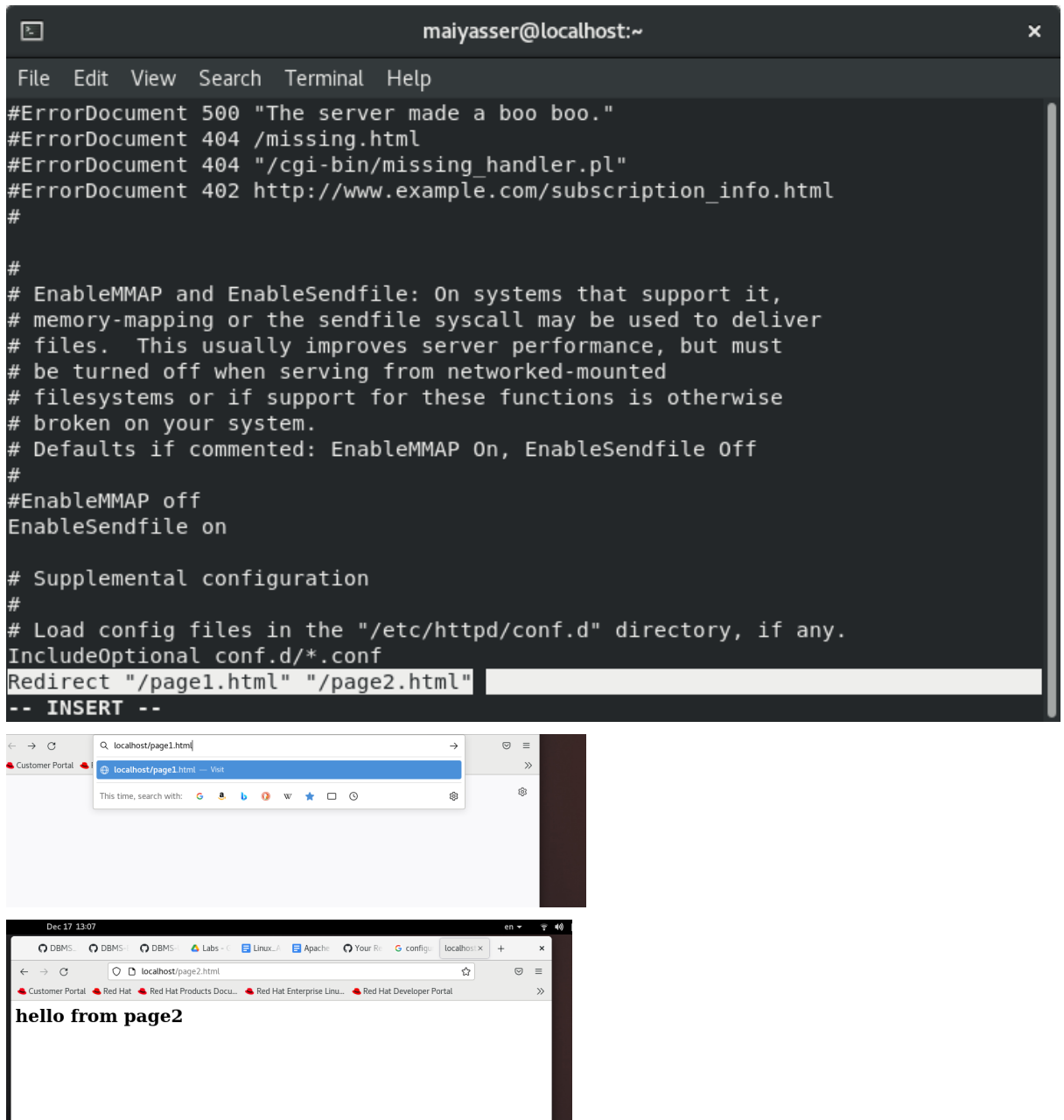- Install Apache HTTP server Create two simple html pages named "page1.html, page2.html" then use the suitable directive to automatically redirect from localhost/page1.html to localhost/page2.html.



```
#ErrorDocument 500 "The server made a boo boo."
