

IBM Tivoli Directory Server 6.3 Installation, Configuration and un-installation

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Introduction

Objectives of this presentation

- Basics of directories and LDAP.
- Introduction to the Tivoli Directory Server
- How to install and configure the server
- How to Migrate from the existing version
- How to upgrade to a fix pack
- Basic administration and maintenance tasks
- Available resources





Contents of the presentation

- 1. Useful links
- 2. Introduction to directories
- 3. Introduction to IBM Tivoli Directory Server
- 4. Installation
- 5. Configuration
- 6. Migration
- 7. Fix pack upgrade
- 8. Un-installation
- 9. Known issues



Useful Links

≻ITDS Support Portal:

http://www-

947.ibm.com/support/entry/portal/Overview/Software/Tivoli/Tivoli_Directory_S erver

➢ITDS Online documentation:

http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/index.jsp? toc=/com.ibm.IBMDS.doc/toc.xml

➤Tivoli Product Lifecycle Site:

http://www-306.ibm.com/software/sysmgmt/products/support/lifecycle/

System Requirements:

http://publib.boulder.ibm.com/infocenter/tivihelp/v2r1/topic/com.ibm.IBMDS.do c/sysreq.htm

➤Google group :

http://groups.google.com/group/ibm.software.ldap/topics?lnk=gschg&hl=en



Useful Links contd..

Support Techical Exchange (STE) Website:

http://www-01.ibm.com/software/sysmgmt/products/support/supp_tech_exch.html

➢Collecting Data For ITDS (Must Gather):

http://www-01.ibm.com/support/docview.wss? rs=767&uid=swg21268035

Recommended Fixes for ITDS:

http://www-01.ibm.com/support/docview.wss? rs=767&uid=swg27009778

Featured Documents:

http://www-1.ibm.com/support/docview.wss?uid=swg27009603





Useful Links contd..

≻Fixes by Version:

http://www-01.ibm.com/support/docview.wss? rs=767&uid=swg21252238

Tivoli Software Global User Group Community http://www.tivoli-ug.org/

≻My Notifications:

https://www-01.ibm.com/software/support/einfo.html

Download Link from passport advantage

http://www.ibm.com/support/docview.wss?uid=swg24015906



Introduction to Directories

- ➤What are directories?
- Difference between relational database and Directories.
- ≻How to access Directories?
- LDAP Architecture
 - Information model
 - Naming model
 - Functional model
 - Security model
- Directory Servers





What are Directories? Why?

- A directory is a listing of information about objects arranged in some order that gives details about each object.
- In computer terms, a directory is a specialized database, also called a data repository, that stores typed and ordered information about objects.
- A directory is a set of objects organized in a logical and hierarchical manner giving details about each object.
- Directory acts as a central and common authority that can securely authenticate the system resources that manage the directory data.



Difference between Relational DB and Directories

- > Directories are meant to store relatively static information.
- Directories are accessed (read or searched) much more often than they are updated (written).
- Directory implementations still do not support transactions, however all databases do support transactions.
- Directories use a simplified and optimized access protocol e.g. light weight directory access protocol.



How to access Directories?

- Client Server model of distributed computing.
- ➢ Directory Access Protocol.
- RFC 1777 Lightweight Directory Access Protocol V2.
- ➢RFC 2251 Lightweight Directory Access Protocol V3.





LDAP Architecture

LDAP models:

- 1. Information: Describes the structure of information stored in an LDAP directory.
- 2. Naming: Describes how information in an LDAP directory is organized and identified.
- 3. Functional: Describes what operations can be performed on the information stored in an LDAP directory.
- 4. Security: Describes how the information in an LDAP directory can be protected from unauthorized access.





Information Model

- Information model describes , how information is stores in LDAP.
- Basic unit of information stored in the directory is called an entry.





Naming Model

- ➢Naming model defines how entries are identified and organized.
- Entries are organized in a tree-like structure called the Directory Information Tree (DIT).
- Entries are arranged within the DIT based on their distinguished name (DN).
- A DN is a unique name that unambiguously identifies a single entry.
- DNs are made up of a sequence of relative distinguished names (RDNs).



Example of DIT







Functional Model

Functional model describes, what all operation can performed on LDAP data.

>Authentication : bind, unbind and abandon

➢Query : search and compare

➢Update : add, delete, modify and modrdn



Security Model

- Security model describes, how the information in an LDAP directory can be protected from unauthorized access.
- Security model is based on bind operation.

≻Simple bind.

➢Secure bind (SSL and TLS)

Simple Authentication and Security Layer (SASL) mechanism.
 Kerberos.





What is Directory server?

- The directory client performs the request, and the process that maintains and looks up information in the directory is called the directory server.
- Some servers can process client requests in parallel. (multi threaded)
- Other servers, if they are currently busy processing another client's request then queue incoming client requests for serial processing. (single treaded)
- Sometimes, a server might become the client of other servers in order to gather the information necessary to process a request.
 e. g. DNS



IBM

Introduction to IBM Tivoli Directory Server

- ➢ IBM implementation of the Lightweight Directory Access Protocol (LDAP)
- Supports : Windows, AIX, Linux, Solaris, and HP-UX
- The TDS server stores directory information using a DB2 database, a proxy server for routing LDAP operations to other servers, a client, and a graphical user interface (GUI) for managing servers.
- Robust replication capability for both master and subordinate replication, gateway, cascaded and peer-to-peer replication with up to dozens of master servers
- Support for distributed directories with the LDAP proxy feature
- Eases management and usability with Web Administration Tool and the Instance Administration Tool
- Tight integration with IBM operating systems, WebSphere middleware, Tivoli identity management, and security products

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Architecture of Tivoli Directory Server





Components of Installation

- Client Software Developers Kit (SDK)
- ≻Java™ client
- ≻Server
 - ➢Proxy server
 - ➤Full server
- ➢Web Administration Tool
- Embedded version of WebSphere Application Server Express
- Embedded WebSphere Application Server 6.1.0.17 is included
 DB2
- Universal Database Enterprise Server Edition (ESE). DB2 V9.5 Fix Pack 1 ESE is included
- ➢Global Security Kit (GSKit)
- ➢IBM Tivoli Directory Integrator V6.1.1

Server Requirements – All Platforms

- The following amount of memory is required for each directory server instance:
 - At least 512 MB for each directory server instance.
 - At least 256 MB for each database instance.
 - At least 512 MB for running the Web Administration Tool and the embedded version of WebSphere Application Server Express on the same computer.
 For better results use 1 GB or more.
 - At least 256 MB for running IBM Tivoli Directory Integrator.
 - Total of at least 1 GB of memory is required on all platforms.
 - On HP-UX with DB2 9.1, 4 GB of memory is required.
- For a full server, IBM Tivoli Directory Server (including the client, the server, and the database) requires about 2 GB of disk space.
 - Might increase based on the number of entries and the size of each entry for your installation.

Preparing for Installation – Users / Groups Needed

 \succ Directory server instance owner.

- Used for the name of the directory server instance.
- Database instance owner.
 - Owner of the database instance that is used by the directory server instance.
 - Used for the name of the database instance.
- Database owner.
 - Owner of the database that is used by the directory server instance.
 - Used by the directory server instance to connect to the database.
- ➤ You can use the same user name for all three roles.
- Follow naming rules and additional restrictions when preparing the user.

