This document describes how to install multiple TikiWiki applications under one Apache web (HTTP) server using the "MultiTiki" approach.

Environment:
Windows XP Professional 2002
Service Pack 3
Intel Core 2 Duo
T9300 2.50 GHz
2 GB RAM

TikiWiki-3.1
Apache HTTP Server 2.2
MySQL RDBMS 5.3.1

Apache, PHP, and MySQL were installed as part of installing XAMPP, so the locations of their respective directories may differ from what is on your machine.

The resulting installation will have one TikiWiki code-base (php, smary, javascript, etc.) and three distinct MySQL databases (housed under one MySQL relational database management system). TikiWiki's installer program will create additional directories for each sub-domain, that would not ordinarily be seen after installing a single TikiWiki application.

Create a directory in a location outside of Apache's root directory.

In XAMPP, Apache serves up files out of the "htdocs" directory [for example: C:\xampp\htdocs]. On your machine Apache may serve files out of "www" or "public_html".

If you are not sure of what your root directory is, locate the httpd.conf file under the apache installation, and search for the following section…

```
#
# DocumentRoot: The directory out of which you will serve your
# documents. By default, all requests are taken from this directory, but
# symbolic links and aliases may be used to point to other locations.
#
DocumentRoot "C:/xampp/htdocs"
```

In this document, I created a directory called subdomains (name it what you like) as follows…

"C:\subdomains"

In that directory, I unzipped the TikiWiki-3.1.zip file and renamed it "taf" – the name of my application.
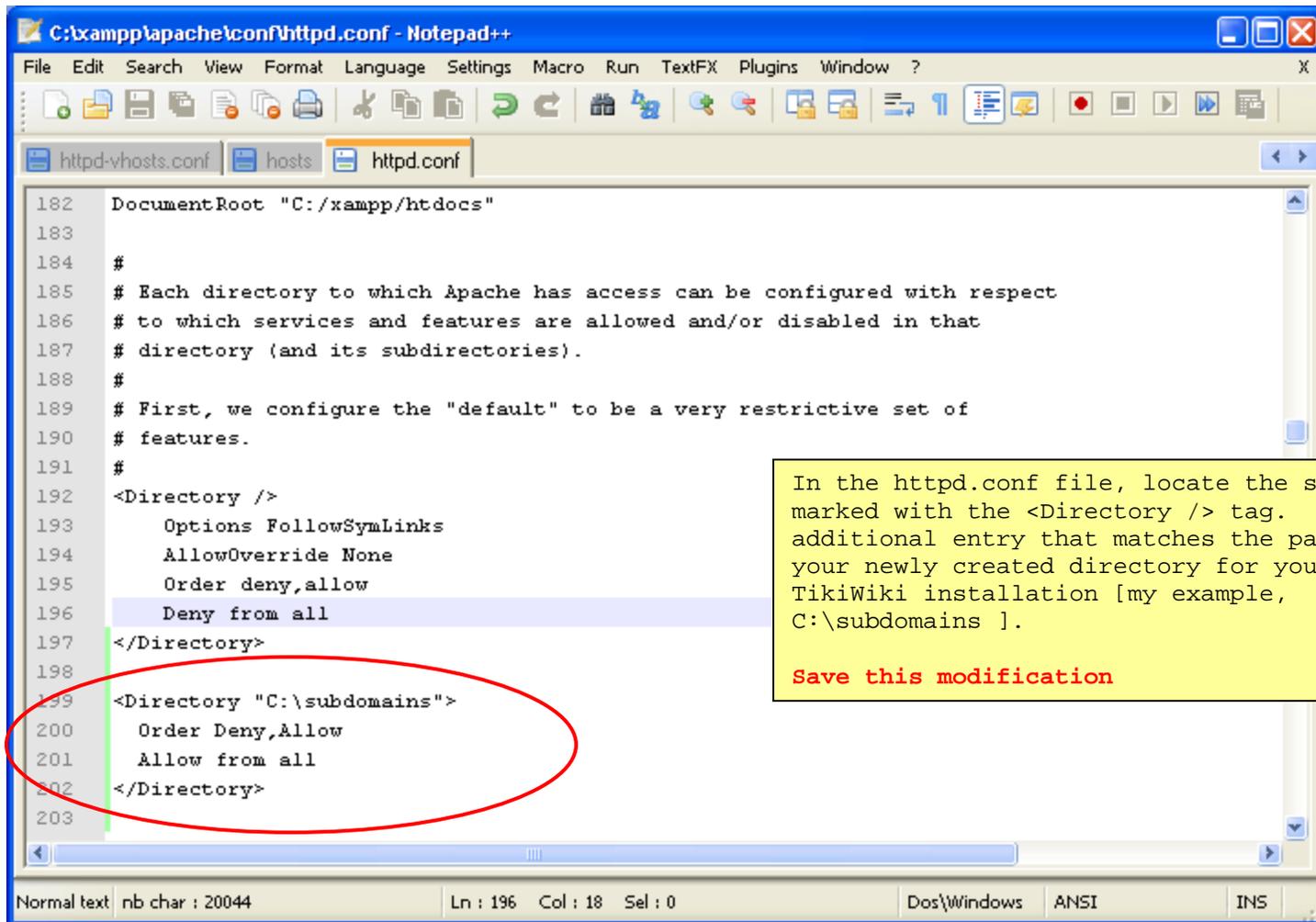
So I ended up with "C:\subdomains\taf"

