

```

##-----/etc/httpd/user.conf -----
##----- APACHE CLASS Exercises config file-----

##- 11.3 ----- /www/ relative to /usr/local/httpd/htdocs is system /www/ dir.
alias /www/ /www/

##- 12 --- Options FollowSymlinks exercise: -----
# /usr/local/httpd/htdocs/www2 pointing to /www directory
#<Directory /usr/local/httpd/htdocs>
#   options +FollowSymlinks
#</Directory>

##- 12 ---- Options Indexes Exercise -----
#<Directory /usr/local/httpd/htdocs/www2>
#   Options -Indexes
#   order deny,allow
#   deny from all
#   allow from localhost
#</Directory>

##- 12 ---- Options ExecCGI Exercise -----
<Location /www/cgitest>
    Options +ExecCGI
</Location>

##- 12 -----Options Multiviews Exercise -----
#<Directory /www/multi>
#   Options +Multiviews
#</Directory>

##- 13.1 ----- Allow deny Exercise ----With Browser dependance-----
## This <Directory> is to show that it has no effect since the <Location> overrides it after
#<Directory /www/selfhtml>
#   <Files selfhtml.htm>
#       order allow,deny
#       deny from all
#   </Files>
#</Directory>
#<Location /www/selfhtml/selfhtml.htm>
#   order deny,allow
#   allow from all
#</Location>
#BrowserMatch Mozilla Netscape_Browser
#BrowserMatch MSIE MS_Browser
#<Location /www/mozilla-test>
#   order deny,allow
#   deny from all
#   allow from env=Netscape_Browser
#</Location>
#
#<Location /www/msie-test>
#   order deny,allow
#   deny from all
#   allow from env=MS_Browser
#</Location>

##- 13.2 ----- ErrorDocument Exercise -----
#<Location /www/selfhtml>
#   ErrorDocument 404 /www/selfhtml/DocNotFound.html
#</Location>
#<Location /www/selfhtml/log>
#   order allow,deny
#   deny from all
#   ErrorDocument 403 /www/selfhtml/DirNotAllowed.html
#</Location>

```

```

##- 14.3 ----- <Files> exercise -----
#<Directory /usr/local/httpd/htdocs/gif>
#   <Files apache_logo.gif>
#       deny from all
#   </Files>
#</Directory>
#
##- 14.4 ----- <Location> exercise -----
#<Location /gif/apache_logo.gif>
#   order deny,allow
#   allow from all
#</Location>

##- 14.5 ----- <Limit> exercise -----
##-- Exercise 1 -----
#<Location /www/gif/apache*.gif>
#   order allow,deny
#   deny from all
#   <Limit GET>
#       order allow,deny
#       deny from all
#   </Limit>
#</Location>
##-- Exercise 2 -----
#<Location /www/cgitest/test1.cgi>
#   <LimitExcept GET>
#       order allow,deny
#       deny from all
#   </Limit>
#</Location>

##- 15 ----- Indexes Exercise -----
<Location /www>
    order deny,allow
    deny from all
    allow from localhost

#   Options +Indexes
##- 15 ----- AddDescription Exercise -----
#   IndexOptions DescriptionWidth=*
#   AddDescription "<B>Multiviews Test Directory</B>" multi
#   AddDescription "<B>BrowserMatch Mozilla Browser Test Directory</B>" mozilla-test
#   AddDescription "<B>BrowserMatch MSIE Explorer Browser Test Directory</B>" msie-test
#   AddDescription "<B>Samba Help Directory</B>" samba
#   AddDescription "<B>Bash Programming and Reference Directory</B>" bashshell
#   AddDescription "<B>CGI Examples Test Directory</B>" cgitest
#   AddDescription "<B>Deutsche Linux Grundlage Kurs Verzeichnis</B>" linuxkurs
#   AddDescription "<B>Apache Reference Documents</B>" manual
#   AddDescription "<B>Deutsche HTML Kurs Verzeichnis</B>" selfhtml
#   AddDescription "<B>Webalizer Apache Log Files Statistics Program Directory</B>" webalizer
#   AddDescription "<B>Images and Icons Documents</B>" gif
#   AddDescription "<B>Dynamic HTML Web Pages Documents</B>" .php .php3
#
#   AddDescription "<B>MS-Word Documents</B>" .doc
#   AddDescription "<B>WAVE Fromat Sound File</B>" .wav
#   AddDescription "<B>Video Film File</B>" .avi
#   AddDescription "<B>MIDI Sound File</B>" .mid
#   AddDescription "<B>Java Applet File</B>" .class
#
##- 15 -- AddIcon Exercise-----
#   #----- Adding Icons Using Image-manager in 'kpa' series program 'im'
#   AddIcon /www/gif/icons/hand.right.gif      multi
#   AddIcon /www/gif/icons/binhex.gif          mozilla-test
#   AddIcon /www/gif/icons/binhex.gif          msie-test
#   AddIcon /www/gif/icons/world1.gif          samba
#   AddIcon /www/gif/icons/continued.gif      bashshell
#   #AddIcon /www/gif/icons/bomb.gif           cgitest
#   AddIcon /www/gif/icons/comp.blue.gif      linuxkurs
#   AddIcon /www/gif/icons/quill.gif          manual