IBM

Preparing the users and groups for installation

\succ Using the idsadduser command.

 The following command creates a new user on an AIX, Linux, Solaris, or HP-UX system with user name JoeSmith. The primary group is employees, the home directory is /home/joe, and the password is joespw.

```
idsadduser -u JoeSmith -g dbsysadmin -l /home/joe -w joespw
```

 The following command creates a new user on a Windows system with user name JoeSmith and password joespw. The user is a member of the Administrators group.

```
idsadduser -u JoeSmith -w joespw
```

Using the 'Create user' option in the Configuration utility, this option is covered in the upcoming slides of configuration.





ISMP Install – Launch the Installer

- cd tdsV6.3/tds
- Launch the ISMP installer by issuing:
- ./install_tds.bin

\mathbf{Y}				root@	tdsp521: /63_images/tdsV6.3/tds	×
<u>F</u> ile	<u>E</u> dit	<u>V</u> iew	<u>T</u> erminal	Ta <u>b</u> s	<u>H</u> elp	
root(==>] insta root(==> ,	atdsp ls all_to atdsp /inst	521 /6 ls 521 /6 tall_t	3_images, instal: 3_images, ds.bin	/tdsV6 l_tds. /tdsV6	.3/tds bin media.inf neededFiles .3/tds	*





ISMP Install – Language Selection

<u>F</u> ile	<u>E</u> dit	<u>V</u> iew	<u>T</u> erminal	Ta <u>b</u> s	<u>H</u> elp
		Initi	alizing V	Vizard	
		Launc	ning inst	callsn	leld wizard
			1		InstallShield
				Select	t a language to be used for this wizard.
					English
					Eligiisti
					<u>OK</u> <u>Cancel</u>



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ISMP Install – ITDS Splash Screen



ISMP Install – Welcome screen

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IBM.	Welcome to the InstallShield Wizard for IBM Tiveli Directory Server 6-2
	The InstallShield Wizard will install IBM Tivoli Directory Server 6.3 on your computer. To continue, choose Next. IBM Tivoli Directory Server 6.3
istallShield	

ISMP Install – License Agreement

	IBM Tivoli Directory Server 6.3 - InstallShield Wizard
IBM.	Please read the following license agreement carefully.
	International Program License Agreement
	Part 1 – General Terms
	BY DOWNLOADING, INSTALLING, COPYING, ACCESSING, CLICKING ON AN "ACCEPT" BUTTON, OR OTHERWISE USING THE PROGRAM, LICENSEE AGREES TO THE TERMS OF THIS AGREEMENT. IF YOU ARE ACCEPTING THESE TERMS ON BEHALF OF LICENSEE, YOU REPRESENT AND WARRANT THAT YOU HAVE FULL AUTHORITY TO BIND LICENSEE TO THESE TERMS. IF YOU DO NOT AGREE TO THESE TERMS, - DO NOT DOWNLOAD, INSTALL, COPY, ACCESS, CLICK ON AN "ACCEPT" BUTTON, OR USE THE PROGRAM; AND
	I accept the terms in the license agreement
	\bigcirc I do not accept the terms in the license agreement
	Print
InstallShield	
	< Back Next > Cancel



ISMP Install – Installation type

✓	IBM Tivoli Directory Server 6.3 - InstallShield Wizard
IBM.	Choose the installation type that best suits your needs.
	 Typical Installs all components not already installed and creates a default directory server instance. Custom Allows selection of components for installation and launches a tool to create a directory server instance.
InstallShield	
	< Back Next > Cancel

ISMP Install – Feature Selection

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<u>× ////////////////////////////////////</u>	IBM Tivoli Directory Server 6.3 - InstallShield Wizard
IBM.	Select the features for "IBM Tivoli Directory Server 6.3" you would like to install:
	 Tivoli Global Security Kit DB2 Embedded WebSphere Application Server C Client 6.3 Java Client 6.3 Web Administration Tool 6.3
	Space required for /opt 1976MB Available: 14657MB Space required for /usr 20MB Available: 5453MB
InstallShield	< Back Next > Cancel

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 	_	_	-

ISMP Install – Feature Confirmation

	IBM Tivoli Directory Server 6.3 - InstallShield Wizard
IBM.	Installation has enough information to start copying files. Please review the settings below and if you want to change any setting, click Back.
	IBM Tivoli Directory Server 6.3 will be installed to the following directory.
	/opt/IBM/Idap/V6.3
	The following features will be installed:
	C Client Java Client Web Administration Tool Proxy Server Server Embedded WebSphere Application Server
	DB2 will be installed in path /opt/IBM/tdsV6.3db2
	Tivoli Global Security Kit will be installed in path /usr/opt/ibm
Lu et e licht e Lel	The Web Administration Tool will be deployed into Embedded WebSphere
InstallShield	< <u>B</u> ack <u>Install</u> <u>C</u> ancel



ISMP Install - DB2

≥	IBM Tivoli Directory Server 6.3 - InstallShield Wizard	= X
IBM.		
	Installing DB2. This background installation may take up to 20 minutes; please wait.	
InstallShield	Cancel	

ISMP Install – Extracting ITDS images

 ////////////////////////////////////	IBM Tivoli Directory Server 6.3 - InstallShield Wizard
IBM.	Java COMPATIBLE
	Installing IBM Tivoli Directory Server 6.3. Please wait Extracting 0%
InstallShield	<u>C</u> ancel



ISMP Install - ITDS

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$\mathbf{\overline{\mathbf{v}}}$		IBM Tivoli Directory Server 6.3 - InstallShield Wizard
	IBM.	SECURED
Insta	IlShield	Installing IBM Tivoli Directory Server 6.3. Please wait 100%
hord		<u></u> ancel



ISMP Install - eWAS



ISMP Install – Deploying WAT into eWAS

⊻] {////////////////////////////////////	IBM Tivoli Directory Server 6.3 - InstallShield Wizard	- ×
IBM.	Deploying Web Administration tool into Embedded WebSphere Application Server. This background command may take up to 10 minutes; please wait.	
	3%	
InstallShield	<u>C</u> ancel	


ISMP Install - Complete

IBM.	Installation is now complete. A configuration tool has been launched. To use IBM Tivoli Directory Server, you must configure a directory server instance. In addition, you must configure an administrator distinguished name and password for that directory server instance. If you plan to create a directory server instance rather than a proxy server instance, you must also configure a database. It is recommended that you perform this minimal configuration now.
	The InstallShield Wizard has successfully installed IBM Tivoli Directory Server 6.3. Choose Finish to exit the wizard.
istallShield	
	< Back Next > Einish

IBM

ISMP Install – Set Links via idslink utility

Set links to the ITDSv6.3 client and server utilities.

For usage information use "-?"

