

DCD Backup and Restore by dcbckdib and Migration Script

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Introduction

This document describes two ways to backup and restore Directory Service (DCD) in the Cisco CallManager environment. One way is to run the dcbckdib utility and the other is to run the migration script.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Cisco CallManager
- Directory Service

Components Used

The information in this document is based on these software and hardware versions:

- Cisco CallManager 3.3 and later

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

Refer to Cisco Technical Tips Conventions for more information on document conventions.

DCD Backup and Restore – dcbckdib

Backup

The DCD backup by dcbckdib is a binary backup. It is used when these conditions are met:

- DCD is in good order.
- Restore to the same version of DCD.

Complete these steps to back up the DCD by dcbckdib.

1. Select **Run** from the Windows Start menu.
2. Type **cmd** to open a command prompt window.
3. Enter **dcbckdib BACKUP <backup directory>** to create a directory and place the backup in a subdirectory.

Figure 1 shows a successful run where arrow A displays the command format, arrow B displays the progress, and arrow C displays the backup file named DATABASE.DAT.

Figure 1 Backup – dcbckdib

```
C:\WINNT\system32\cmd.exe
Microsoft Windows 2000 [Version 5.00.2195]
(C) Copyright 1985-2000 Microsoft Corp.

C:\>\dcdsrvr\bin\dcbckdib /y backup \tmp
Quiescing DC Directory...
Creating backup directory \tmp...
Backing up DIB to directory \tmp...

DC Directory Information Base backed up to \tmp
Unquiescing DC Directory...

C:\>\cd \tmp

C:\tmp>dir
Volume in drive C is MCS7815
Volume Serial Number is 04B5-A286

Directory of C:\tmp

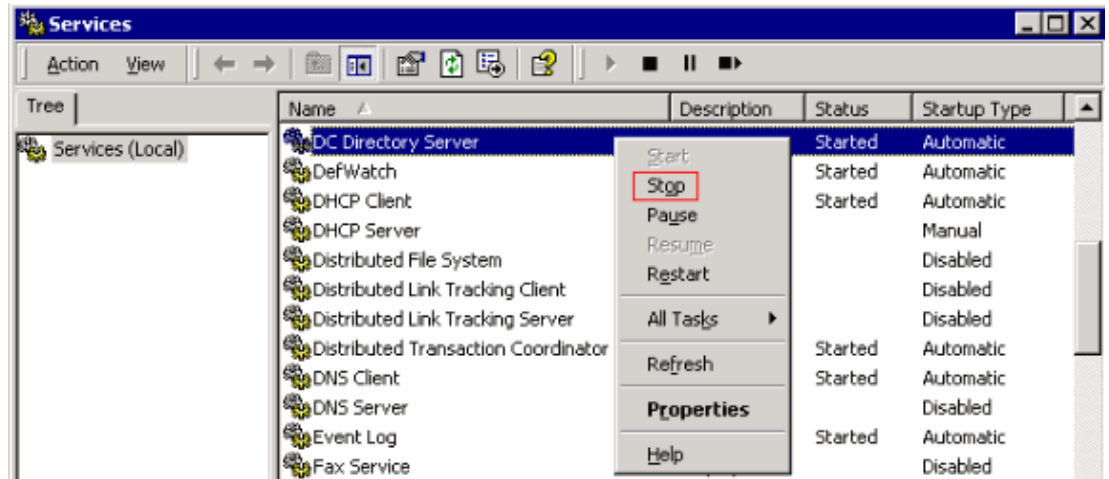
10/21/2005  06:13a    <DIR>          .
10/21/2005  06:13a    <DIR>          ..
10/21/2005  06:13a                1,885,978  DATABASE.DAT
               1 File(s)                1,885,978 bytes
               2 Dir(s)            11,204,069,888 bytes free
```

Restore

Complete these steps to restore the DCD by dcbckdib.

