Basic RAPTOR Installation Instructions

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Contents

Baseline Equipment

The RAPTOR phase 1 proof of concept application has been installed and successfully demonstrated in the following equipment configurations:

- VA provided Windows XP laptop environment – The RAPTOR developer environment is a Windows XP laptop running IE7 already installed with a MDWS web service on a locally hosted virtual machine.   The MDWS webservice is available at its own IP address.
  - RAPTOR Application launch-able as **http://localhost/raptor/**
- VA provided Windows XP Cloud sandbox – The RAPTOR developer environment is a state-full virtual Windows XP session running IE8 with access to a shared MDWS web service not hosted on the virtual machine. The MDWS webservice is available on localhost port 80.
  - RAPTOR Application launch-able as **http://localhost:8080/raptor/**

Inventory for Installation

The RAPTOR software is still under development. The following sections identify the basic elements and tools of a developer configuration.

Core Framework Software

The following core environment software is open-source and freely available for download. The versions tested with RAPTOR are those shown here, but newer versions should generally work too unless they break backward compatibility.

- Drupal 7.9
- My SQL 5.5.x
- PHP 5.3.x

Recommended Installer for Core Framework Software
- bitnami-drupal-7.9-x-windows-installer to install Drupal 7.9, My SQL 5.5, and PHP 5.3

RAPTOR Application Software for Installation

The RAPTOR application is installed into an appropriately configured environment by installing the contents of the files described in Table 1.

Table 1 - Application Installation Files

Filename	Nickname	Description
raptor_r1_app_files20120319h.7z	**RAPTOR_app_files.7z**	Core RAPTOR phase 1 proof of concept application files

Filename	Nickname	Description
Entire_raptor_db20120316b.sql	**RAPTOR_db.sql**	The entire **raptor_db** database needed by the RAPTOR phase 1 proof of concept application.
protocolLibrary20120317a.7z	**ProLib.7z**	A sample Protocol Library website for use by the RAPTOR protocol library. Contains a few sample scanned protocols.

The nickname in the table above is referenced elsewhere in this document instead of the actual filename.

Additional Recommendations for Developers

These items are not required to run RAPTOR on a machine. However, they are useful to have during development and refinement of the application on a developer machine.

- Filezilla 3.5.x
- Mozilla Firefox 8.0
- Netbeans 7.0.1 IDE with PHP support
- 7-Zip 9.20
- Paint.NET 3.5.x

Installation Procedure

If you are configuring a laptop just for a RAPTOR user, then you can skip the Developer Tools Installation section and go straight to Application Installation section.

Developer Tools Installation

Unless otherwise specified, take the default options during installation of each tool and component.

1. Install **FileZilla** via windows installer
2. Install the **Netbeans** IDE via windows installer
    a. After installation, run Tools->Plugins and install the following…
        i. PHP
        ii. PHP Documentor Tag Help
        iii. PHP-Manual
        iv. PHP Symfony Framework
        v. PHP Zend Framework

3. Install **7-Zip** via 7z920.exe installer
    a. This tool can open the *.7z files.
4. Install **Mozilla Firefox**
    a. Do not set it as the default browser when prompted
5. Install **Paint.NET** via the windows installer

Framework Installation

Install **Drupal, MySQL, and PHP** by any means you wish. However, phase 1 developer team did so by running the by running the open-source **BITNAMI 7.9** installer for convenience. The instructions in this document assume you have installed the tools the same way the RAPTOR team did.
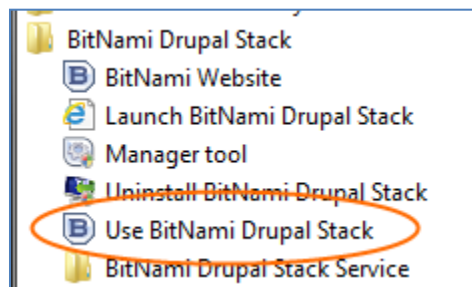
1. Follow wizard prompts until completion
    a. Login
        i. admin
        ii. apass
    b. Site name
        i. RAPTOR
    c. Email support (No)
2. Verify that BITNAMI welcome page shows up with following URL
    a. http://localhost
    b. On the Welcome screen, click the link for **phpMyAdmin** and verify you can log in as admin/apass
3. **IMPORTANT**: Create a backup of the following file:
        i. C:\Program Files\BitNami Drupal Stack\apps\drupal\htdocs\sites\default**settings.php**
    b. This file has the privileged database access password which you will need later!
        i. Open the file and **write down the password** for the **bitnami** database login. (Usually a random string of 10 characters.)

