

Geeks Guide to BDD 2007 – Part 1, Core Configuration

Welcome

BDD 2007, as you probably already know, is End-to-end guidance, best practices, and tools for planning, building, and deploying Windows and Office. BDD 2007 is developed by a team led by Michael Niehaus (lead developer) and Mike Lewis (Architect).

This guide explains the necessary steps to install and configure the core BDD 2007 components for creating a virtual lab/test environment with BDD 2007.

For improvement suggestions (or bugs) in this guide, please drop a note to johan [dot] arwidmark [at] truesec [dot] com, at myitforum.com (alias jarwidmark) or post in the public Microsoft newsgroups (group: microsoft.public.deployment.desktop)

If you want to learn more, check out my public BDD 2007 classes, or bring me onsite to teach at your company location. Go <http://www.truesec.com> for more info (Click the Flag for English)

Regards,

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The guide covers the following steps

- Creating the BDD 2007 deployment server structure
- Add Windows Vista setup files
- Create a BDD 2007 Build of Windows Vista
- Create a Deployment Point

Prerequisites

To complete the guide, you need a virtual machine with the following configuration.

- OS: Windows Server 2003 SP1
 - Server name: **SRV001** (Domain Controller for tslab.net)
 - A C: and D: drive (for example 32 GB C: and 96 GB D:)
 - DNS and DHCP installed and configured
 - Latest Security patches installed, including Windows Installer 3.1 (KB 893803)
- On SRV001, download BDD 2007 to **D:\Setup\BDD 2007**
 - <http://www.microsoft.com/downloads/details.aspx?amp;displaylang=en&familyid=13F05BE2-FD0E-4620-8CA6-1AAD6FC54741&displaylang=en>
- On SRV001, download .NET Framework 2.0 to **D:\Setup\Net Framework 2.0**
 - <http://www.microsoft.com/downloads/details.aspx?FamilyID=0856eacb-4362-4b0d-8edd-aab15c5e04f5&DisplayLang=en>
- Download MMC 3.0 to **D:\Setup\MMC 3.0**
 - <http://www.microsoft.com/downloads/details.aspx?FamilyID=4c84f80b-908d-4b5d-8aa8-27b962566d9f&DisplayLang=en>
- Download USMT 3.0 to **D:\Setup\USMT 3.0**
 - <http://www.microsoft.com/downloads/details.aspx?FamilyID=799ab28c-691b-4b36-b7ad-6c604be4c595&DisplayLang=en#filelist>
- Download Word Viewer to **D:\Setup\WordViewer 2003**
 - <http://www.microsoft.com/downloads/details.aspx?FamilyID=95e24c87-8732-48d5-8689-ab826e7b8fdf&DisplayLang=en>
- Download WAIK to **D:\Setup\WAIK** on **SRV001**
 - <http://www.microsoft.com/downloads/details.aspx?FamilyID=c7d4bc6d-15f3-4284-9123-679830d629f2&DisplayLang=en>
- If needed, download third party device drivers to **D:\Setup\Drivers**
- Recommended software (but not required)
 - GPMC, Windows Server 2003 SP1 Resource Kit and Support Tools

Step 1 – Creating the server structure

In this part you will install BDD 2007 and add the Windows Vista installation files.

Install BDD 2007, USMT, WAIK and prerequisites

1. On **SRV001**, using **Explorer**, navigate to the **D:\Setup** folder.
2. Install **.NET Framework 2.0 (netfx86.exe)** with default settings.
3. Install **MMC 3.0 (WindowsServer2003-KB907265-x86-ENU.exe)** with default settings.
4. Install **MSXML 6.0 (msxml6x86.msi)** with default settings.
5. Install **WAIK (waikx86.msi)** with default settings
6. Install **BDD 2007 (BDD2007_x86.msi)**, verify that the **Distribution Share** is installed to the **D:** drive, otherwise use default settings.
7. Copy the **USMT 3.0** files (**InstallUSMT30_x86***) to **D:\Distribution\Tools\x86**
8. Due to a bug in the **InstallUSMT30_x86_vista.msu** package (/quiet switch not working), an **USMT30_x86.cab** file should be created and copied to the **D:\Distribution\Tools\x86** folder. Use the following steps:
 - a. On a Vista machine, install **USMT 3.0** (**InstallUSMT30_x86_vista.msu**) manually to the default location (**c:\program files\usmt30**)
 - b. Copy **C:\program files\BDD 2007\samples\USMT30_x86.ddf** from **SRV001** to **C:** on the vista machine
 - c. Start an administrator elevated command prompt, change directory to **C:** and run **makecab.exe /F USMT30_x86.ddf**
 - d. Copy the **usmt30_x86.cab** file to **D:\Distribution\Tools\x86** folder on **SRV001**
9. Due to a bug in Windows PE 2.0 (security.dll is missing), create a folder named **D:\ExtraFiles\Windows\System32** and copy **Security.dll** from the **Vista Host PC** to it.