<u>F</u> ile	<u>E</u> dit	<u>V</u> iew	<u>T</u> erminal	Ta <u>b</u> s	<u>H</u> elp		60	
root@ ==> c	atdsp: rd /or	521 / st/TBM/	/ldan/V6	.3/bin	-			
root	atdsp	521 /or	t/IBM/1	dap/V6	.3/bin			
==>]	ls							
64			idsld	apdiff		idsrmlink		ldapexop
ibmdi	irctl		idsld	apexop		idsversion		ldapmodify
idsdi	irctl		idsld	apmodi	fy	ldapadd		ldapmodrdn
idslo	dapado	i	idsld	apmodr	dn	ldapchangep	wd	ldapsearch
idslo	dapcha	angepwo	l idsld	apsear	ch	ldapcompare		ldaptrace
idslo	lapcor	npare	idsld	aptrac	e	ldapdelete		tbindmsg
idslo	dapde:	lete	idsli	nk		ldapdiff		07.0
root@	atdsp!	521 /or	t/IBM/1	dap/V6	.3/bin	5		
==> .	/ids	link -g	g -i -s :	fullsr	v -f			

ITDS Instance Administration Tool

🞖 IBM Tiv	oli [Director	y Server Ins	tance Adminis	trati	on Tool 📃 🗆 🔀
ist of directory se	erver in	stances installe	ed on the system			
Local instance	Туре	Version	Server state	Administration server	Descrip	Create an instance
dsrdbm01 db2admin		6.3 6.3	Stopped	Stopped	test in:	Start/Stop
						Manage
						Migrate
						Edit TCP/IP settings
						Delete
						View
						Copy local instance
						Copy remote instance
						Close Help ?



Creating a new TDS instance

➢Click on create a new instance

BM Tiv	oli [Director	y Server Ins	tance Adminis	tratio	on Tool 📃 🗖 🔀
ist of directory se	st of directory server instances installed on the system					
Local instance	Туре	Version	Server state	Administration server	Descri	Create an instance
dsrdbm01		6.3	Stopped	Stopped	IBM Tiv	
db2admin		6.3	Stopped	Stopped	test in:	Start/Stop
						Manage
Create	new	directo	ory server in	nstance 💷 🗆		Migrate
Create or migra	ate		······		^	Edit TCP/IP settings
 Create a r 	Create a new directory server instance: Delete					Delete
Migrate from a previous version of directory server				≡	View	
C Enter path o	of the b	acked up files			_	Copy local instance
			Browse .			Copy remote instance
<					>	ĺ
Help ?		< Back	Next >	Finish Cance	el 📄	



Create new directory server instance
Instance details The directory server instance will be created in an existing system user account. User name administrator Edit user Edit user Create a new user on the system.
Instance location (at least 30 MB fr C V Encryption seed string Confirm encryption seed Use encryption salt value
Encryption salt string Confirm encryption salt Instance description
Help Cancel

An administrator instance exists by default, in this case we would create a new user that would be the TDS instance owner.

Create new direct	ctory server instance	
Instance details The directory server instance will User name testuser Instance location (at least 30 MB C Instance location (at least 30	l be created in an existing system user account. Create user Edit user 3 free)	
Instance description		
Test Instance for STE		
Help ?	< Back Next > Finish	Cancel



Create new directory server instance	
DB2 instance details Enter the details of the DB2 instance to be associated with the new directory server instance. You may select an existing DB2 instance or enter a new DB2 instance name.	
DB2 instance name testuser 💌	
 You cannot select a DB2 instance which is already associated with another directory server instance. The new DB2 instance name should be same as an existing system user account. 	▼
Help ? < Back Next > Finish	Cancel





≻Check the TCP/IP Settings as below.

8	Create new directory server instance 📃 🗆 🔀
	CP / IP settings for multihomed hosts
	Listen on all configured IP addresses
	elect the specific IP addresses to listen on
	.69.254.212.59 0.182.205.50
	Help ? < Back Next > Finish Cancel



8	Create new	directory server instance	
т	CP / IP port settings		
ſ	Enter port details -		
	Server port		
	2389		
	Server secure port		
	2636		
	Administration serv	er port	l I
	3542		
	Administration serv	er secure port	
	3543		
			-
	Help ?	< Back Next > Finish	Cancel



Configuration of the Instance

Create new directory server instance 📃 🗆 🔀
Optional steps You can configure the administrator DN / password and database now, or configure them later using the idsxcfg tool. Clear the boxes for the steps you do not want to perform now.
Steps Configure administrator DN and password Configure database
Help ? < Back Next > Finish Cancel



😚 Create nev	w directory s	erver insta	ince	
Configure administra	tor DN and password			
Administrator DN				
cn=root				
Administrator passw	ord			
••••				
Confirm password				
••••				
Help ?	< Back	Next >	Finish	Cancel



Create new directory server instance	
Configure database	
Database user name	
testuser	
Password	
•••••	
Database name	
testuser	
Show advanced tablespace options	
n	
Help ? < Back Next > Finish	Cancel



😵 Create new directory server instance 📃 🗆 🔀
Database options
Database install location (at least 80 MB free)
C V
Configure for online backup
Database backup location
Browse
Character-set option
Create a universal DB2 database (UTF-8 / UCS-2)
O Create a local codepage DB2 database
Note : Create a universal DB2 database if you anticipate storing data from multiple character sets (recommended).
Help Sector Finish Cancel







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Configuration of the Instance completed

🞖 IBM Tivoli Directory Server Instance Administration Tool 🛛 🗔 🗔 🔀						
ist of directory server instances installed on the system						
Create new directory server instance - Results						
Start time Elapsed time						
5/3/11.8-36 AM 0.3-33						
5/5/116.36 AM						
Task messages						
You have chosen to perform the following actions:						
GLPDPW004I The directory server administrator DN will be set.						
GLPDPW005I The directory server administrator password will be set.						
GLPDPW009I Setting the directory server administrator DN.						
GLPDPW010I Directory server administrator DN was set.						
GLPDPW006I Setting the directory server administrator password.						
GLPDPW007I Directory server administrator password was set.						
idscfgdb.cmd -n -I testuser -a testuser -t testuser -w *** -l C						
GLPWRP123I The program 'C:\PROGRA~1\IBM\LDAP\V6.3\sbin\32\idscfgdb.exe' is used with the following arguments '-n -I te						
You have chosen to perform the following actions:						
GLPCDB023I Database 'testuser' will be configured.						
GLPCDB024I Database 'testuser' will be created at 'C:\'						
GLPCDB035I Adding database 'testuser' to directory server instance: 'testuser'.						
GLPCTL017I Cataloging database instance node: 'testuser'.						
GLPCTL018I Cataloged database instance node: 'testuser'.						
GLPCTL008I Starting database manager for database instance: 'testuser'.						
GLPCTL009I Started database manager for database instance: 'testuser'.						
GLPCTL026I Creating database: 'testuser'.						
GLPCTL027I Created database: 'testuser'.						
GLPCTL034I Updating the database: 'testuser'						
GLPCTL035I Updated the database: 'testuser'						
GLPCTL020I Updating the database manager: 'testuser'.						
GLPCTL0211 Updated the database manager: testuser.						
GLPCTL023I Enabling multi-page file allocation: testuser						
GLPC1L0241 Enabled multi-page file allocation: 'testuser'						
GLPCDB0051 Configuring database testuser for directory server instance: testuser.						
GLPCDB0001 Comigured database testuser for directory server instance: testuser.						
GLPCEG0921 Task completed						
Close Help ?						