#ErrorDocument 404 /missing.html
#ErrorDocument 404 "/cgi-bin/missing_handler.pl"
#ErrorDocument 402 http://www.example.com/subscription_info.html
#

#
# EnableMMAP and EnableSendfile: On systems that support it,
# memory-mapping or the sendfile syscall may be used to deliver
# files.  This usually improves server performance, but must
# be turned off when serving from networked-mounted
# filesystems or if support for these functions is otherwise
# broken on your system.
# Defaults if commented: EnableMMAP On, EnableSendfile Off
#
#EnableMMAP off
EnableSendfile on

# Supplemental configuration
#
# Load config files in the "/etc/httpd/conf.d" directory, if any.
IncludeOptional conf.d/*.conf
Redirect "/page1.html" "/page2.html"
-- INSERT --
```


hello from page2

- Ask for username and password when accessing a directory.


```
     # AllowOverride controls what directives may be placed in .htaccess files.
     # It can be "All", "None", or any combination of the keywords:
     #    Options FileInfo AuthConfig Limit
     #
     AllowOverride None

     #
     # Controls who can get stuff from this server.
     #
     Require all granted
</Directory>

<Directory "/var/www/html/reserved">
AuthType Basic
AuthName "Restricted Content"
AuthUserFile /etc/httpd/.htpasswd
Require valid-user
</Directory>

#
# DirectoryIndex: sets the file that Apache will serve if a directory
# is requested.
#
```
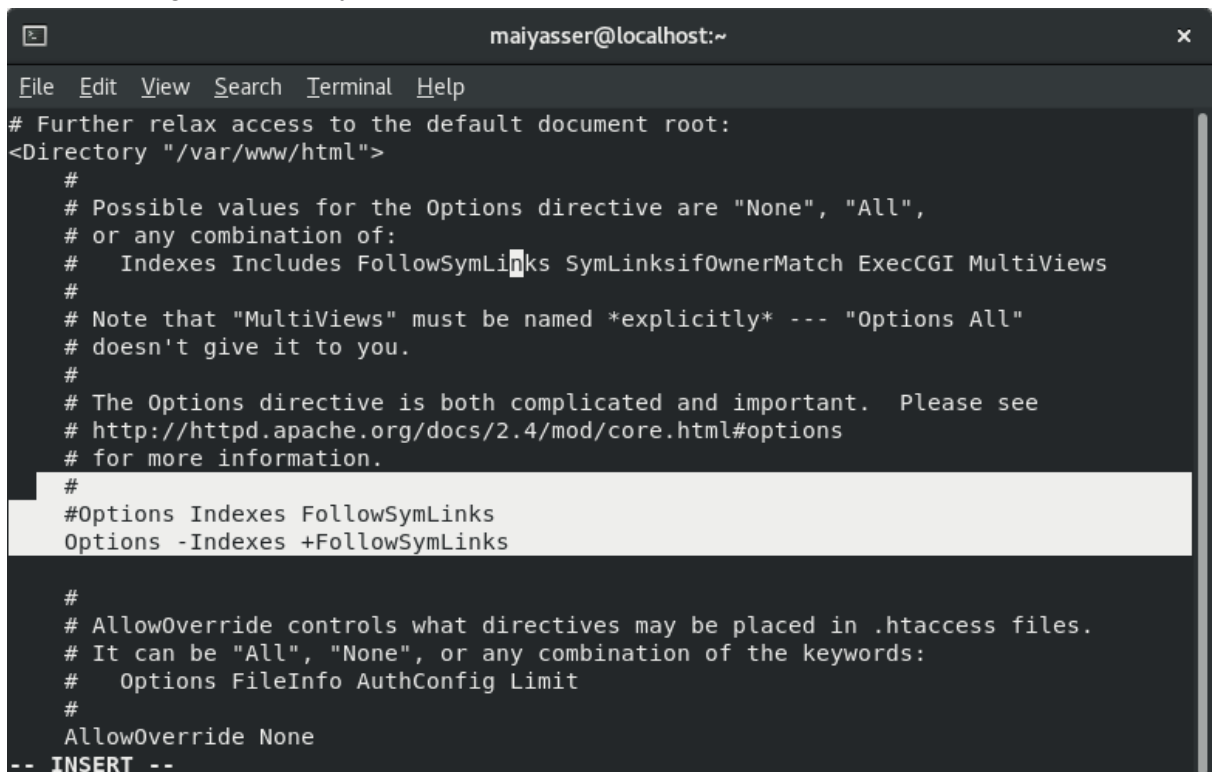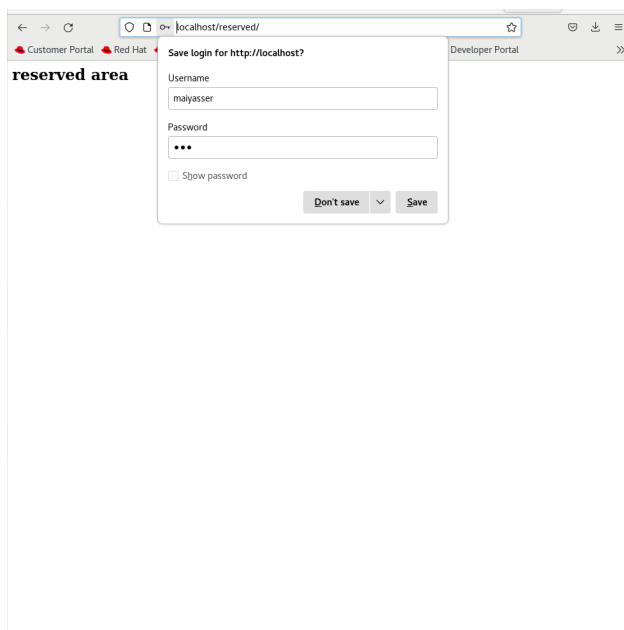
● Create a directory then allow access to one of your classmates only.

```
AllowOverride None

    #
    # Controls who can get stuff from this server.
    #
    Require all granted
</Directory>

<Directory "/var/www/html/reserved">
Order Deny,Allow
Deny from all
Allow from 192.168.1.14
</Directory>

#
# DirectoryIndex: sets the file that Apache will serve if a directory
# is requested.
#
<IfModule dir_module>
    DirectoryIndex default.html
</IfModule>

#
:wq
```
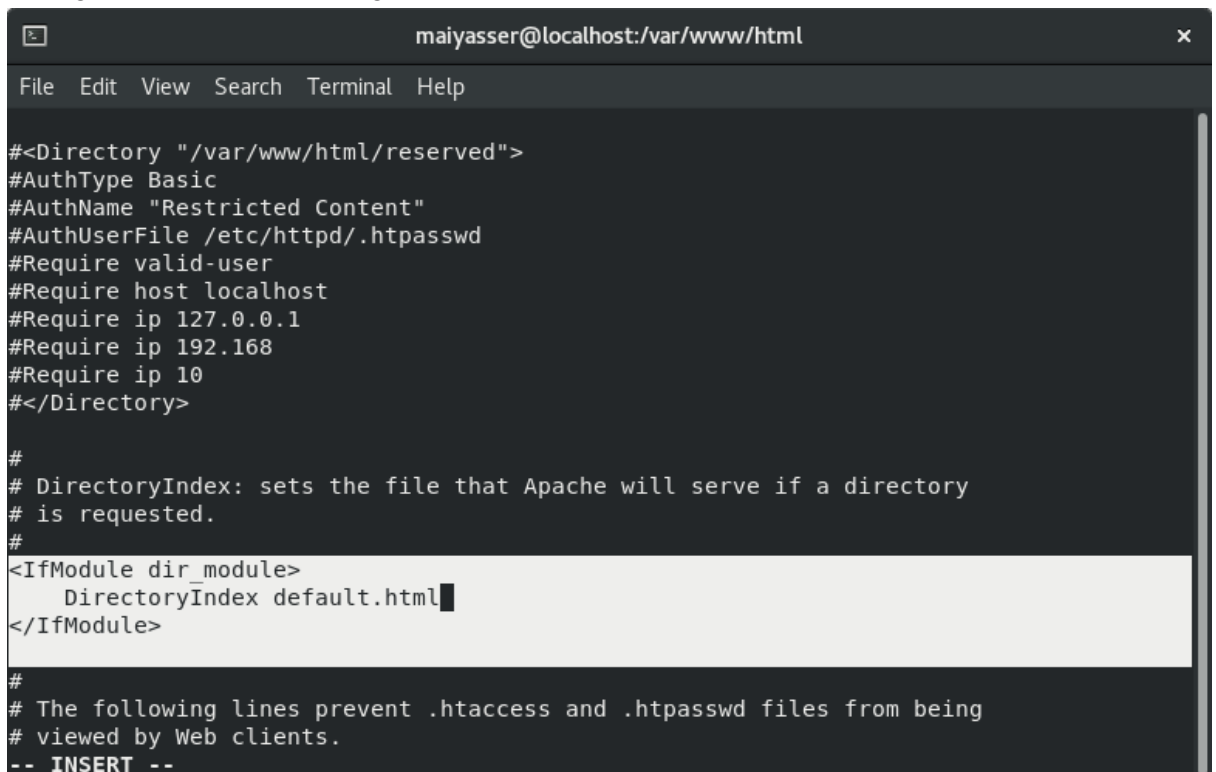
deny_allow
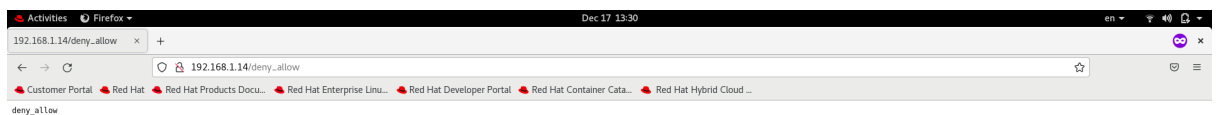
- Disable listing the directory content (hint use indexes)


```
# Further relax access to the default document root:
<Directory "/var/www/html">
    #
    # Possible values for the Options directive are "None", "All",
