

Creating PDBs More Options

Part III

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Objectives

By the end of this lecture, you should be able to:

- Relocate a PDB
- Create a proxy PDB
- Create a refreshable PDB



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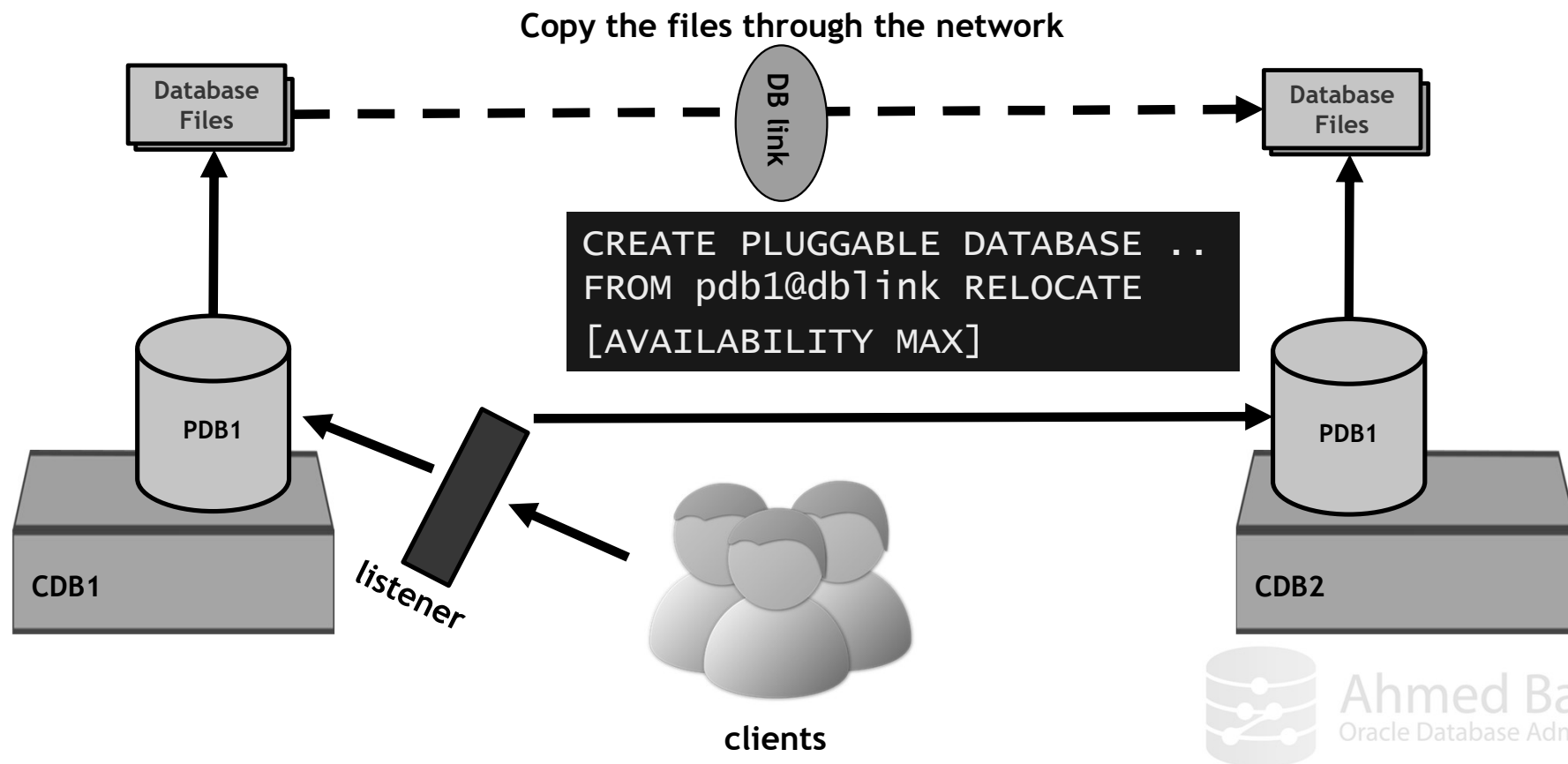
Options for Creating a PDB using CREATE PLUGGABLE DATABASE command

Category	Option	Description
Copying	From the seed	By using the files of the CDB seed or application seed.
	Clone a local PDB	By cloning a source local PDB.
	Clone a remote PDB	By cloning a remote PDB.
	Clone a non-CDB	By cloning a non-CDB.
Plugging In	Plugging in an Unplugged PDB	By plugging in an unplugged PDB
	Adopting a Non-CDB as a PDB (Using the DBMS_PDB)	By creating an unplugged PDB from a non-CDB and then plug the unplugged PDB into the CDB.
Relocating	Relocating a PDB	By moving the files associated with the PDB to a new location.
Proxy PDB	Creating a PDB as a proxy PDB	By referencing a different PDB with a database link



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About Relocating a PDB



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Relocating a PDB Procedure

1. Connect to the root as a common user (SYSOPER)
2. Create the database link to the source pdb
3. Relocate the PDB. The name of the target pdb must be the same as the name of the source pdb.

