

# IBM DB2 Administration for the Oracle DBA A Proof of Technology

## SETUP FOR LAB EXERCISES

### REQUIREMENTS FOR THIS LAB:

These setup instructions are for a “build it yourself” PoT scenario. Other [PoT approaches](#) are outlined at the end of this document. If you are setting up the hardware for the PoT yourself, then you will need to have the following software on your machine:

1. Windows 2000, NT, XP or Server
2. DB2 UDB ESE V8.2
  - Or DB2 Version 8.1 Fixpak 7 (“Stinger” enhancements *are* used in this PoT!)
  - Use “db2level” from a Window’s command prompt to check your version if you are not sure
  - Non partitioning license is OK (DPF is *not* used for this lab)
  - Get an install CD from your rep, or download at:  
<http://www14.software.ibm.com/webapp/download/category.jsp?s=c&cat=database>  
IBM employees can ftp from: [db2ftp.torolab.ibm.com/V82](ftp://db2ftp.torolab.ibm.com/V82)
  - DB2 Administration userid should be DB2ADMIN with password DB2ADMIN
  - Use default directories during install of DB2 binaries
  - Create the SAMPLE DB2 database after install is complete
3. Microsoft Office 2002 (or newer) for PowerPoint, Word and Excel
  - Or you can use the free “viewers”; download them at: <http://www.microsoft.com/office/000/viewers.asp>
4. Adobe Acrobat Reader
  - Get download at: <http://www.adobe.com/products/acrobat/readstep2.html>
5. Materials for this PoT come in two parts:
  - **Scripts (softcopy)** - 29MB zipped, 78MB unzipped  
This zipped file can be copied onto the built image any time after installing above software. We can deliver this file via an e-mail, CD ROM, thumb drive or other media sharing method. Just ask for it from Burt Vialpando at: [vialpand@us.ibm.com](mailto:vialpand@us.ibm.com) or look at the PoT Website <http://atssoftware.dfw.ibm.com/home/> under “Download PoT material”, “Workstation Images”, “Information Management”, “DB2 for Oracle DBA”. File name is: POTBuildItYourselfImage.zip
  - **Presentations & Labs (hardcopy)** - 17 MB zipped, 30 MB unzipped  
This zipped file is for the TEC or IBM personnel to print out at least a couple of days before the PoT starts. The files are separated into two books: Book 1 – Presentations and Book 2 – Labs. These are generally not shared in soft copy format with the attendees of the PoT, but IBM employees can get these materials from Burt Vialpando for printing and distribution at the PoT.

## NEW USER ACCOUNT (XP EXAMPLE)

1. Start ⇒ Control Panel ⇒ User Accounts ⇒ Create a New Account
2. Name for new account: **dbapot** ⇒ Next
3. Pick account type: Computer Administrator ⇒ Create Account
  - Use password **dbapot**
4. [Ctrl] [Alt] [Delete] ⇒ Log off ⇒ Log on as this new user

## OTHER SETUP ISSUES NOT NECESSARY BUT NICE TO HAVE - XP EXAMPLE

1. Windows Explorer Folder should show full directory path
  - In Explorer click Tools ⇒ Folder Options ⇒ [View] tab ⇒ display full path in address and Title bars
2. Windows Explorer File Types can be pre set
  - In Explorer click Tools ⇒ Folder Options ⇒ [File Types] tab
  - Make sure Notepad and not Wordpad is associated with file types: DB2, SQL, DDL, DCL, DML, TXT, DAT, CFG

## ICONS NOT NECESSARY, BUT NICE TO HAVE

Copy & paste these onto your desktop *and* on the task bar

### 1. DB2 Control Center

- Start ⇒ All Programs ⇒ IBM DB2 ⇒ General Admin ⇒ Control Center



### 2. Command Prompt (DOS)

- Start ⇒ Accessories ⇒ Command Prompt



### 3. Services Window

- Start ⇒ Control Panel ⇒ Performance & Maintenance ⇒ Administrative Tools ⇒ Services