You will serve-up TikiWiki out of this directory["C:\subdomains"], rather than Apache's root directory.

Locate and create a backup of Apache's "httpd.conf" file. In an XAMPP install, it can be found here:

       C\xampp\apache\conf\httpd.conf

Now, modify the "httpd.conf" file [not the backup] as described below…

```
C:\xampp\apache\conf\httpd.conf - Notepad++

File  Edit  Search  View  Format  Language  Settings  Macro  Run  TextFX  Plugins  Window  ?                    X

 httpd-vhosts.conf    hosts    httpd.conf

182   DocumentRoot "C:/xampp/htdocs"
183
184   #
185   # Each directory to which Apache has access can be configured with respect
186   # to which services and features are allowed and/or disabled in that
187   # directory (and its subdirectories).
188   #
189   # First, we configure the "default" to be a very restrictive set of
190   # features.
191   #
192   <Directory />
193       Options FollowSymLinks
194       AllowOverride None
195       Order deny,allow
196       Deny from all
197   </Directory>
198
199   <Directory "C:\subdomains">
200     Order Deny,Allow
201     Allow from all
202   </Directory>
203

Normal text  nb char : 20044        Ln : 196  Col : 18  Sel : 0        Dos\Windows   ANSI        INS
```

In the httpd.conf file, locate the section marked with the <Directory /> tag. Add an additional entry that matches the path to your newly created directory for your TikiWiki installation [my example, C:\subdomains].

Save this modification

Locate the "hosts" file on your Windows XP machine. It can usually be found at:

    C:\WINDOWS\system32\drivers\etc**hosts**

The host file will probably already contain a definition for "localhost". **Simply add your subdomain names immediately after it, separating each with one space [" "].** Here, I have chosen three subdomain names prefixed to "localhost", with a dot ["."] in between…