IBM

Instance configuration through command line

- Creating a user that will be the DB2 and TDS instance owner
- idsadduser -?
- Command to create the DB2 and directory server instance owner and groups.
- idsadduser [-u username [-w password] [-l home_dir] -g group_name] [-d debug_level] [-b output_file] [-q] [-n]] | -v | -?



Instance configuration through CLI contd..

Adding the user

bash-3.2# idsadduser -u testuser -w secret -l /home/testuser -g idsldap GLPWRP123I The program '/opt/IBM/ldap/V6.2/sbin/64/idsadduser' is used with the following arguments '-u testuser -w ***** -l /home/testuser -g idsldap'.

You have chosen to perform the following actions:

SLPGRP019I System user will be created for directory server instance. GLPGRP020I The system user 'testuser' will be created. GLPGRP021I The user's primary group 'idsldap' will be created. GLPGRP022I The home directory for user 'testuser' will be '/home/testuser'. GLPGRP024I The user 'testuser' will be a member of group 'idsldap'. GLPGRP025I The user 'root' will be a member of group 'idsldap'. GLPGRP005I The password for user 'testuser' will be set. Do you want to.... (1) Continue with the above actions, or (2) Exit without making any changes:1 GLPGRP034I The group 'idsldap' already exists. GLPGRP029I The user 'testuser' was created successfully. GLPGRP030I The user 'testuser' was added to group 'idsldap' successfully. GLPGRP047I The user 'root' is already a member of group 'idsldap'. GLPGRP006I Setting the password for user 'testuser' GLPGRP007I Successfully changed password for user 'testuser'. oash-3.2# 🗌





Instance configuration through CLI contd..

Verifying the user creation and setting write permissions

bash-3.2# cat /etc/passwd | grep testuser testuser:!:266:201::/home/testuser:/usr/bin/ksh bash-3.2# chmod 775 /home/testuser bash-3.2# chown testuser /home/testuser bash-3.2# _





Instance creation

Command to create a directory server instance.

≻idsicrt -?

```
- Usage: idsicrt [-I instance_name [-e
encrypt_seed] [-g encrypt_salt] [-p port] [-s
secureport] [-a adm_port] [-c adm_secureport]
[-t db_instance] [-C] [-i ipaddress] [-1
inst_location] [-r description] [-d
debug_level] [-b output_file] [-G group_name]
[-w user_password] [-q] [-n] [-x]] | -v | -?
```

- Ex. idsicrt -I testuser -e 123456789012345 -I /home/testuser -n



Instance creation contd..

bash-3.2# idsicrt -I testuser -e 123456789012345 -l /home/testuser -n GLPWRP123I The program '/opt/IBM/ldap/V6.3/sbin/64/idsicrt' is used with the fo llowing arguments 'idsicrt -I testuser -e ***** -l /home/testuser -n'. You have chosen to perform the following actions: GLPICR020I A new directory server instance 'testuser' will be created. GLPICR057I The directory server instance will be created at: '/home/testuser'. GLPICR013I The directory server instance's port will be set to '4389'. GLPICR014I The directory server instance's secure port will be set to '4636'. GLPICR015I The directory instance's administration server port will be set to ' 3546'. GLPICR016I The directory instance's administration server secure port will be s et to '3547'. GLPICR019I The description will be set to: 'IBM Tivoli Directory Server Instanc e V6.3'. GLPICR021I Database instance 'testuser' will be configured. GLPICR028I Creating directory server instance: 'testuser'. GLPICR025I Registering directory server instance: 'testuser'. GLPICR026I Registered directory server instance: : 'testuser'. GLPICR049I Creating directories for directory server instance: 'testuser'. GLPICR050I Created directories for directory server instance: 'testuser'. GLPICR043I Creating key stash files for directory server instance: 'testuser'. GLPICR044I Created key stash files for directory server instance: 'testuser'. GLPICR040I Creating configuration file for directory server instance: 'testuser GLPICR041I Created configuration file for directory server instance: 'testuser' GLPICR034I Creating schema files for directory server instance: 'testuser'. GLPICR035I Created schema files for directory server instance: 'testuser'. GLPICR037I Creating log files for directory server instance: 'testuser'. GLPICR038I Created log files for directory server instance: 'testuser'. GLPICR088I Configuring log files for directory server instance: 'testuser'. GLPICR089I Configured log files for directory server instance: 'testuser'. GLPICR085I Configuring schema files for directory server instance: 'testuser'. GLPICR086I Configured schema files for directory server instance: 'testuser'.



Instance creation completed

GLPICR073I Configuring ports and IP addresses for directory server instance: 't estuser'. GLPICR074I Configured ports and IP addresses for directory server instance: 'te stuser'. GLPICR077I Configuring key stash files for directory server instance: <u>'testuser</u> GLPICR078I Configured key stash files for directory server instance: 'testuser' <u>SLPICR046I Creating</u> profile scripts for directory server instance: 'testuser'. GLPICR047I Created profile scripts for directory server instance: 'testuser'. GLPICR103I Adding instance information to the .profile file for directory serve instance: 'testuser'. GLPICR104I Added instance information to the .profile file for directory server instance: 'testuser'. <u>SLPICR069I Adding en</u>try to /etc/inittab for the administration server for direc tory instance: 'testuser'. GLPICR070I Added entry to /etc/inittab for the administration server for direct ory instance: 'testuser'. GLPICR118I Creating runtime executable for directory server instance: 'testuser GLPICR119I Created runtime executable for directory server instance: 'testuser' GLPCTL074I Starting admin server for directory server instance: 'testuser'. GLPCTL075I Started admin server for directory server instance: 'testuser'. SLPICR029I Created directory server instance: : 'testuser'. SLPICR031I Adding database instance 'testuser' to directory server instance: 't estuser'. GLPCTL002I Creating database instance: 'testuser'. SLPCTL003I Created database instance: 'testuser'. ELPICR133I Setting the DB2 registry for database instance 'testuser' to allow DB2 SELECTIVITY. ELPICR134I The DB2 registry for database instance 'testuser' has been set to allow DB2 SELECTIVITY. GLPCTL017I Cataloging database instance node: 'testuser'. GLPCTL018I Cataloged database instance node: 'testuser'. SLPCTL008I Starting database manager for database instance: 'testuser'. ELPCTL009I Started database manager for database instance: 'testuser'. GLPCTL049I Adding TCP/IP services to database instance: 'testuser'. GLPCTL050I Added TCP/IP services to database instance: 'testuser'. ELPICR081I Configuring database instance 'testuser' for directory server instance: 'testuser'. GLPICR082I Configured database instance 'testuser' for directory server instance: 'testuser'. 3191CR0521 Creating DB2 instance link for directory server instance: 'testuser'. GLPICR053I Created DB2 instance link for directory server instance: 'testuser'. GLPICR032I Added database instance 'testuser' to directory server instance: 'testuser'. oash-3.2# 📘





Instance configuration

Command to configure database with directory server instance.

➤ idscfgdb -?