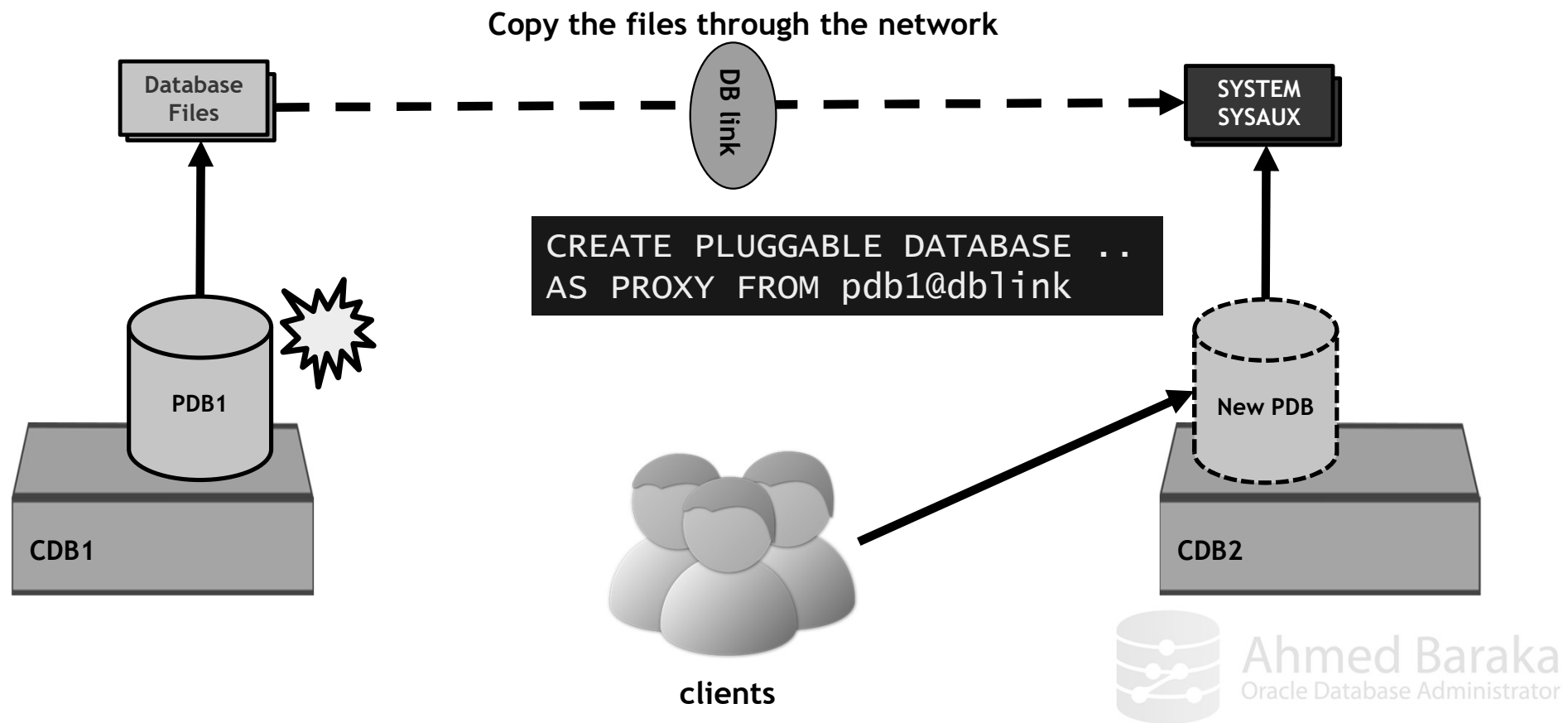
```
CREATE PLUGGABLE DATABASE pdb4 FROM pdb4@sourcedb  
FILE_NAME_CONVERT=('..', '..') RELOCATE  
[AVAILABILITY MAX];
```

4. Open the PDB in read/write mode



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About Creating a Proxy PDB



Creating a Proxy PDB Procedure

1. Connect to the root as a common user
2. Create the database link to the source root or pdb
3. Create the Proxy PDB

```
CREATE PLUGGABLE DATABASE pdb4 AS PROXY  
FROM srcpdb@sourcedb;
```