    127.0.0.1 localhost demo.localhost test.localhost pilot.localhost
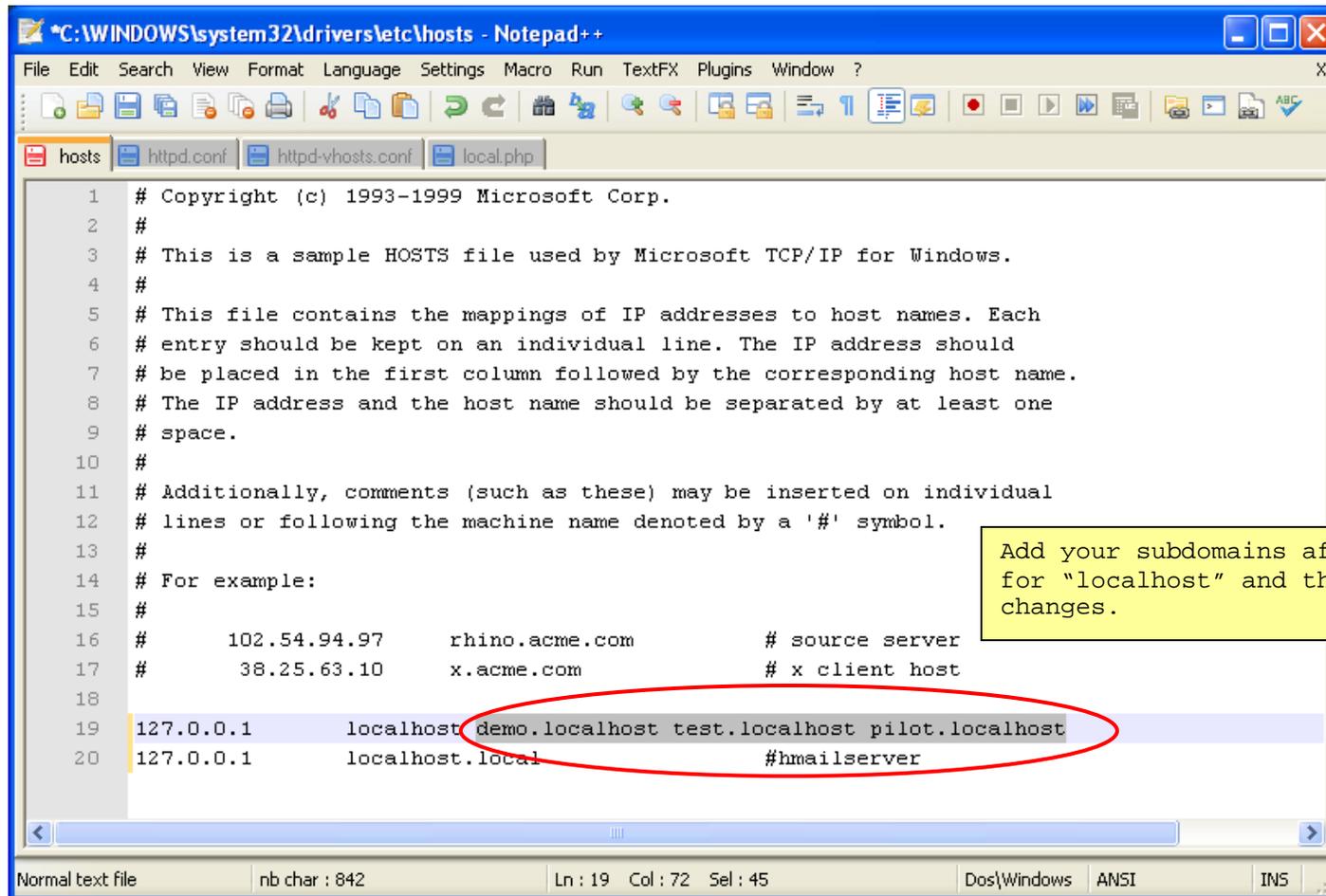
Locate the "httpd-vhosts.conf" file, in the "extra" subdirectory at the following location.

    C:\xampp\apache\conf\extra\httpd-vhosts.conf

If you do not have this file, you can probably create the same definitions within the "httpd.conf" file, under the section for Virtual Hosts.

