# Prerequisite

1. Apache installable (httpd-2.2.14.tar) is downloaded from Apache Website i.e. <http://www.apache.org/dist/httpd/>
2. GCC compiler for compiling “C” codes. To verify the GCC compiler check by using commands

$rpm –qa | grep gcc

$gcc -v

If not found download from freeware site and install by using “rpm” command and verify by using “gcc” command

1. The “make” and “make all” command are generally used for compiling and installing the codes/software which comes along with the package.

$make -v

# Server Details

**Web Tier Servers**: usfkl23ws08

**Application Tier Servers**: <Weblogic Server>

# Installation Procedure

1. scp the **httpd-2.2.14.tar.gz** to **/tmp** with your own user from your desktop
2. Login as “root” in UNIX server where Apache needs to be installed
3. The installable **httpd-2.2.14.tar.gz** will be stored in **/tmp/apache**
4. cd /tmp
5. check is “apache” directory exist otherwise create by **mkdir apache**
6. cp **httpd-2.2.14.tar.gz /tmp/apache**
7. Run gunzip **httpd-2.2.14.tar.gz**
8. Run **tar –xvf**  **httpd-2.2.14.tar**
9. rm -f **httpd-2.2.14.tar**
10. Go to **cd /tmp/apache/httpd-2.2.14**
11. Look at compiler options – specially the CFLAGS=-O2 , export from the profile
12. Run **./configure --prefix=/opt/apps/dev/apache/2.2.14** --enable-mods-shared=all
13. Run **make**
14. Run **make install**

The library file paths are now added and we will configure the Apache Web server for use.

This will make “Apache 2.2.14” installed at the specific directory required by application. Here we can say <APACHE\_HOME> is **“/opt/apps/dev/apache/2.2.14”**

# Configuration

Make necessary changes in httpd.conf and other .conf file as per requirement.

1. 1. Check whether Apache Web Server 2.2.14 is installed and verify that mod\_so.c module is enabled by executing:

<APACHE\_HOME>/bin/apachectl –l

Where <APACHE\_HOME> path is **/opt/apps/dev/apache/2.2.14**

In our case, Output is:

Compiled in modules:

core.c

prefork.c

http\_core.c

mod\_so.c

mod\_so.c module is required for loading Apache plug-in module for WebLogic.

This command lists all enabled modules. Verify that module mod\_so.c is listed.

1. Copy the mod\_wl\_20.so file to the <APACHE\_HOME>/modules directory from app server
2. Edit the httpd.conf file for adding configuration details, plug in file reference, URL redirections etc

# Start and Stop

1. The server can be started by going to < APACHE\_HOME>/bin and executing **./apachectl start**

2. The server can be stopped by going to < APACHE\_HOME>/bin and executing **./apachectl stop**

3. The server can be restarted by going to < APACHE\_HOME>/bin and executing **./apachectl –k restart**

**Notes:**

1. Shall we make the <APACHE\_HOME> as **“/opt/apps/dev/apache/v2214”** instead of **“/opt/apps/dev/apache/2.2.14”** and do installation one more time after uninstalling the existing one? Srini was suggesting for this
2. If we execute  **export CFLAGS=-O2** this will make the compiler code optimization level at safe but higher level. We can add the same to **export CFLAGS=-O2** in order to avoid multiple time use**/etc/profile** as well.
3. If we make **–enable-mods-shared=all** this will configure to compile and install all modules as shared DSO libraries, that way we can easily enable and disable them in the **httpd.conf** file in future.