```

```
# AddIcon /www/gif/icons/generic.gif selfhtml
# AddIcon /www/gif/icons/box1.gif webalizer
# AddIcon /www/gif/icons/burst.gif gif
#
# AddIcon /www/gif/icons/generic.red.gif .html .htm .php .php3 .shtml
##- 15 -- DefaultIcon Exercise -----
# DefaultIcon /www/gif/icons/a.gif
</Location>
```

```
##- 15 ---- HeaderName, ReadmeName, Indexes, IndexIgnore, FancyIndexing
# and IndexOptions Exercise -----
```

```
#<Directory /usr/local/httpd/htdocs/www2/selfhtml>
# HeaderName header.html
# ReadmeName footer.html
# IndexIgnore header.html footer.html ..
# FancyIndexing off
# IndexOptions +FancyIndexing +ScanHTMLTitles +SuppressLastModified
#</Directory>
```

```
##- 16 ---- AllowOverride Exercise -----
```

```
#<Directory /www/multi>
# Options +Multiviews
# DirectoryIndex index.html
# AllowOverride Options Indexes
#</Directory>
```

```
##- 17.3 ---- First Virtual Hosts Exercise -----
```

```
#<VirtualHost 192.168.10.60>
# ServerName manual.linux.local
# ServerAlias manual
# DocumentRoot /www/manual
# <Location />
# order deny,allow
# allow from all
# DirectoryIndex invoking.html
# </Location>
#</VirtualHost>
```

```
##- 17.3 ---- Multiple Virtual Hosts Exercise -----
```

```
Alias /apachehelp/ /www/manual/
NameVirtualHost 192.168.10.60
```

```
#----- bashshell -----
```

```
<VirtualHost 192.168.10.60>
  ServerName bashshell.linux.local
  ServerAlias bashshell
  DocumentRoot /www/bashshell
  <Location />
    order deny,allow
    Options +ExecCGI
    DirectoryIndex bashref.html
  </Location>
  TransferLog /www/bashshell/log/access_log
  ErrorLog /www/bashshell/log/error_log
</VirtualHost>
```

```
#----- linuxkurs -----
```

```
#<VirtualHost 192.168.10.60>
# ServerName linuxkurs.linux.local
# ServerAlias linuxkurs linuxhelp.linux.local
# DocumentRoot /www/linuxkurs
# <Location />
# order deny,allow
# DirectoryIndex dummy
# FancyIndexing off
```

```
#           IndexOptions DescriptionWidth=*
#           IndexOptions +FancyIndexing +ScanHTMLTitles
# </Location>
# <Location /log>
#           order deny,allow
#           deny from all
#           allow from localhost
# </Location>
# TransferLog /www/linuxkurs/log/access_log
# ErrorLog /www/linuxkurs/log/error_log
#</VirtualHost>
```

```

#----- manual -----
<VirtualHost 192.168.10.60>
  ServerName manual.linux.local
  ServerAlias manual.apache.linux.local
  DocumentRoot /www/manual
  <Location />
    order deny,allow
    DirectoryIndex invoking.html
  </Location>
  <Directory /www/manual/images>
    AddDescription "JPEG Format Image" .jpg
    AddDescription "GIF Format Image" .gif
    AddDescription "Unknown Text File" .fig
    HeaderName /images/header.html
    ReadmeName /images/footer.html
    IndexIgnore header.html footer.html
  </Directory>
  <Location /windows.html>
    order allow,deny
    deny from localhost
  </Location>
  TransferLog /www/manual/log/access_log
  ErrorLog /www/manual/log/error_log
</VirtualHost>

#----- selfhtml -----
<VirtualHost 192.168.10.60>
  ServerName selfhtml.linux.local
  ServerAlias selfhtml
  DocumentRoot /www/selfhtml
  <Directory /www/selfhtml>
    order deny,allow
    AllowOverride Indexes Limit
  </Directory>
  TransferLog /www/selfhtml/log/access_log
  ErrorLog /www/selfhtml/log/error_log
</VirtualHost>
##---- The file /www/selfhtml/.htaccess has the following contents ----
##      DirectoryIndex selfhtml.htm
##      <Files xweb.gif>
##          order allow,deny
##          deny from all
##      </Files>
#- 18.5.4 ---- AddHandler Exercise -----
<VirtualHost 192.168.10.60>
  ServerName cgitest2.linux.local
  DocumentRoot /www/cgitest
  <Location />
    order deny,allow
    Options +ExecCGI
    AddHandler cgi-script .mycgi
  </Location>
  TransferLog /www/cgitest/log/access_log
  ErrorLog /www/cgitest/log/error_log
</VirtualHost>
#----- Samba -----different address and Port number -----
listen 192.168.10.80:8000
NameVirtualHost 192.168.10.80:8000
<VirtualHost 192.168.10.80:8000>
  ServerName samba.linux.local
  ServerAlias samba
  DocumentRoot /www/samba
  ErrorDocument 403 /DocNotAllowed.html
  <Location /inx.html>
    order allow,deny