Once you have saved the changes to **httpd.conf**, **hosts**, and (possibly) **httpd-vhosts.conf**, restart your Apache web server. You are probably running it as a service on Windows XP, and you can restart it by doing the following: **Start → Run → "services.msc" → OK → right-click Apache 2.2 → select "Restart"**
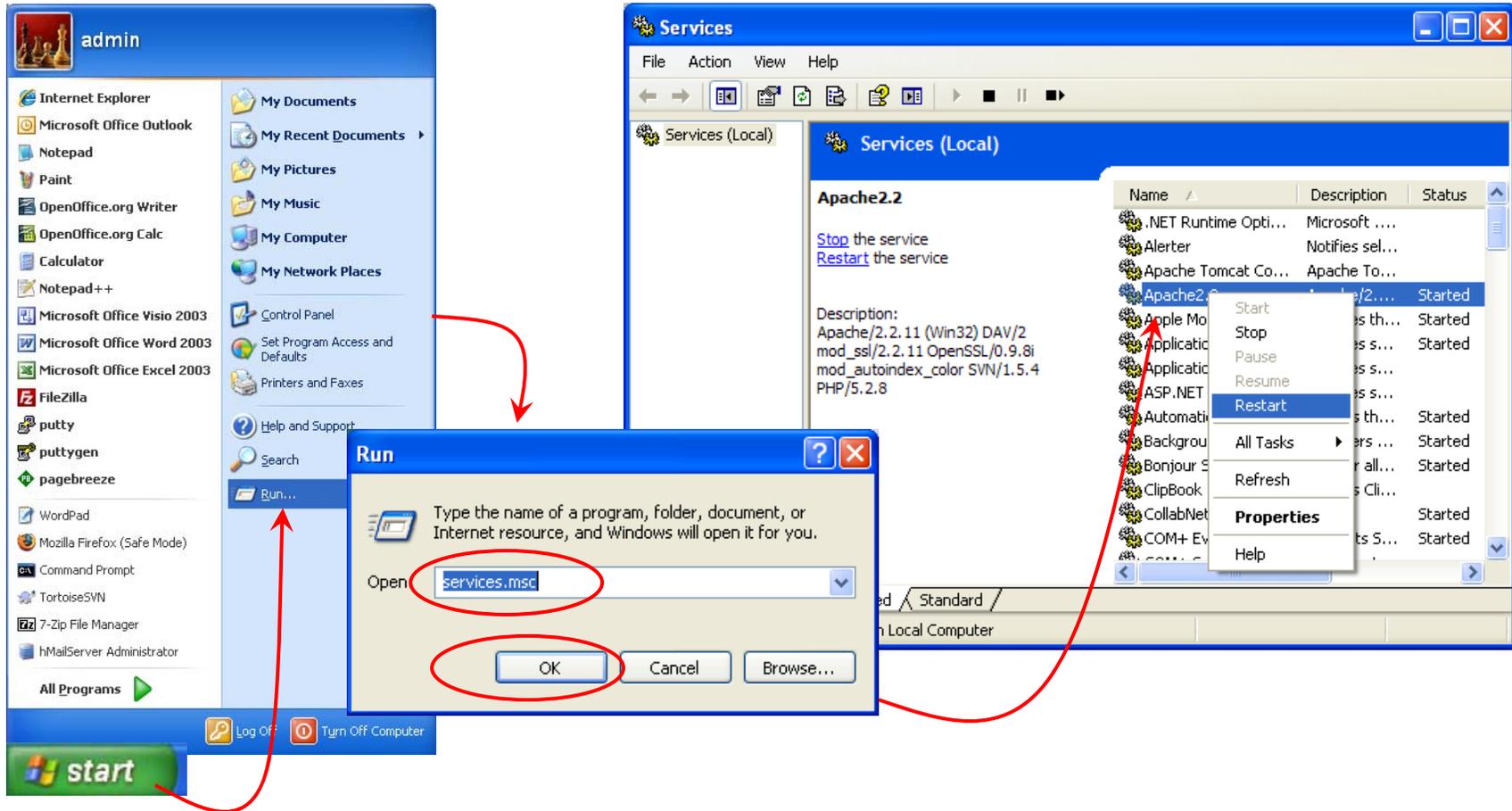
In your TikiWiki install directory [in this example, I renamed it "taf" and it resides in a directory I named "subdomains"], locate the "db" directory…

C:\subdomains\taf\db

In the db directory, there may be a file named "local.php". If so, open it for modification. If not, then created a file by that name and enter the following…

```
*C:\subdomains\taf\db\local.php - Notepad++
File  Edit  Search  View  Format  Language  Settings  Macro  Run  TextFX  Plugins  Window  ?                    X

hosts    httpd.conf    httpd-vhosts.conf    local.php

                                                        See the next page for a breakdown…

 1    <?php
 2    $db_tiki='mysqli';
 3    $dbversion_tiki='3.0';
 4    $host_tiki='localhost';
 5    $user_tiki = 'root';
 6    $pass_tiki = 'yourMySQLRootPassword';
 7
 8    if ($_SERVER["HTTP_HOST"] == "demo" || $_SERVER["HTTP_HOST"] == "www.demo") {
 9       $tikidomain = "demo.localhost";
10       $dbs_tiki = "demo";
11    } elseif ($_SERVER["HTTP_HOST"] == "test" || $_SERVER["HTTP_HOST"] == "www.test") {
12       $tikidomain = "test.localhost";
13       $dbs_tiki = "test";
14    } elseif ($_SERVER["HTTP_HOST"] == "pilot" || $_SERVER["HTTP_HOST"] == "www.pilot") {
15       $tikidomain = "pilot.localhost";
16       $dbs_tiki = "pilot";
17    }
18    ?>

PHP Hypertext Preprocessor file  nb char : 571          Ln : 6   Col : 36   Sel : 0          Dos\Windows    ANSI    INS
```

I have chosen to use the same root MySQL password for each of the databases for each of the subdomains. If you want each database to its own root-user and password, you will need to define "**user_tiki**" and "**pass_tiki**" within in your "**if**" and each of your "**else-if**" blocks.

```php
<?php
$db_tiki='mysqli';
$dbversion_tiki='3.0';
$host_tiki='localhost';
$user_tiki = 'root';
$pass_tiki = 'YourMySQLRootPassword';

if ($_SERVER["HTTP_HOST"] == "demo" || $_SERVER["HTTP_HOST"] == "www.demo") {

  $tikidomain = "demo.localhost";

  $dbs_tiki = "demo";
```

On a server, you might add ".com" or ".org" or whatever your top-level domain name is. In this case it would be "demo.com" and "www.demo.com" respectively.