4. Open the PDB in read/write mode



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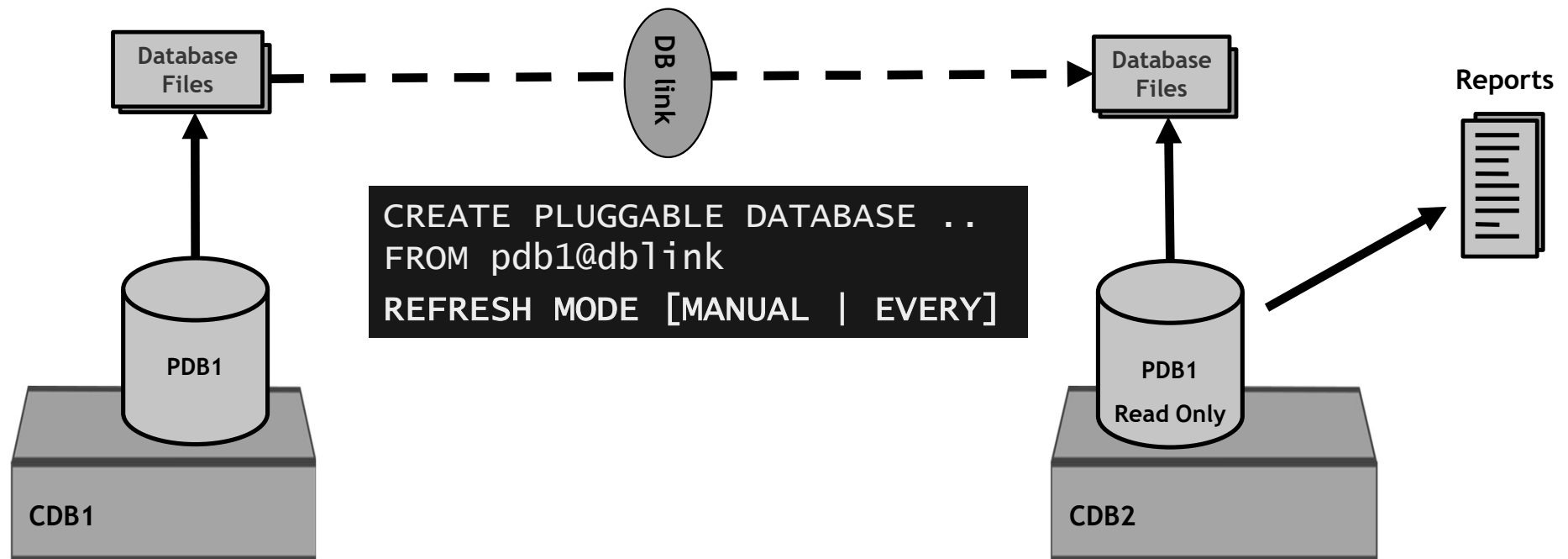
Options for Creating a PDB using CREATE PLUGGABLE DATABASE command