```

```
        deny from all
    </Location>
    TransferLog /www/samba/log/access_log
    ErrorLog /www/samba/log/error_log
</VirtualHost>
```

##- 20.6 ----- Proxy server Exercise -----

```
Listen 192.168.10.60:8080
NameVirtualHost 192.168.10.60:8080
<VirtualHost 192.168.10.60:8080>
    ServerName proxy.linux.local
    ServerAlias proxy*
    ErrorLog /www/proxy/log/error.log
    TransferLog /www/proxy/log/access.log
    DocumentRoot /www/proxy
    <Directory /www/proxy>
        order deny,allow
        allow from all
    </Directory>
    <IfModule mod_proxy.c>
        ProxyRequests On
        <Directory proxy:*>
            Order deny,allow
            Allow from all
        </Directory>
        ProxyVia On
        CacheRoot "/var/cache/httpd"
        CacheSize 50000
        CacheGcInterval 4
        CacheMaxExpire 24
        CacheLastModifiedFactor 0.1
        CacheDefaultExpire 1
        #NoCache a_domain.com another_domain.edu
    </IfModule>
</VirtualHost>
```

##- 23.4 ----- Authentication Exercise -----

```
<VirtualHost 192.168.10.60>
  ServerName linuxkurs.linux.local
  ServerAlias linuxkurs linuxhelp.linux.local
  DocumentRoot /www/linuxkurs
  <Location />
    order deny,allow
    DirectoryIndex dummy
    FancyIndexing off
    IndexOptions DescriptionWidth=*
    IndexOptions +FancyIndexing +ScanHTMLTitles
  </Location>
  <Location /log>
    order deny,allow
    deny from all
    allow from 192.168.10.60
    #----- Authentication part-----
    AuthType Basic
    AuthName Restricted_Area
    AuthUserFile /usr/local/httpd/auth/.okusers
    AuthGroupFile /usr/local/httpd/auth/.okgroups
    require valid-user
    satisfy all
  </Location>
  TransferLog /www/linuxkurs/log/access_log
  ErrorLog /www/linuxkurs/log/error_log
</VirtualHost>
```

##- 24.2 ----- suEXEC Exercise -----

```
<VirtualHost 192.168.10.60>
  ServerName cgitest.linux.local
  DocumentRoot /usr/local/httpd/htdocs/cgitest
  User cgitest
  Group cgitest
  <Directory /usr/local/httpd/htdocs/cgitest>
    order deny,allow
    Options +ExecCGI
    AddHandler cgi-script .cgi
  </Directory>
  TransferLog /usr/local/httpd/htdocs/cgitest/log/access_log

  ErrorLog /usr/local/httpd/htdocs/cgitest/log/error_log

</VirtualHost>
```

```
#----- Forms and Ht://Dig exercise -----
<VirtualHost 192.168.10.60>
  ServerName forms.linux.local
  ServerAlias forms
  DocumentRoot /www/forms
  <Location />
    order deny,allow
    Options +ExecCGI
    AddHandler cgi-script .mycgi
    DirectoryIndex whoareyou.html
  </Location>
  TransferLog /www/forms/log/access_log
  ErrorLog /www/forms/log/error_log
</VirtualHost>
```

```
##----- Help VirtualHost for Search Engine Ht://Dig -----
##----- NOT Included in exercises-----
<VirtualHost 192.168.10.60>
  ServerName htdigv.linux.local
  ServerAlias htdigv
  DocumentRoot /www/htdigv
  <Location />
    order deny,allow
    Options +ExecCGI
    AddHandler cgi-script .cgi
    DirectoryIndex index.html
  </Location>
  TransferLog /www/htdigv/log/access_log
  ErrorLog /www/htdigv/log/error_log
</VirtualHost>
```