- idscfgdb [-I instance_name] [-w db_admin_pw] [-a db_admin_id -t db_name -l db_location [-x]] [-collate [on|off]] [-c] [-k backup_dir] [-m ts_type] [-u usr_ts_loc] [-U usr_ts_size] [-r ldap_ts_loc] [-R ldap_ts_size] [-z ext_size] [-f config_file] [-d debug_level] [-b output_file] [-q] [-n]]

Ex. idscfgdb -I testuser -I /home/testuser -a testuser -w secret -t testuser -n



Instance configuration completed

bash-3.2# idscfqdb -I testuser -l /home/testuser -a testuser -w secret -t testuser -n GLPWRP123I The program '/opt/IBM/ldap/V6.3/sbin/64/idscfgdb' is used with the following argumen ts '-I testuser -l /home/testuser -a testuser -w ***** -t testuser -n'. You have chosen to perform the following actions: GLPCDB023I Database 'testuser' will be configured. GLPCDB024I Database 'testuser' will be created at '/home/testuser' GLPCDB035I Adding database 'testuser' to directory server instance: 'testuser'. GLPCTL017I Cataloging database instance node: 'testuser'. GLPCTL018I Cataloged database instance node: 'testuser'. GLPCTL008I Starting database manager for database instance: 'testuser'. GLPCTL009I Started database manager for database instance: 'testuser'. GLPCTL026I Creating database: 'testuser'. GLPCTL027I Created database: 'testuser'. GLPCTL034I Updating the database: 'testuser' GLPCTL035I Updated the database: 'testuser' GLPCTL020I Updating the database manager: 'testuser'. GLPCTL021I Updated the database manager: 'testuser'. GLPCTL023I Enabling multi-page file allocation: 'testuser' GLPCTL024I Enabled multi-page file allocation: 'testuser' GLPCDB005I Configuring database 'testuser' for directory server instance: 'testuser'. GLPCDB006I Configured database 'testuser' for directory server instance: 'testuser'. GLPCTL037I Adding local loopback to database: 'testuser'. GLPCTL038I Added local loopback to database: 'testuser'. GLPCTL011I Stopping database manager for the database instance: 'testuser'. GLPCTL012I Stopped database manager for the database instance: 'testuser'. GLPCTL008I Starting database manager for database instance: 'testuser'. GLPCTL009I Started database manager for database instance: 'testuser'. GLPCDB003I Added database 'testuser' to directory server instance: 'testuser'. bash-3.2#





Setting up Admin DN and password

Command to configure administrative DN and password.

idsdnpw -?

idsdnpw [-I instance_name [-u user_DN] [-p
password] [-f config_file] [-d debug_level] [b output_file] [-q] [-n]] | -v | -?

Ex. idsdnpw -I testuser -u cn=root -p secret -n

pash-3.2# idsdnpw -I testuser -u cn=root -p secret -n FLPWRP123I The program '/opt/IBM/ldap/V6.3/sbin/64/idsdnpw' is used with t s '-I testuser -u cn=root -p ***** -n'. You have chosen to perform the following actions:

SLPDPW004I The directory server administrator DN will be set. SLPDPW005I The directory server administrator password will be set. SLPDPW009I Setting the directory server administrator DN. SLPDPW010I Directory server administrator DN was set. SLPDPW006I Setting the directory server administrator password. SLPDPW007I Directory server administrator password was set. SLPDPW007I Directory server administrator password was set.

-		_	
_	_		_
	_		=
	_	_	
 -		_	

Verifying the configuration of instance

>Verify if the server is configured properly

➢idsilist –a will list the details of the instance





Adding a suffix

Stop the server ibmslapd –I <instance name> -k

Idscfgsuf –I <instance name> -s <suffix name>

bash-3.2# ibmslapd -I testuser -k GLPSRV124I The directory server instance 'testuser' is already stopped. bash-3.2# idscfgsuf -I testuser -s "ou=India,o=ibm" GLPWRP123I The program '/opt/IBM/ldap/V6.3/sbin/64/idscfgsuf' is used with the following argume hts '-I testuser -s ou=India,o=ibm'. You have chosen to perform the following actions:

GLPCSF007I Suffix 'ou=India,o=ibm' will be added to the configuration file of the directory ser ver instance 'testuser'.

Do you want to.... (1) Continue with the above actions, or (2) Exit without making any changes:1

GLPCSF004I Adding suffix: 'ou=India,o=ibm'. GLPCSF005I Added suffix: 'ou=India,o=ibm'. pash-3.2#

Verifying whether the suffix is correctly configured

Start the server

ibmslapd -I testuser -n

 \bigcirc

pash-3.2# ibmslapd -I testuser GLPSRV041I Server starting. GLPCTL113I Largest core file size creation limit for the process (in bytes): '1073741312'(Soft limit) an(-1'(Hard limit). ELPCTL121I Maximum Data Seqment(Kbytes) soft ulimit for the process was 131072 and it is modified to the rescribed minimum 262144. ELPCTL122I Maximum File Size(512 bytes block) soft ulimit for the process is 2097151 and the prescribed nimum is 2097151. GLPCTL122I Maximum Open Files soft ulimit for the process is 2000 and the prescribed minimum is 500. ELPCTL121I Maximum Physical Memory(Kbytes) soft ulimit for the process was 32768 and it is modified to the prescribed minimum 262144. LPCTL121I Maximum Stack Size(Kbytes) soft ulimit for the process was 32768 and it is modified to the pro cribed minimum 65536. 519 JEPCTL119I Maximum Virtual Memory(Kbytes) soft ulimit for the process is -1 and the prescribed minimum in L048576. 5LPCOM024I The extended Operation pluqin is successfully loaded from libevent.a. LPCOM024I The extended Operation plugin is successfully loaded from libtranext.a. SLPCOM024I The extended Operation plugin is successfully loaded from libidaprepl.a. LPSRV155I The DIGEST-MD5 SASL Bind mechanism is enabled in the configuration file. GLPCOM021I The preoperation plugin is successfully loaded from libDigest.a. GLPCOM024I The extended Operation plugin is successfully loaded from libevent.a. LPCOM024I The extended Operation plugin is successfully loaded from libtranext.a. GLPCOM023I The postoperation plugin is successfully loaded from libpsearch.a. 5LPCOM024I The extended Operation pluqin is successfully loaded from libpsearch.a. LPCOM025I The audit plugin is successfully loaded from libldapaudit.a. GLPCOM024I The extended Operation plugin is successfully loaded from libevent.a. GLPCOM023I The postoperation plugin is successfully loaded from libpsearch.a. GLPCOM024I The extended Operation plugin is successfully loaded from libpsearch.a.

Verifying suffix configuration contd..

Server started, check the non SSL port, the TDS server will listen to this port

FLPCOMU241 The extended Operation plugin is successfully loaded from libevent.a. GLPCOM023I The postoperation plugin is successfully loaded from libpsearch.a. GLPCOM024I The extended Operation plugin is successfully loaded from libpsearch.a. GLPCOM022I The database plugin is successfully loaded from libback-config.a. GLPCOM024I The extended Operation plugin is successfully loaded from libevent.a. GLPCOM024I The extended Operation plugin is successfully loaded from libtranext.a. GLPCOM023I The postoperation plugin is successfully loaded from libpsearch.a. GLPCOM024I The extended Operation plugin is successfully loaded from libpsearch.a. GLPCOM022I The database plugin is successfully loaded from libback-rdbm.a. GLPCOM010I Replication plugin is successfully loaded from libldaprepl.a. GLPSRV189I Virtual list view support is enabled. GLPCOM021I The preoperation plugin is successfully loaded from libpta.a. GLPSRV194I The Record Deleted Entries feature is disabled. Deleted entries are immediately remo database. GLPSRV207I Group conflict resolution during replication is disabled. GLPSRV200I Initializing primary database and its connections. GLPRDB126I The directory server will not use DB2 selectivity. GLPCOM024I The extended Operation plugin is successfully loaded from libloga.a. GLPCOM024I The extended Operation plugin is successfully loaded from libidsfget.a. GLPSRV180I Pass-through authentication is disabled. GLPCOM003I Non-SSL port initialized to 4389.