Application Installation

The application can be run in a properly configured environment after installing the raptor_db database, the raptor web application, and a suitable protocol library such as the sample provided as part of this project.

RAPTOR Database
1. **Save** the **RAPTOR_ db.sql** file to the **c:\temp** folder
2. **Next** we will **import** the new database and its data using the command line **mysql** tool. (The SQL files are too big to load using phpMyAdmin tool.)

    a. **Login to mysql tool** as *root* with password *apass*

b. We will DROP the existing database **(CAUTION: Do this ONLY if you have already installed the raptor_db database and want to replace it from scratch – all existing data WILL be lost!)...**
    i. **drop database raptor_db**
c. We will IMPORT the new database...
    i. **source c:\temp\RAPTOR_ db.sql**

RAPTOR Application Code

Install the RAPTOR application code so that it creates a **raptor** folder

1. Extract all contents of **RAPTOR_app_files.7z** into the following folder:
    a. C:\Program Files\BitNami Drupal Stack\apps\
    b. Make sure the files are installed into an **raptor** folder

RAPTOR Sample Protocol Library

Install a RAPTOR protocol library so that it creates a **protocolLibrary** folder

1. Extract all contents of **ProLib.7z** into the following folder:
    a. C:\Program Files\BitNami Drupal Stack\apps\
    b. Make sure the files are installed into an **protocolLibrary** folder

Configuration Adjustments

- C:\Program Files\BitNami Drupal Stack\apache2\conf**httpd.conf**
    o Add these entries...
        ▪ Include "C:/Program Files/BitNami Drupal Stack/apps/raptor/conf/drupal.conf"
        ▪ Include "C:/Program Files/BitNami Drupal Stack/apps/protocolLibrary/conf/content.conf"
- C:\Program Files\BitNami Drupal Stack\apps\raptor\htdocs\sites\all\modules\raptor_blocks\datalayer**config.php**
    o Point to the appropriate MDWS webservices
- C:\Program Files\BitNami Drupal Stack\apps\raptor\htdocs\sites\all\modules\raptor_blocks\datalayer\config**general.cfg**
    o Point to the appropriate MDWS web services and protocolLibrary

Basic Tips and Tests

Raptor will prompt you for a login if you clear the session and cache tables.

- use raptor_db;
- delete from cache;
- delete from sessions;

The login appears at the bottom of the webpage in the "Developer Area". Because of single sign-on the production RAPTOR will NEVER prompt a user for a login.

Ensure the basic Drupal admin panel works by logging into it as **admin** with password **apass**

- Recommend using Firefox so you can use IE to log into RAPTOR
- Ensure the basic PHPMyAdmin works by logging into it as **root** with password **apass**

Log into RAPTOR as a Radiologist **DemoVAUser** with password **demo**.

- Standard VA browser for the application is IE

How to Create an Installation Image

An installation image is simply an installable copy of the files and database from a working RAPTOR system. This is how to create the files so the above instruction can be used to install it.

1. Create a compressed file of the entire apps **raptor** folder into a file called **RAPTOR_app_files.7z**
2. Create an extract of the **raptor_db** into a file called **RAPTOR_db.sql** using phpMySQL
3. Create a compressed file of the entire apps **protocolLibrary** folder into a file called **RAPTOR_app_files.7z**