1. Stop the DC Directory Server.
 - a. Select **Start > Programs > Administrative Tools > Services**. The Services window appears (see Figure 2).

Figure 2 Services



- b. Right-click **DC Directory Server**.
- c. Click **Stop** in the pop-up window (see Figure 2).

Note: If you fail to stop the DC Directory Server, the restore fails as shown in Figure 3.

Figure 3 Restore DCD Failure

```
C:\>\dcdsrvr\bin\dcbackdib /y restore \tmp
Error: DC Directory is currently running - cannot restore DIB
```

2. Run the `\dcdsrvr\bin\dcbackdib /y restore \tmp` command to restore the DCD. Figure 4 displays a successful DCD restore by running `dcbackdib`.

Figure 4 Successful DCD Restore – dcbackdib

```
C:\>\dcdsrvr\bin\dcbackdib /y restore \tmp
Deleting current DIB...
Restoring DIB from directory \tmp...
DC Directory Information Base restored from \tmp
```

DCB Backup and Restore – Migration Script

Backup

The backup files created when you run a migration script are flat text files which can be restored to any version of DCD.

Complete these steps to backup the DCD by running the migration script.

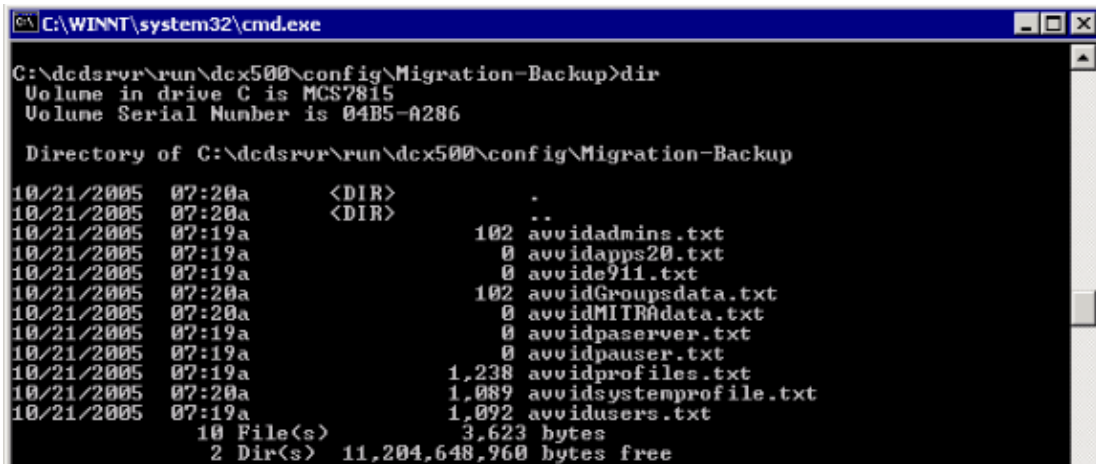
1. Select **Run** from the Windows Start menu.
2. Type **cmd** to open a command prompt window.
3. Run the `\dcdsrvr\bin\avvid_migrate_save <Server Name> <Password>` command. Figure 5 displays a successful run.

Figure 5 A Successful Backup Run – Backup Migration Script

```
C:\>\dcdsrvr\bin\avvid_migrate_save doc2 man123big
Running the perl script avvid_migrate_save.pl. Refer C:\dcdsrvr\log\avvid_migrat
e_save.log for the progress..
```

The backup run keeps all the backup files in the c:\dcdsrvr\run\dcx500\config\Migration-backup directory (see Figure 6) which are used for the future restore.