Create the BDD 2007 service and test accounts

1. Using **Active Directory User and Computers**, create the following OU's
 - a. **Deployment**
 - b. **Workstations**
2. Using **Active Directory User and Computers**, in the **Deployment** OU, create the following user accounts. Set **password** to **P@ssw0rd**.
 - a. **BuildAccount**
 - b. **JoinAccount**
 - c. **HelpDeskAccount**
 - d. **EndUserAccount**

Set permissions on the Workstations OU

1. Using **Active Directory Users and Computers**, allow **JoinAccount** permissions to manage computer accounts in the **Workstations** OU.
 - a. In the view menu, select **Advanced Features**,
 - b. Right-click the **Workstations** OU, select **Properties**, and then click the **Security** Tab.
 - c. Click the **Advanced** button.
 - d. In the **Advanced Security Settings for Workstations** window, click **Add**, type in **Join Account** and click **OK**
 - e. In the **Permissions** List, select the below list of permissions and click **OK** (Verify that the scope is set to **This object and all child objects**).

Scope: **This object and all child objects is selected**

- i. Create Computer objects
 - ii. Delete Computer objects
- f. In the **Advanced Security Settings for Workstations** window, click **Add**, type in **Join Account** again and click **OK**
 - g. In the **Permissions** List, select the below list of permissions and click **OK** (Verify that the scope is set to **Computer objects**).

Scope: **Computer objects**

- i. Read All Properties
 - ii. Write All Properties
 - iii. Read Permissions
 - iv. Modify Permissions
 - v. Change Password
 - vi. Reset Password
 - vii. Validated write to DNS host name
 - viii. Validated write to service principal name
- h. Click **OK** once more.

Step 2 – Add Windows Vista setup files

Add Windows Vista installation files to the Deployment Workbench

1. ON **SRV001**, capture an iso-file with Windows Vista
2. Using the **BDD Workbench**, expand the Distribution node, right-click on the **Operating Systems** node, and select **New** (Or Click **New** from the **Actions** pane). Use the following settings for the **New Os Wizard**.
 - a. **Full set of source files**
 - b. Source directory: **<DVD-Drive>**
 - c. Destination directory name: **Windows Vista x86**

Add applications to the BDD Workbench

1. Using the **BDD Workbench**, expand the Distribution node, right-click on the **Applications** node, and select **New** (Or Click **New** from the **Actions** pane). Use the following settings for the **New Application Wizard**.
 - a. **Application with source files**
 - b. Publisher: **Microsoft**
 - c. Application name: **Word Viewer**
 - d. Version: **2003**
 - e. Language: **English**
 - f. Platform: **x86 platform ONLY!**
 - g. Source Directory: **D:\Setup\WordViewer 2003**
 - h. Specify the name of the directory that should be created: **Microsoft Word Viewer 2003**
 - i. Command Line: **wdviewer.exe /q /c:"msiexec /I wordview.msi /qn"**
 - j. Working directory: **.\Applications\Microsoft Word Viewer 2003**

Add Out-Of-Box drivers to the Deployment Workbench

1. Download drivers to **D:\Setup\Drivers** for your client hardware
2. Using the **BDD Workbench**, expand the **Distribution** node, right-click on the **Out-of-Box Drivers** node, and select **New** (Or Click **New** from the **Actions** pane).
3. Add the drivers in **D:\Setup\Drivers** to the repository.

Step 3 – Create a Build

Create a Build

1. Using the **BDD Workbench**, right-click on the **Builds** node, and select **New** (Or Click **New** from the **Actions** pane). Use the following settings for the **New Build Wizard**.
 - a. Build ID: **Vista**
 - b. Build name: **Windows Vista**
 - c. Build comment: **Company Master Build**
 - d. Operating System Image: **Windows Vista Ultimate**
 - e. ProductKey:
 - f. FullName: **TrueSec**
 - g. Organization: **TrueSec**
 - h. Internet Explorer home page: **<http://www.truesec.com>**
 - i. Administrator Password and confirm Password: **P@ssw0rd**

Step 4 – Create a Deployment Point

Create a Deployment Point

1. Using the **BDD Workbench**, right-click on the **Deploy** node, and select **New** (Or Click **New** from the **Actions** pane). Use the following settings for the **BDD Deployment Wizard**.
 - a. **Lab or single-server deployment** (default)
 - b. Deployment point name: **TSLAB**
 - c. **Allow user to select additional application on Upgrade** (default)
 - d. **Ask if an image should be captured** (default)
 - e. **Do Not Allow the user to set Administrator Password** (Default)
 - f. **Do Not Allow user for specifying product key** (default)
 - g. Share name: **Distribution\$** (default)
 - h. **Allow the user to configure user state options** (default)
2. Using the **BDD Workbench**, right-click the **TSLAB** Deployment Point and select **Properties**.
3. In the **Windows PE** Tab
 - a. In the **Images to Generate** area, make sure that the **Generate a Lite Touch bootable RAM disk ISO image** checkbox is selected
 - b. In the Extra directory to add, type in **D:\ExtraFiles**
 - c. Click **OK**
4. Using the **BDD Workbench**, right-click the **TSLAB** Deployment Point and select **Update**.
 - a. **Note:** The update process will take 5 - 10 minutes.

Set Distribution folder permissions

1. Allow **BuildAccount** modify permissions on the **D:\Distribution** folder (NTFS permissions)

Done! To start deploy Windows Vista, continue with Part2 (Lite Touch Deployment).