Category	Option	Description
Copying	From the seed	By using the files of the CDB seed or application seed.
	Clone a local PDB	By cloning a source local PDB.
	Clone a remote PDB	By cloning a remote PDB. [refresh mode supported in 12.2]
	Clone a non-CDB	By cloning a non-CDB.
Plugging In	Plugging in an Unplugged PDB	By plugging in an unplugged PDB
	Adopting a Non-CDB as a PDB (Using the DBMS_PDB)	By creating an unplugged PDB from a non-CDB and then plug the unplugged PDB into the CDB.
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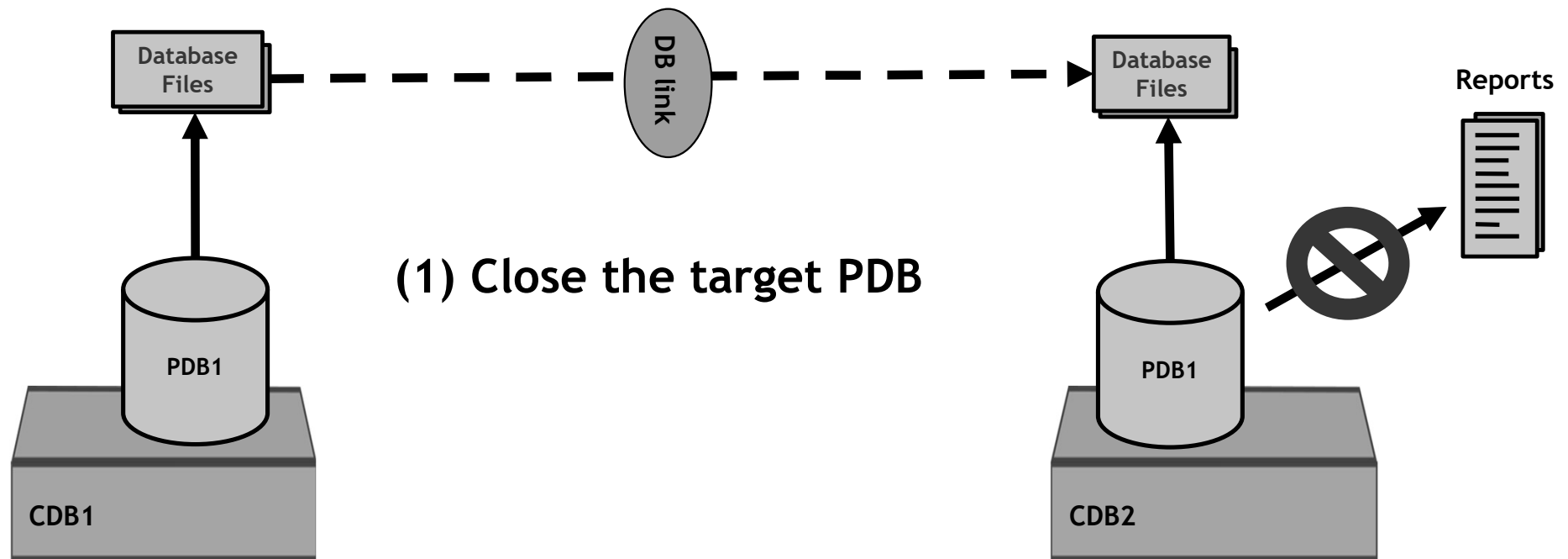
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Creating a Refreshable PDB



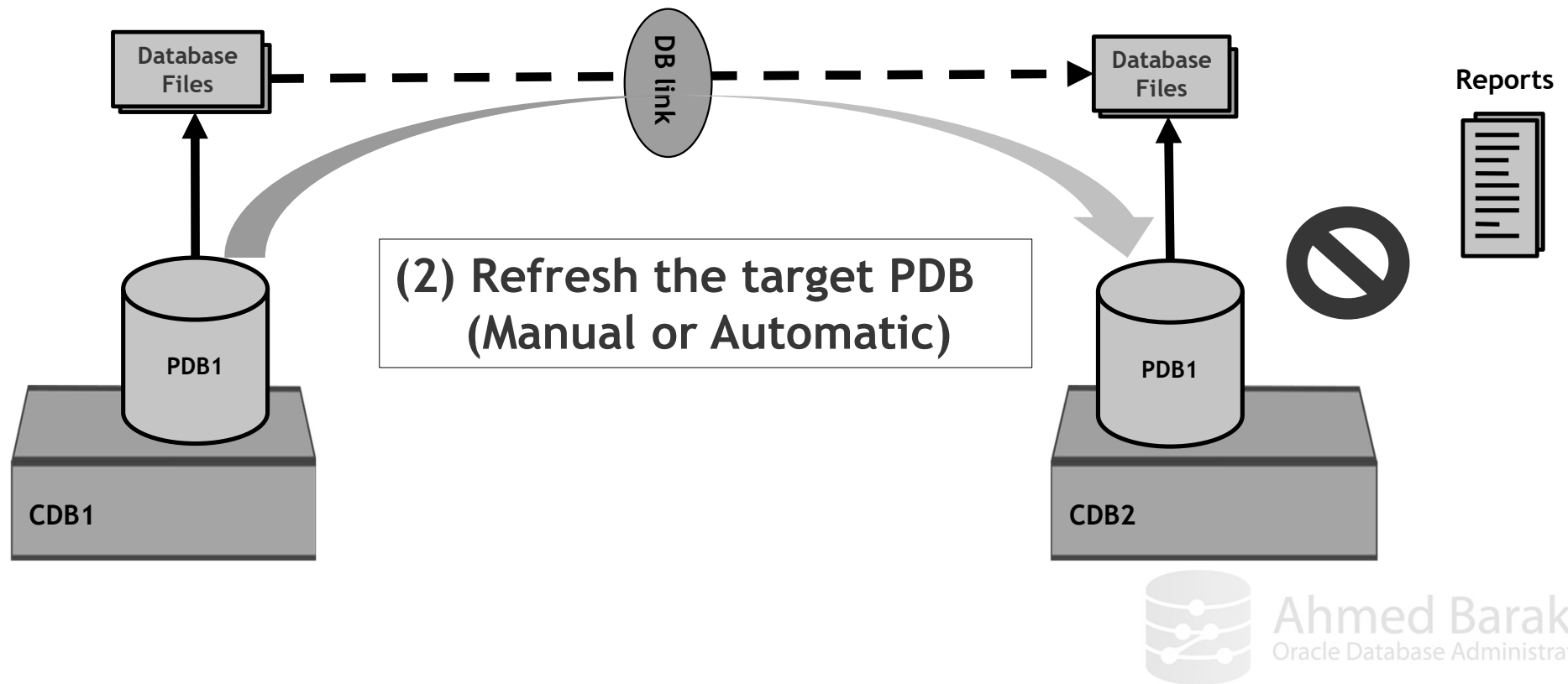
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Refreshing a PDB