Figure 6 Backup Files – Backup Migration Script



```
C:\WINNT\system32\cmd.exe
C:\dcdsrvr\run\dcx500\config\Migration-Backup>dir
Volume in drive C is MCS7815
Volume Serial Number is 04B5-A286

Directory of C:\dcdsrvr\run\dcx500\config\Migration-Backup

10/21/2005  07:20a      <DIR>          .
10/21/2005  07:20a      <DIR>          ..
10/21/2005  07:19a             102 avvidadmins.txt
10/21/2005  07:19a              0 avvidapps20.txt
10/21/2005  07:19a              0 avvide911.txt
10/21/2005  07:20a             102 avvidGroupsdata.txt
10/21/2005  07:20a              0 avvidMITRAdata.txt
10/21/2005  07:19a              0 avvidpaserver.txt
10/21/2005  07:19a              0 avvidpauser.txt
10/21/2005  07:19a           1,238 avvidprofiles.txt
10/21/2005  07:20a           1,089 avvidsystemprofile.txt
10/21/2005  07:19a           1,092 avvidusers.txt
                10 File(s)      3,623 bytes
                2 Dir(s)  11,204,648,960 bytes free
```

4. Check the avvid_migrate_save.log file which is located in the c:\dcdsrvr\log directory. This output demonstrates the log of a successful backup run:

```
-----
Script avvid_migrate_save.pl v2.0(8) executed at 10/21/2005  07:19:26
ldap_search: No such object
ldap_search: matched: o=cisco.com
ldap_search: additional info: No such object
ldap_search: No such object
ldap_search: matched: ou=ccn,o=cisco.com
ldap_search: additional info: No such object
ldap_search: No such object
ldap_search: matched: ou=ccn,o=cisco.com
ldap_search: additional info: No such object
ldap_search: No such object
ldap_search: matched: ou=ccn,o=cisco.com
ldap_search: additional info: No such object
Saving User Information...
Time: 10/21/2005  07:19:26
Saving Profile Information...
Time: 10/21/2005  07:19:32
Saving Apps20 Information...
Time: 10/21/2005  07:19:37
Saving Admin Information...
Time: 10/21/2005  07:19:42
Saving PA node Information...
Time: 10/21/2005  07:19:48
Saving E911 node Information...
Time: 10/21/2005  07:19:58
Saving systemProfile...
Time: 10/21/2005  07:20:04
Saving MITRA data...
Time: 10/21/2005  07:20:09
Saving Groups data...
Time: 10/21/2005  07:20:14

End avvid_migrate_save.pl: 10/21/2005  07:20:19
-----
```

Restore

Complete these steps to restore the DCD by running the migration script.

1. Select **Run** from the Windows Start menu.
2. Type **cmd** to open a command prompt window.
3. Run the `\dcdsrvr\bin\avid_migrate_restore <Server Name> <Password>` command. Figure 7 displays a successful run.

Figure 7 A Successful Restore Run – Restore Migration Script

```
C:\>\dcdsrvr\bin\avid_migrate_restore doc2 man123big
Running the perl script avid_migrate_restore.pl. Refer C:\dcdsrvr\log\avid_mig
rate_restore.log for the progress..
```