Verify if the suffix has been added

➢Query idsIdapsearch on the port to which the server is listening to, the suffix "ou=India, o=ibm" has been configured.

bash-3.2# idsldapsearch -p 4389 -D cn=root -w secret -s base -b "" objectclass=* | grep naming namingcontexts=CN=SCHEMA namingcontexts=CN=CONFIGURATION namingcontexts=CN=LOCALHOST namingcontexts=CN=IBMPOLICIES namingcontexts=CN=DELETED OBJECTS namingcontexts=OU=INDIA.O=IBM ibm-configurationnamingcontext=CN=CONFIGURATION pash-3.2#





Adding an entry to the suffix

Create an Idif file containing the entries to be added, and use it for adding the entries with idsIdapadd.

```
bash-3.2# idsldapadd -D cn=root -w secret -p 4389 -i testfile.ldif
Operation 0 adding new entry cn=Nilesh, ou=India, o=ibm
```

Operation 1 adding new entry cn=Shital, ou=India, o=ibm

bash-3.2#

<pre>bash-3.2# cat /home/testuser/testfile.ldif dn: cn=Nilesh, ou=India, o=ibm objectclass: inetOrgPerson objectclass: organizationalPerson objectclass: person objectclass: top sn: patel</pre>	
dn: cn=Shital, ou=India, o=ibm objectclass: inetOrgPerson objectclass: organizationalPerson objectclass: person objectclass: top sn: patil _	





Performing search on the entry

pash-3.2# idsldapsearch -p 4389 -D cn=root -w secret -s base -b "cn=Nilesh,ou=India,o=ibm" obje ctclass=* cn=Nilesh,ou=India,o=ibm objectclass=inetOrgPerson objectclass=organizationalPerson objectclass=person objectclass=top sn=patel cn=Nilesh bash-3.2#





Fix Pack Upgrade

\geq The fix pack for ITDSV 6.3 can be found at the link below,

https://www-304.ibm.com/support/docview.wss? rs=767&uid=swg21496581#v63

Tivoli Directory Server V6.3 information						
	Server / Client		Web Administration Tool (IDSWebApp)			
Product Level	v.r.m.f	Build date (Mmm DD YYYY)	Version	Build date (Day MM/DD/YYYY)		
6.3 Base	6.3.0.0	Aug 4 2010	6.0000	Thu 07/29/2010		
6.3.0.0-TIV-ITDS-IF0001	6.3.0.1	Nov 18 2010	6.0001	Thu 11/18/2010		
6.3.0.0-TIV-ITDS-IF0002	6.3.0.2	Feb 1 2011	6.0001	Thu 11/18/2010		
6.3.0.0-TIV-ITDS-IF0003	6.3.0.3	Apr 8 2011	6.0001	Thu 11/18/2010		



Before Installing the fix

- Terminate all the daemon processes associated with the IBM Tivoli Directory Server V6.3 that includes
 - The Directory Server
 - The Administration Server
 - The Proxy Server if present

The procedure to back out installation of the fix is different from the earlier versions, you may need to reinstall / uninstall the product for backing out. So read the back-out procedure first or you might first check the fix pack behavior in your test environment.





Before Installing the fix contd..

- Extract (un-tar or unzip) the fix archive to a directory with adequate free space.
 - AIX 535 MB 6.3.0.0-TIV-ITDS-AIX-IF0003
 - HP-UX (IA64) 451 MB 6.3.0.0-TIV-ITDS-HPUXIA64-IF0003
 - Linux (IA32) 260 MB 6.3.0.0-TIV-ITDS-Linux32-IF0003
 - Linux (x86-64) 264 MB 6.3.0.0-TIV-ITDS-LinuxX64-IF0003
 - Linux i/p 270 MB 6.3.0.0-TIV-ITDS-Linuxip-IF0003
 - Linux s390 235 MB 6.3.0.0-TIV-ITDS-Linuxz-IF0003
 - Solaris (SPARC) 467 MB 6.3.0.0-TIV-ITDS-SolarisSparc-IF0003
 - Solaris (x86-64) 374 MB 6.3.0.0-TIV-ITDS-SolarisX64-IF0003
 - Windows (IA32) 703 MB 6.3.0.0-TIV-ITDS-Win32-IF0003
 - Windows (x86-64) 780 MB 6.3.0.0-TIV-ITDS-WinX64-IF0003



Installation of fix pack

- Stop all Tivoli Directory Server client or server processes
 - The directory server
 - ibmslapd -I <directory server instance> -k
 - The administration daemon

idsdiradm -I <instancename> -k

- The custom LDAP applications
- If tracing is enabled, turn off tracing

ldtrc off



Installation of fix pack contd..

On AIX, Linux, Solaris, and HP-UX systems, go to the subdirectory where you un-tarred the file

```
idsinstall -u -f
```

On Windows systems, go to the subdirectory where you unzipped the file

- ITDS_Client-only
- ITDS_Full
- whitepages.
- Open either the ITDS_Client-only or ITDS_Full folder
 - Run *install_tds.exe* as a user with Administrator privilege. Follow the instructions on the InstallShield GUI panels that are displayed. The installation program installs updates to the components that are already installed on your system.




≻For AIX



➤Un-tar is complete

x 6.3.0.0-TIV-ITDS-AIX-IF0002/whitepages/Aix64/install/engine x 6.3.0.0-TIV-ITDS-AIX-IF0002/whitepages/Aix64/install/engine/en jine.jar, 2981803 bytes, 5824 tape blocks 6.3.0.0-TIV-ITDS-AIX-IF0002/whitepages/Aix64/install/engine/ex 6.3.0.0-TIV-ITDS-AIX-IF0002/whitepages/Aix64/install/engine/ex Zaixppk.jar, 665914 bytes, 1301 tape blocks: 6.3.0.0-TIV-ITDS-AIX-IF0002/whitepages/Aix64/install/engine/li orary 6.3.0.0-TIV-ITDS-AIX-IF0002/whitepages/Aix64/install/engine/li orary/hsqldb.jar, 258921 bytes, 506 tape blocks x 6.3.0.0-TIV-ITDS-AIX-IF0002/whitepages/install_AixWp.bin, 7826 5344 bytes, 152862 tape blocks 6.3.0.0-TIV-ITDS-AIX-IF0002/whitepages/media.inf, 13 bytes, 1 tape blocks x 6.3.0.0-TIV-ITDS-AIX-IF0002/whitepages/neededFiles 6.3.0.0-TIV-ITDS-AIX-IF0002/whitepages/neededFiles/deployDWP.b at, 2102 bytes, 5 tape blocks x 6.3.0.0-TIV-ITDS-AIX-IF0002/whitepages/neededFiles/deployDWP.s n, 2486 bytes, 5 tape blocks oash-3.2#



