields]		
* User NAME	[nativein]		
User ID	[]	#	
ADMINISTRATIVE USER?	false		+
Primary GROUP	[nativegr]		+
Group SET	[]	+	
ADMINISTRATIVE GROUPS	[]		+
ROLES	[]	+	
Another user can SU TO USER?	true		+
SU GROUPS	[ALL]		+
HOME directory	[]		
Initial PROGRAM	[]		
User INFORMATION	[]		
EXPIRATION date (MMDDhhmmyy)	[0]		



## Setting the user password via smitty

- In order to configure ITDS our instance owner (nativein) must have a valid password set and the ADMCHG (admin change flag) removed so the user is ready to login with that password.
- 1.) To change the Password -> smitty user -> change a users password -> nativein -> enter the new password
  - 2.) vi /etc/security/passwd -> search for nativein entry and remove the flags=ADMCHG

nativein:

```
password = 6YYm6vOlpNoJk
lastupdate = 1175371345
flags = ADMCHG ← Remove this line
```



## Configuration – idsicrt / idscfgdb

**We now have our User and Group created and we are ready to create our database instance and then configure our database for use with ITDS.**

**To configure the instance we run:**

```
#idsicrt -l nativein -e seedfornativein -p 10389 -s 10636 -a  
3550 -c 3553 -t nativein -l /home/nativein
```

**Note: It is VERY important that the value used for your seed be written down and stored as there is no way to recover this value.**



## Configuration – idsicrt flags

- **Flags used in this example:**

<b>-l nativein</b>	<b>The Instance name</b>
<b>-e seedfornativein</b>	<b>The encryption seed</b>
<b>-p 10389</b>	<b>The port ibmslapd will run on</b>
<b>-s 10636</b>	<b>The SSL port for ibmslapd</b>
<b>-a 3550</b>	<b>The Admin Daemon port</b>
<b>-c 3553</b>	<b>The SSL Admin Daemon port</b>
<b>-t nativein</b>	<b>The Instance Name</b>
<b>-l /home/nativein</b>	<b>The location for the instance</b>



## Idsicrt prompts and output

When we issue the command it will present the following output

GLPICR020I A new directory server instance 'nativein' will be created.

GLPICR057I The directory server instance will be created at: '/home/nativein'.

GLPICR013I The directory server instance's port will be set to '10389'.

GLPICR014I The directory server instance's secure port will be set to '10636'.

GLPICR015I The directory server instance's Admin Daemon port will be set to '3550'.

GLPICR016I The directory server instance's Admin Daemon secure port will be set to '3553'.

GLPICR019I The description will be set to: 'IBM Tivoli Directory Server Instance V6.0'.

GLPICR021I Database instance 'nativein' will be configured.

Do you want to....

- (1) Continue with the above actions, or
- (2) Exit without making any changes: **1** ← **Select 1**

## Idsicrt – A successful configuration:

```
ldapaix1.tivlab.austin.ibm.com - PuTTY
.
GLPCTL074I Starting Admin Daemon instance: 'nativein'.
GLPCTL075I Started Admin Daemon instance: 'nativein'.
GLPICR029I Created directory server instance: : 'nativein'.
GLPICR031I Adding database instance 'nativein' to directory server instance: 'na
tivein'.
GLPCTL002I Creating database instance: 'nativein'.
GLPCTL003I Created database instance: 'nativein'.
GLPCTL017I Cataloging database instance node: 'nativein'.
GLPCTL018I Cataloged database instance node: 'nativein'.
GLPCTL008I Starting database manager for database instance: 'nativein'.
GLPCTL009I Started database manager for database instance: 'nativein'.
GLPCTL049I Adding TCPIP services to database instance: 'nativein'.
GLPCTL050I Added TCPIP services to database instance: 'nativein'.
GLPICR081I Configuring database instance 'nativein' for directory server instanc
e: 'nativein'.
GLPICR082I Configured database instance 'nativein' for directory server instanc
e: 'nativein'.
GLPICR052I Creating DB2 instance link for directory server instance: 'nativein'.
GLPICR053I Created DB2 instance link for directory server instance: 'nativein'.
GLPICR032I Added database instance 'nativein' to directory server instance: 'na
tivein'.
[ root@ldapaix1:/ ]
=>
```



## Configuring the database - idscfgdb

- Once our database instance has been created we are now ready to configure the database for use with ITDS. We will run the following command:

```
#idscfgdb -I nativein -a nativein -w ***** -t  
nativein -l /home/nativein
```

- For simplicity sake I named each of my variables the same, in the next slide we will discuss what each flag does.



## idscfgdb – flags

- The flags for the idsicrt command used in the previous example:

<b>-I nativein</b>	<b>The Instance name</b>
<b>-a nativein</b>	<b>The Instance owner</b>
<b>-w *****</b>	<b>The Instance owners password</b>
<b>-t nativein</b>	<b>The database name</b>
<b>-l /home/nativein</b>	<b>The database location</b>



## idscfgdb – Prompt

- When we issue the command we will be presented with the following:

**GLPCDB023I Database 'nativein' will be configured.**

**GLPCDB024I Database 'nativein' will be created at  
'/home/nativein'**

**Do you want to....**

- (1) Continue with the above actions, or**
- (2) Exit without making any changes:1 ← Select 1**



## idscfgdb – A successful database config

```
ldapaixc1.tivlab.austin.ibm.com - PuTTY
'.
GLPCTI074I Starting Admin Daemon instance: 'nativein'.
GLPCTI075I Started Admin Daemon instance: 'nativein'.
GLPICR029I Created directory server instance: : 'nativein'.
GLPICR031I Adding database instance 'nativein' to directory server instance: 'nativein'.
GLPCTI002I Creating database instance: 'nativein'.
GLPCTI003I Created database instance: 'nativein'.
GLPCTI017I Cataloging database instance node: 'nativein'.
GLPCTI018I Cataloged database instance node: 'nativein'.
GLPCTI008I Starting database manager for database instance: 'nativein'.
GLPCTI009I Started database manager for database instance: 'nativein'.
GLPCTI049I Adding TCPIP services to database instance: 'nativein'.
GLPCTI050I Added TCPIP services to database instance: 'nativein'.
GLPICR081I Configuring database instance 'nativein' for directory server instance: 'nativein'.
GLPICR082I Configured database instance 'nativein' for directory server instance: 'nativein'.
GLPICR052I Creating DB2 instance link for directory server instance: 'nativein'.
GLPICR053I Created DB2 instance link for directory server instance: 'nativein'.
GLPICR032I Added database instance 'nativein' to directory server instance: 'nativein'.
[ root@ldapaixc1:/ ]
=>
```



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