

# **APEX Moves from the Garage to the Basement**

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# Ubuntu Install + OracleXE

Screencast:

<http://www.screentoaster.com/watch/stVkxXQkZIR19ZQ1peW1IZX1ZS>

Link to screencast:

[http://www.twitter.com/kenneth\\_lee](http://www.twitter.com/kenneth_lee)

# Install Apache

```
$sudo apt-get install apache2
```

```
$sudo a2enmod proxy
```

- \* If you are using a DSO version of mod\_proxy, make sure the proxy sub-modules are included in the configuration using LoadModule
- \* Load proxy\_http as well to prevent this message - thanks to
- \* <http://blog.andrewbeacock.com/2008/01/one-suggestion-re-forbidden-access-via.html>

```
$sudo a2enmod proxy_http
```

```
$sudo a2enmod rewrite
```

# Virtual Machine - Common Problems

Issue: Virtual Machine missing eth0. Frequent problem when moving virtual machine from one PC to Another.

Solution:

- 1 Modify `/etc/udev/rules.d/70-persistent-net.rules`
- 2 Remove the first entry for eth0
- 3 Rename eth1 to eth0 in the remaining entry
- 4 Restart Server

```
$sudo shutdown -r now
```

# Application Express Installation

unzip apex\_3.1.2.zip (Creates apex directory with all required files)

```
$cd apex
```

```
$sqlplus /nolog
```

```
sql>connect sys as sysdba
```

```
sql>@apexins SYSAUX SYSAUX TEMP /i/
```

after the install , the install kicks you out of sqlplus

\*\*\*\* Use welcome1 for this example

```
$sqlplus /nolog
```

```
sql>connect sys as sysdba
```

```
sql>@apxchpwd
```

```
sql>exit
```

```
$cd ~
```

```
$sudo mkdir /usr/lib/oracle/xe/apex
```

```
$sudo cp -r apex/images /usr/lib/oracle/xe/apex
```

```
$sudo chown -R oracle:dba /usr/lib/oracle/xe/apex
```

# Application Express Installation

```
$sqlplus /nolog
```

```
sql>connect sys as sysdba
```

```
sql>@apex/apxldimg /usr/lib/oracle/xe
```

```
sql>EXEC DBMS_XDB.SETLISTENERLOCALACCESS(FALSE);
```

```
sql>exit
```

I then logged on to <http://oradev:8080/apex> with :

Workspace: internal

Username: admin

Password: (welcome1) password set with apxchpwd.sql

# Apache Configuration

```
<Location /apex>
```

```
    RewriteEngine on
```

```
    Options +FollowSymLinks
```

```
    RewriteCond %{REQUEST_URI}%{QUERY_STRING} !/apex/f?p=4155:.*
```

```
    RewriteCond %{REQUEST_URI}%{QUERY_STRING} /apex/f?p=(4[0-9]{3}:.*)
```

```
    RewriteRule /apex/ - [F]
```

```
</Location>
```

```
ProxyPass /apex http://127.0.0.1:8080/apex
```

```
ProxyPassReverse /apex http://127.0.0.1:8080/apex
```

```
ProxyPass /i http://127.0.0.1:8080/i
```

```
ProxyPassReverse /i http://127.0.0.1:8080/i
```

# Test Configuration

<http://192.168.2.14:8080/apex>

Create a workspace, this will automatically create a default application at id=100

<http://192.168.2.14/apex>

Should get forbidden page

<http://192.168.2.14/apex/f?p=100>

Should work, may get a proxy error. Solutions on next slide for that common error



# Apache Common Issues

Forbidden

Client denied by server

Configuration: proxy:http://127.0.0.1:8080/apex/f

Fix by modifying the file mods-enabled/proxy.conf, and add exception for local host. If problem persists, use “Allow from all” for test.

Solution found on: <http://artur.hefczyc.net/node/10>

You don't have permission to access /apex/f on this server.

From /var/log/apache2/error.log

Client denied by server configuration: proxy: http://localhost:8080/apex/f

File does not exist: /var/www/demo

# Apache Common Issues

Issue: Graphs do not work in demo app

Solution:

Set the HTTP\_HOST variable to what will be entered in the URL

```
exec DBMS_EPG.set_dad_attribute ('APEX','cgi-environment-list','HTTP_HOST=192.168.2.14:80');
```

```
BEGIN
```

```
DBMS_EPG.set_dad_attribute (
```

```
dad_name => 'APEX',
```

```
attr_name => 'cgi-environment-list',
```

```
attr_value => 'HTTP_HOST=192.168.2.14:80');
```

```
END;
```

# Router Configuration

- Setup router to pass traffic for port 80 and port 443 to 192.168.2.14
- Setup dyndns config to map domain name to dynamic IP for cable modem

# Development

Questions?

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