4. Check the `avid_migrate_restore.log` file which is located in the `c:\dcdsrvr\log` directory. This output demonstrates the log of a successful restore run:

```
-----
Script avid_migrate_restore.pl v2.0(8) executed at 10/21/2005 07:27:37
Restoring Profile Information...
Time: 10/21/2005 07:27:37
Restoring User Information...
Time: 10/21/2005 07:27:42
Restoring Admins Information...
Time: 10/21/2005 07:27:48
Restoring system profile Information...
Time: 10/21/2005 07:27:54
Restoring Groups Information...
Time: 10/21/2005 07:27:59

End avid_migrate_restore.pl: 10/21/2005 07:28:04
-----
** Module ReconfigDCD ** : in isHex
** Module ReconfigDCD ** : The number of characters in the hex
string passed is 18.
** Module ReconfigDCD ** : The string passed is a valid hex string.
** Module ReconfigDCD ** : out isHex. Returning 1
** Module ReconfigDCD ** : Inside runLDAPModifyScript..
** Module ReconfigDCD ** : Inside runRemoteLDAPModifyScript..
** Module ReconfigDCD ** : Running the ldif script,
C:\dcdsrvr\run\DCX500\config\Migration-Backup
\avidprofiles.txt..
** Module ReconfigDCD ** : Inside createProcessNoWindow
** Module ReconfigDCD ** : Exit createProcessNoWindow
** Module ReconfigDCD ** : Replaced all occurrences of findString in the
file C:\dcdsrvr\log\avidprofiles.txt.out with
replaceString
** Module ReconfigDCD ** : C:\dcdsrvr\log\avidprofiles.txt.reject
** Module ReconfigDCD ** : Exit runLDAPModifyScript..
** Module ReconfigDCD ** : Inside runLDAPModifyScript..
** Module ReconfigDCD ** : Inside runRemoteLDAPModifyScript..
** Module ReconfigDCD ** : Running the ldif script, C:\dcdsrvr\run\DCX500\config
\Migration-Backup\avidusers.txt..
** Module ReconfigDCD ** : Inside createProcessNoWindow
** Module ReconfigDCD ** : Exit createProcessNoWindow
** Module ReconfigDCD ** : Replaced all occurrences of findString in the
file C:\dcdsrvr\log\avidusers.txt.out with
replaceString
** Module ReconfigDCD ** : C:\dcdsrvr\log\avidusers.txt.reject
** Module ReconfigDCD ** : Exit runLDAPModifyScript..
** Module ReconfigDCD ** : Inside runLDAPModifyScript..
** Module ReconfigDCD ** : Inside runRemoteLDAPModifyScript..
```

```
** Module ReconfigDCD ** : Running the ldif script, C:\dcdsrvr\run\DCX500\
config\Migration-Backup\avvidadmins.txt..
** Module ReconfigDCD ** : Inside createProcessNoWindow
** Module ReconfigDCD ** : Exit createProcessNoWindow
** Module ReconfigDCD ** : Replaced all occurrences of findString in the file
C:\dcdsrvr\log\avvidadmins.txt.out with replaceString
** Module ReconfigDCD ** : C:\dcdsrvr\log\avvidadmins.txt.reject
** Module ReconfigDCD ** : Inside runLDAPModifyScript..
** Module ReconfigDCD ** : Inside runLDAPModifyScript..
** Module ReconfigDCD ** : Inside runRemoteLDAPModifyScript..
** Module ReconfigDCD ** : Running the ldif script, C:\dcdsrvr\run\DCX500
\config\Migration-Backup\avvidsystemprofile.txt..
** Module ReconfigDCD ** : Inside createProcessNoWindow
** Module ReconfigDCD ** : Exit createProcessNoWindow
** Module ReconfigDCD ** : Replaced all occurrences of findString in the
file C:\dcdsrvr\log\avvidsystemprofile.txt.out
with replaceString
** Module ReconfigDCD ** : C:\dcdsrvr\log\avvidsystemprofile.txt.reject
** Module ReconfigDCD ** : Exit runLDAPModifyScript..
** Module ReconfigDCD ** : Inside runLDAPModifyScript..
** Module ReconfigDCD ** : Inside runRemoteLDAPModifyScript..
** Module ReconfigDCD ** : Running the ldif script, C:\dcdsrvr\run\DCX500
\config\Migration-Backup\avvidGroupsdata.txt..
** Module ReconfigDCD ** : Inside createProcessNoWindow
** Module ReconfigDCD ** : Exit createProcessNoWindow
** Module ReconfigDCD ** : Replaced all occurrences of findString in the
file C:\dcdsrvr\log\avvidGroupsdata.txt.out
with replaceString
** Module ReconfigDCD ** : C:\dcdsrvr\log\avvidGroupsdata.txt.reject
** Module ReconfigDCD ** : Exit runLDAPModifyScript..
```

Related Information

- [Voice Technology Support](#)
- [Voice and Unified Communications Product Support](#)
- [Recommended Reading: Troubleshooting Cisco IP Telephony](#)
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