## SCRIPTS FOR THIS LAB ARE INSTALLED ON THE COMPUTER UNDER:

### 1. C:\POT\

- 01 INSTANCE\ Instance creation and exploration
- 02 DATABASE\ Database creation and exploration
- 03 SECURITY\ Security concepts and usage
- 04 EXPLAIN\ Explain Facility usage
- 05 AUTOMAINT\ Automatic maintenance
- 06 MDC\ Multidimensional Clusters
- 07 BACKUP\ Backup and restore and logging
- 08 DESIGN\ Design Advisor
- 09 CONFIG\ Configuration Advisor
- 10 HEALTH\ Health Center setup and usage
- 11 ACTIVITY\ Activity Monitor setup and usage
- 12 DATA\ Data Movement utilities
- 13 HADR\ High Availability Disaster Recovery
- 99 EXTRA INFO\ Other supporting documents for this PoT

### 2. Script file names use this convention: TTTTLLNNN.EXT

- **TTTT** = Topic lesson (like "Instance")
- **LL** = Lab number (01, 02, ...)
- **NNN** = Number of script within that lab section
- **EXT** = File extension that best describes the contents: CMD, BAT, DB2, SQL, DML, DCL, etc.
- Example: Instance01001.cmd (first lab, first script)

### 3. Other files:

- \*.ppt = PowerPoint presentation
- \*.doc = Lab Notes and other supporting documentation
- \*.TXT = Code example files (not for execution) and some lab answers

#### **Note about the scripts**

The scripts are written to be run repeatedly if necessary. That means that they may do deletions and other cleanup before creating or generating something. So, if you see errors in the output regarding unfound objects or something similar to that, don't be concerned, this is normal the first time certain scripts are run. Just follow the labs instructions and you will know if the scripts were successful or not by how your lab proceeds.

## PoT APPROACHES

The lab instructions above are for the "build it yourself" approach. Here are the various approaches and their pros and cons for doing each:

### ***Build It Yourself***

This means downloading all the software required for the PoT and installing it on your own hardware, then copying the PoT scripts for the labs on that machine. The PoT is now run from that newly built image.

**Pros:** No specific hardware required except a compatible operating system. Can use hardware normally dedicated to other things as no "wipe" is needed. Easiest to propose for customer site PoT. Lends better to a remote PoT (but this is dependant upon Sametime e-meeting technology.\*)

**Cons:** The setup could be done wrong or incompletely. OS and hardware differences could cause unforeseen problems.

### ***VM (Virtual Machine)***

This means once the PoT builders are done setting up a source machine, the TEC creates a VM image of that machine. This image can now be copied to another machine that has an installed VM workstation to run it from. Contact with the TEC is required to use this PoT scenario.

The image is available at the PoT Website <http://atsssoftware.dfw.ibm.com/home/> under "Download PoT material", "Workstation Images", "Information Management", "DB2 for Oracle DBA". File names start "VM DB2 for Oracle DBA.part\*\*"

**Pros:** Easy to create and set up. Reasonably stable approach from PoT to PoT. Can use hardware dedicated to other things as no "wipe" needed. Doesn't require any special hardware nor OS on that hardware. Could be done at customer site as long as they had their own VM license or could be run on IBM employee laptops. Lends to a remote PoT (but this is dependant upon Sametime e-meeting technology. \*)

**Cons:** Requires VM license on machine running it. Requires 1.5 to 2 gig memory to run effectively. VM copies act *fairly* close to original machine, but are done in a "networked image" way that adds some complexity. For example copying files to and from the image "on the fly" during a PoT might be tricky, thus some knowledge of VM is required to use.

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\* Sametime e-meeting technology can be a mixed bag. While it can work well, it can also go very slow if presentations have lots of animation or if the connection is slow. Too, if you have technical problems, it could put the entire meeting on hold until these are resolved. For a PoT with a tight schedule, losing 15 minutes here and there throughout 1 1/2 days for technical difficulties could be a show stopper. We strongly suggest that any e-meeting longer than 4 hours be discouraged or at least have these risks outlined before proceeding.