Stop the TDS Server and Administration Server daemons

```
bash-3.2# ibmslapd -I ldapdb2 -k
GLPSRV176I Terminated directory server instance 'ldapdb2' normally.
bash-3.2# idsdiradm -I ldapdb2 -k
GLPADM034I Stopped Admin server instance: 'ldapdb2'.
bash-3.2#
```





> Go to the extracted directory and execute *idsinstall* -u -f

```
bash-3.2# ls
6.3.0.0-TIV-ITDS-AIX-IF0002 6.3.0.0-TIV-ITDS-AIX-IF0002.tar
bash-3.2# cd 6.3.0.0-TIV-ITDS-AIX-IF0002
bash-3.2# ls
idsinstall images whitepages
bash-3.2# ./idsinstall -u -f
 Force downlevel updating package=idsldap.cltbase63 to version=
06.03.0000.0002.
 Force downlevel updating package=idsldap.msg63.en_US to versio
n=06.03.0000.0002.
```





Installation of fix pack completed

```
Force downlevel updating package=idsldap.srvproxy64bit63 to ve
rsion=06.03.0000.0002.
 Force downlevel updating package=idsldap.srv64bit63 to version
:06.03.0000.0002.
 Force downlevel updating package=idsldap.webadmin63 to version
06.03.0000.0002.
 Force downlevel updating package=idsldap.webadmin_max_crypto63
to version=06.03.0000.0002.
All packages were installed successfully!
See the log file: /tmp/idsinstall_05-18-11_08-40-21.log for more
details
bash-3.2#
```





Verifying if the installation is successful

- On AIX, Linux, Solaris, and HP-UX systems, the log file is /tmp/idsinstall_<timestamp>.log
- On Windows systems, the log file is <install_directory>\var\ldapinst.log. (For example, if you installed in the default location, the log file is c:\Program Files\IBM\LDAP\V6.3\var\ldapinst.log.)





Deploying Web Admin Tool updates

- If the Web Administration Tool is installed on your system, after you install the fix, check the version of the Web Administration Tool to see if it was updated.
 - Go to the home directory
 - AIX / Solaris / HP-UX => /opt/IBM/Idap/V6.3
 - deploy_IDSWebApp.sh -v
 - Linux => /opt/ibm/ldap/V6.3
 - deploy_IDSWebApp.sh -v
 - Windows => c:\Program Files\IBM\LDAP\V6.3
 - deploy_IDSWebApp.bat -v

Deploying updates to the web admin tool

If the version and date for the new IDSWebApp.war file is different from the version and date for the currently deployed IDSWebApp.war file, you must deploy the new Web Administration Tool into the application server.

Deploying Web Admin Tool Updates contd..

- ➢ Below actions would be performed
- Remove the previous Web Administration Tool (the IDSWebApp.war file) from the embedded version of WebSphere Application Server (Express)
- Deploy the updated Web Administration Tool into the embedded version of WebSphere Application Server (Express)

Discussed in the next slide

Start the Application Server If there were any configuration settings for the Web Administration Tool, these settings are retained for the new version

<App Server Directory> / bin startServer server1

	_		
			-
_			
		_	_

Deploying Web Admin Tool to the Application Server contd..

- ≻On Windows systems:
 - deploy_IDSWebApp.bat -w <path_to_war_file> -p
 <emb_WAS_installed_path>
- ≻On AIX, Linux, Solaris, or HP-UX systems
 - deploy_IDSWebApp.sh -w <path_to_war_file> -p
 <emb_WAS_installed_path>





Updating the White Pages Tool

➢Updates to the White Pages tool are installed via ISMP

– AIX / Solaris / HP-UX

/opt/IBM/Idap/V6.3/idsapps/deploy_WhitePages

– Linux

/opt/ibm/ldap/V6.3/idsapps/deploy_WhitePages

- Windows systems

c:\Program Files\IBM\LDAP\V6.3\idsapps\deploy_WhitePages.bat





Backout the installation of fix pack

To uninstall the fix pack installation you would need to uninstall the Tivoli Directory Server completely. Please refer to the slide number 64 for uninstalling the Tivoli Directory Server. Reinstall the product again by following the installation instructions again.



Beginning with Migration

Collecting the TDS instances information

- # idsilist -a
- Instance 1
- Name: ldapdb2
- Version: 6.3
- Location: /home/ldapdb2
- Description: IBM Tivoli Directory Server Instance V6.3
- IP Addresses: All available
- Port: 1389
- Secure Port: 1636
- Admin Server Port: 3540
- Admin Server Secure Port: 3541
- Type: Directory Server

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Collecting instance and DB2 information contd..

➢ Collecting DB2 instance information

cd /home/ldapdb2/idsslapd-ldapdb2/etc

egrep -i '(dblocation|dbname|dbinstance|dbuser)'
ibmslapd.conf

ibm-slapdDbInstance: ldapdb2

ibm-slapdDbLocation: /home/ldapdb2

ibm-slapdDbName: ldapdb2

ibm-slapdDbUserID: ldapdb2

ibm-slapdDbUserPW: {AES256}mPsca8da2gkjVnjgiCeDUQ==





Migration contd..

≻You can use

- idsimigr, idsdbmigr, idswmigr (Command Line utilities for Migration / Upgrade)
- idsxinst (Instance Administration Tool)
- ➢Do not unconfigure or uninstall DB2 and Idap instance
- After upgrade previous version can be uninstalled
- The post upgrade process needs to be followed for DB2, otherwise it might lead to TDS starting in config only mode

```
http://www-01.ibm.com/support/docview.wss?
rs=767&uid=swg21217323
```



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Migration contd..

Stop ibmslapd and ibmdiradm processes

- ibmslapd -I ldapdb2 -k
- ibmdiradm -I ldapdb2 -k
- If you would like to go for command line method for upgrade then run *idsimigr* utility, ignore the warning messages shown
 - idsimigr -I ldapdb2 -n
- Start the ibmslapd process
 - ibmslapd -I ldapdb2



Migration using graphical method

Launch the Instance Administration Tool - idsxinst

C:\WINDOWS\syst	em32\c <mark>md.exe</mark> - i	dsxinst	<u> ×</u>			
licrosoft Windows XP [Version 5.1.2600] (C) Copyright 1985-2001 Microsoft Corp.						
C:\Documents and Settir	ıgs∖Administrator>cd	C:\Program Files\II	BM\LDAP\V6.3\sbin			
C:\Program Files\IBM\LI)AP∖V6.3\sbin>idsxin:	st				
IBM Tiv	voli Directory Server Inst	ance Administration To	ol 📃 👘			
List of directory server instar	nces installed on the system	n				
Local instance Type Ver	sion Server state	Administration ser	Create an instance			
	propped	Started	Start/Stop			
			Manage			
			Migrate			
			Edit TCP/IP settings			
			Delete			
			<u></u> iew			
			Copy local instance			
PT. T		T	Copy remote instance			
			<u>C</u> lose Help ?			