This should match your subdomains in the "**hosts**" file

You need to create a database in MySQL, for each of your subdomains. You can name them what you like [in this case "demo"], but the "dbs_tiki" variable needs to have the name of the database that you will use for a given subdomain.

```php
} elseif ($_SERVER["HTTP_HOST"] == "test" || $_SERVER["HTTP_HOST"] == "www.test") {
  $tikidomain = "test.localhost";
  $dbs_tiki = "test";
} elseif ($_SERVER["HTTP_HOST"] == "pilot" || $_SERVER["HTTP_HOST"] == "www.pilot") {
  $tikidomain = "pilot.localhost";
  $dbs_tiki = "pilot";
}
?>
```

Repeat the definitions for each of your subdomains. Here, "test" and "pilot" definitions are made.

Here is the text block to copy and modify…

```php
<?php
$db_tiki='mysqli';
$dbversion_tiki='3.0';
$host_tiki='localhost';
$user_tiki = 'root';
$pass_tiki = 'YourMySQLRootPassword';

if ($_SERVER["HTTP_HOST"] == "demo" || $_SERVER["HTTP_HOST"] == "www.demo") {
  $tikidomain = "demo.localhost";
  $dbs_tiki = "demo";
} elseif ($_SERVER["HTTP_HOST"] == "test" || $_SERVER["HTTP_HOST"] == "www.test") {
  $tikidomain = "test.localhost";
  $dbs_tiki = "test";
} elseif ($_SERVER["HTTP_HOST"] == "pilot" || $_SERVER["HTTP_HOST"] == "www.pilot") {
  $tikidomain = "pilot.localhost";
  $dbs_tiki = "pilot";
}
?>
```

In the "db" directory of your TikiWiki installation, create a new directory named after each of your subdomains.

In my example…

C:\subdomains\taf\db**demo.localhost**
C:\subdomains\taf\db**test.localhost**
C:\subdomains\taf\db**pilot.localhost**

    [Remember – "taf" is merely what I renamed my one-and-only TikiWiki-3.1 installation]

In each of these directories, create a local.php file for each of your subdomains and corresponding databases…

db**demo.localhost**	db**test.localhost**	db**pilot.localhost**
```<?php $db_tiki='mysqli'; $dbversion_tiki='3.0'; $host_tiki='demo.localhost'; $user_tiki='root'; $pass_tiki='YourMySQLRootPassword'; $dbs_tiki='demo'; ?>```	```<?php $db_tiki='mysqli'; $dbversion_tiki='3.0'; $host_tiki='test.localhost'; $user_tiki='root'; $pass_tiki='YourMySQLRootPassword'; $dbs_tiki='test'; ?>```	```<?php $db_tiki='mysqli'; $dbversion_tiki='3.0'; $host_tiki='pilot.localhost'; $user_tiki='root'; $pass_tiki='YourMySQLRootPassword'; $dbs_tiki='pilot'; ?>```

Make sure that your variable names are defined according to your subdomain names [hosts file, again], and your MySQL root user name and password and respective database names to that correspond to each of your subdomains.

In your browser, type in http://demo.localhost/tiki-install.php. In my example, "demo" was the name of one of my subdomains. Doing so will display should display the following screen…

This is important! If things have gone well, you should see references to "MultiTiki" displayed in the box on the left-hand side of the browser. Since I typed in the subdomain for demo, the "demo.localhost" is bolded where it says "DB OK". This indicates that the install is targeted for the database defined for the "demo" subdomain. The installer will create several subdirectories for each subdomain, within your original TikiWiki installation directory [or "taf" in my case]. Run through the

"demo" was chosen here.

Run through the installation for each of your subdomains. Make certain that the correct one is selected (i.e. bolded), and make sure to enter the correct "host" and database names on each of the screens. In the end, you should be able to configure the look, feel and functionality of each of your TikiWiki's to be unique. After all, much of it is defined and stored in the database, and each of your subdomains has its own database.