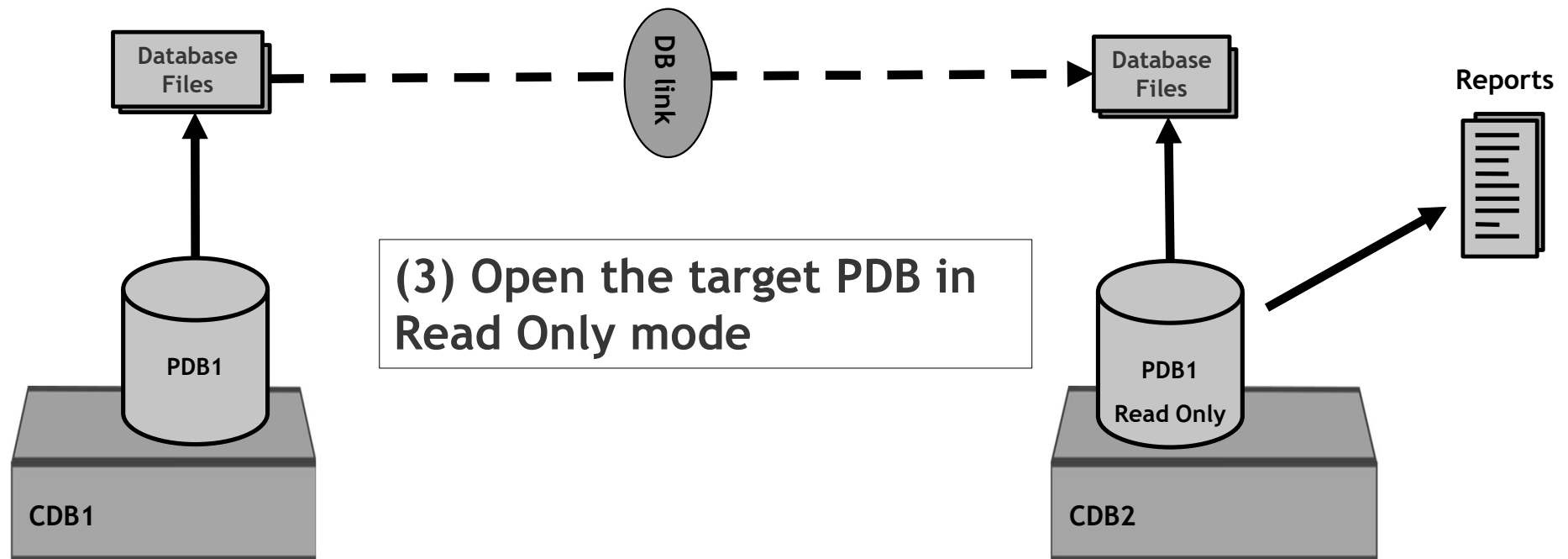
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Refreshing a PDB



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Refreshing a PDB



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About Refreshable PDB Clones

- Supported only in a **CREATE PLUGGABLE DATABASE . . FROM**
- Target and source PDBs must be in separate CDBs
- **REFRESH MODE** options:
 - MANUAL
 - EVERY n MINUTES
 - NONE
- Can be opened only in READ ONLY mode
- Must be closed before refreshing
- New data files added to the source will also get synched



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Creating a Refreshable PDB Procedure

1. Connect to the root as a common user
2. Create the database link to the source root or pdb
3. Create the refreshable PDB

```
CREATE PLUGGABLE DATABASE pdb_rpt FROM pdb_prod@prod_link  
REFRESH MODE MANUAL;
```

```
CREATE PLUGGABLE DATABASE pdb_rpt FROM pdb_prod@prod_link  
REFRESH MODE EVERY 60 MINUTES;
```

4. Open the PDB in Read Only mode



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Summary

In this lecture, you should have learnt the following:

- Relocate a PDB
- Create a proxy PDB
- Create a refreshable PDB



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