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Advisory

Apache and PHP for ISS user under Ubuntu

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1 Configure Apache2 Web Server

In order to use the Web User Interface (Web UI) of ISS V10.1.x the web server on Ubuntu linux needs to be correctly configured. The following items explain the steps involved but these are all included in the script

```
ubuntu_apache_php.sh
```

which can be run as user iss in the directory containing the script and the associated files. This script must only be run after the ISS openware and ISS RTS software has been installed for the user iss (home directory /home/iss/iss).

1.1 User directory access

The directory /home/iss/iss/public_html must be created and be accessible for apache2 and must be able to run PHP.

As user iss

```
cd
mkdir -p public_html
chmod go-w public_html
```

1.2 Enable Apache Modules

```
sudo a2enmod suexec userdir headers include expires
sudo a2dismod php5
```

1.3 Install suexec2-custom

```
sudo apt-get install apache2-suexec-custom
```

Edit the config file

```
/etc/apache2/suexec/www-data
```

and remove edit the second line to be

```
public_html
```

ie remove the /cgi-bin from the end of public_html

1.4 Install ISS userdir config

There is a file called userdiriss.conf that must be installed into /etc/apache2/mods-available

Copy or create the file (as root)

```
<IfModule mod_userdir.c>
    UserDir enabled iss
    <Directory /home/iss/iss/public_html>

        AllowOverride FileInfo AuthConfig Limit Indexes
        Options MultiViews Indexes
        Options SymLinksIfOwnerMatch IncludesNoExec
        Options +ExecCGI
        AddHandler cgi-script .cgi .php
        Header add Cache-Control "no-cache, must-revalidate"
        Header add Pragma "no-cache"
        Header add Expires "-1"
        <Limit PUT GET POST OPTIONS PROPFIND>
            Order allow,deny
            Allow from all
        </Limit>

        <LimitExcept PUT GET POST OPTIONS PROPFIND>
            Order deny,allow
            Deny from all
        </LimitExcept>

    </Directory>
</IfModule>
```

then install the file

```
cd /etc/apache2/mods-enabled
sudo ln -s ../mods-available/userdiriss.conf .
```

1.5 Restart apache2

As user

```
sudo apache2 restart
```

and check that there are no error messages.

2 Install and Configure PHP5

In order to use the Web User Interface (Web UI) of ISS V10.1.x PHP5 needs to be installed and correctly configured for the iss user. The following steps are required but these are all included as part of the script

```
ubuntu_apache_php.sh
```

which can be run as user iss in the directory containing the script and the associated files (as found in the tarball). This script must only be run after the ISS openware and ISS RTS software has been installed for the user iss (home directory /home/iss/iss).

2.1 Install PHP5

PHP5 must be installed. This is an option during installation of Ubuntu 12.04. In particular the PHP5 CGI must be installed.

```
sudo apt-get install php5 php5-cgi
```

The CGI executable called php5-cgi must be installed in the directory

```
/home/iss/iss/public_html
```

and must be called php (with read and execute permissions).

As user iss

```
cd
cd public_html
ln -s /usr/bin/php5-cgi php
```

2.2 Configure PHP5

The configuration file for PHP must contain an entry to switch off CGI redirect. The configuration file php.ini supplied as part of the tarball can be copied into

```
/home/iss/iss/public_html/
```

2.3 Test PHP

Test the web access and PHP by accessing the PHP Test button on the web UI main page.

This produces a full display of all the current PHP settings.

Appendix 1 - Bash script (ubuntu_apache_php.sh)

```
#!/bin/bash
#
# Setup required to get PHP to work under Ubuntu as iss user
# (home directory /home/iss/iss)
#
# This script must be run as user iss
#
# apache and php
sudo apt-get install apache2 php5-cgi apache2-suexec-custom
#sudo apt-get install
echo "Setting up apache "
# apache setup
sudo cp www-data /etc/apache2/suexec/
sudo cp userdiriss.conf /etc/apache2/mods-available/
sudo a2enmod suexec userdir headers include expires
sudo a2dismod php5
cd /etc/apache2/mods-enabled
sudo ln -s ../mods-available/userdiriss.conf .
cd -
#
sudo service apache2 restart
echo "Setting up public_html (iss user)"
# make public_html
cd
mkdir -p public_html
chmod go-w public_html
cd -
cp php.ini ../public_html
ln -s /usr/bin/php5-cgi ../public_html/php
```

Appendix 2 - Suexec config file (www-data)

```
/var/www
public_html
# The first two lines contain the suexec document root
# and the suexec userdir suffix.
# If one of them is disabled by prepending a # character,
# suexec will refuse the corresponding type of request.
# This config file is only used by the
```

```
# apache2-suexec-custom package.  
# See the suexec man page included  
# in the package for more details.
```