Migration using graphical method contd..

× ////////////////////////////////////		Migrate directory server instance	
You have chosen to r	nigrate a directory server ins	stance.	
Directory server insta	ance: Idapdb2		
Version: 6.2			
Start time	Elapsed time		
Task messages			1
FI			15
		Clear re:	ults
		Migrate Close Hel	p ?





Migration Completed

~		Migrate directory server instance	- [B] ×
You have chosen to migrat	e a directory server insta	nce.	
Directory server instance: I	dapdb2		
Version: 6.2			
Start time	Elapsed time		
10/10/10 2:03 PM	0:9:34		
Task messages			- 255
GLPDBM028I The DB2 upo GLPDBM013I The DB2 list GLPDBM015I The DB2 con GLPDBM026I The DB2 terr GLPDBM024I The DB2 for GLPDBM017I The DB2 sto GLPDBM079I Update oper GLPDBM041I Post-migrati GLPDBM081I The idsdbmi	date DBM CFG database dire minate succee ce application p database ma mager cor ration for '/home/Idapdb on task completed succe igr tool ran successfully,	Information G092I Task completed. QK 2/idsslapd-ldapdb2/etc/ldapdb.properties' file for the directory server instance succ ssfully. execution log is '/var/idsldap/V6.3/idsdbmigr.log'.	eede
J eat.		Clear re	sults
		Migrate Close He	§ ql



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Verifying if the Migration is successful

➤To verify upgraded instance at 6.3 level

- idsilist -a
- idsldapsearch -s base -b " " objectclass=*
 vendorversion
- ➤To verify upgraded db2 instance at 9.7 level
 - su ldapdb2
 - db2level

➤To verify the upgraded database at 9.7 level

- db2 connect to ldapdb2



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Un-installation

- Three methods of un-installation on Unix (AIX)
 - Using OS utility SMIT
 - Uninstalling from the /opt/IBM/Idap/V6.3/_uninst directory
 - Installp removal



Un-installation – Using SMIT







Un-installation contd..

🖗 9.182.194.90 - PuTTY	l	P 9.182.194.90 - PuTTY
	Software Installation and M	Softwar
Nove cursor to desired item and press Enter.	Ν	Nove cursor to desired item and press Enter.
Install and Update Software List Software and Related Information Software Maintenance and Utilities Software Service Management Network Installation Management		Commit Applied Software Updates (Remove Saved Files) Reject Applied Software Updates (Use Previous Version) Remove Installed Software
EZ NIM (Easy NIM Tool) System Backup Manager Alternate Disk Installation		Rename Software Images in Repository Clean Up Software Images in Repository
EFIX Management Thin Server Maintenance		Copy Software to Hard Disk for Future Installation Copy Software Bundle to Hard Disk for Future Installation
		Check Software File Sizes After Installation Verify Software Installation and Requisites
		Clean Up After Failed or Interrupted Installation
		Service Update Management Assistant (SUMA)





Un-installation contd..

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	Remove Inst	alled Software			^
Type or select values in entry Press Enter AFTER making all de	SOFTW	ARE name			
* SOFTWARE name PREVIEW only? (remove operati REMOVE dependent software? EXTEND file systems if space DETAILED output?	Move cursor to desired item and pr ONE OR MORE items can be selec Press Enter AFTER making all selec [MORE730] devices.sata.diag devices.scsi.disk.diag.com devices.scsi.disk.diag.rte devices.scsi.disk.rte devices.scsi.disk.re devices.scsi.safte.diag devices.scsi.safte.diag devices.scsi.scarray.diag devices.scsi.scarray.te devices.scsi.tape.diag devices.scsi.tape.rte devices.scsi.tape.rte devices.scsi.tape.rte devices.scsi.tape.rte devices.scsi.tape.rte devices.scsi.tape.rte devices.scsi.tape.rte devices.scsi.tape.rte devices.scsi.tape.rte devices.scsi.tape.rte devices.scsi.tape.rte devices.scsi.tape.rte devices.scsi.tape.rte devices.scsi.tape.rte devices.scsi.tape.rte devices.scsi.tape.rte devices.scsi.tape.rte devices.serial.gio.rte devices.serial.gio.rte devices.ssa.tm.rte devices.ssa.tist.rte devices.usbif.010100.rte devices.usbif.030101.rte devices.usbif.030102.rte devices.usbif.08025002.diag devices.usbif.08025002.rte devices.usbif.080400.diag devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.08025002.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.08025002.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.08025002.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.08025002.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.080400.rte devices.usbif.080	ess F7. ted. tions.		+++++	
Enter Search Pattern.					
<mark>i</mark> ds1dap					
F F1=Help F F8=Image	F2=Refresh F10=Exit		F3=Cancel Enter=Do		
					~

Select the all the packages and uninstall each

P 9.182.194.90 - PuTTY		_ = 🔁 🔀
	Remove Installed Software	~
ype or select values in entry fields. ress Enter AFTER making all desired changes.		
SOFTWARE name PREVIEW only? (remove operation will NOT occur) REMOVE dependent software? EXTEND file systems if space needed? DETAILED output?	[Entry Fields] [idsldap.cltbase63.rte] yes no no no	+
	ARE YOU SURE?	
Continuing may delet to keep. This is yo before continuing. Press Enter to Press Cancel to	te information you may want our last chance to stop continue. return to the application.	
		×





Un-installation contd..

From the _uninst directory

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bash-3.2#	cd /opt/1	[BM/ldap/V6	.3			
bash-3.2#	ls l					
_j∨m	codeset	examples	java	1ib64	sbin	web
_uninst	config	idstools	javalib	license	tmp	
bin	etc	include	lib	nls	var	
bash-3.2#	⁺ cd _unins	st/				
bash-3.2#	ls l					
assembly.	dat	uninstall_	tds.bin 🛛	uninstall_t	tds.jar	
bash-3.2#	'./uninsta	all_tds.bin				

➤ Using installp





Known Issues

- Issue : Default instance creation fails during the Typical installation
 - Recovery: Check the Idapinst.log file created in the <install_location>/var folder for debug information and take actions as necessary
- Issue: When installing using InstallShield GUI on an AIX system, native install packages might not get installed
 - Recovery: On an AIX system, GSKit should be installed before the client or base server "max_crypto" packages are installed. If GSkit is not installed, then native install packages, such as max_crypto, for client and server might not get installed and features, such as SSL, cannot be used.





Known Issues contd..

Issue : Installation failure due to lack of disk space

-Recovery:

- IBM Tivoli Director Server attempts to verify that there is enough space and generates messages if the required disk space is not found, but sometimes the InstallShield GUI cannot progress far enough to issue a message.
- Before installing, make sure you have the required free disk space available that is specified in the system requirements.
- AIX, Linux, Solaris, and HP-UX platforms use the /var directory.The JVM is installed on the installation directory so make sure you have enough space in it





Known Issues contd..

Issue : Missing files after server installation If there are files missing such as idsxinst, idsicrt, or idsilist, IBM Tivoli Directory Proxy Server feature might not have installed correctly. Ex. Web admin tool might not be available.

≻Recovery:

Check the list of packages that are installed, and reinstall thebase server package, or the server or proxy server packages depending on what type of server is required









Tivoli. software