    # or any combination of:
    #   Indexes Includes FollowSymLinks SymLinksifOwnerMatch ExecCGI MultiViews
    #
    # Note that "MultiViews" must be named *explicitly* --- "Options All"
    # doesn't give it to you.
    #
    # The Options directive is both complicated and important.  Please see
    # http://httpd.apache.org/docs/2.4/mod/core.html#options
    # for more information.
    #
    #Options Indexes FollowSymLinks
    Options -Indexes +FollowSymLinks

    #
    # AllowOverride controls what directives may be placed in .htaccess files.
    # It can be "All", "None", or any combination of the keywords:
    #   Options FileInfo AuthConfig Limit
    #
    AllowOverride None
-- INSERT --
```


Forbidden

You don't have permission to access this resource.
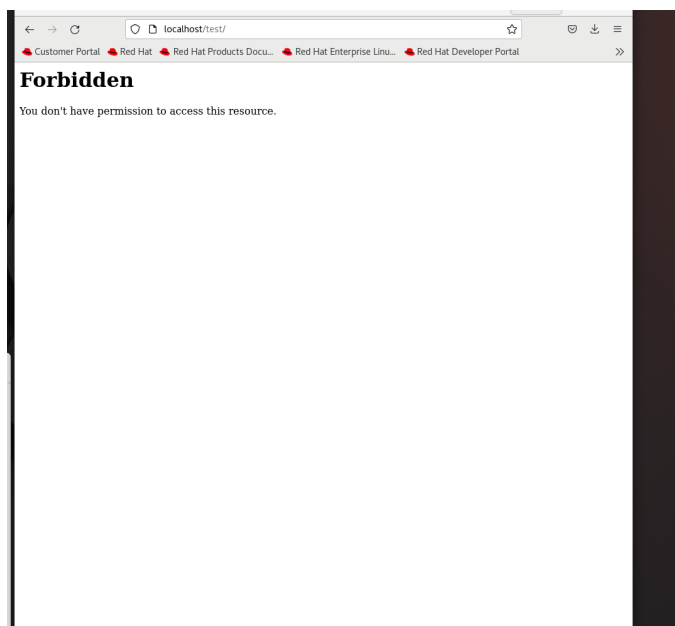
● Change the default index page to be default.html instead of index.html


```
#<Directory "/var/www/html/reserved">
#AuthType Basic
#AuthName "Restricted Content"
#AuthUserFile /etc/httpd/.htpasswd
#Require valid-user
#Require host localhost
#Require ip 127.0.0.1
#Require ip 192.168
#Require ip 10
#</Directory>

#
# DirectoryIndex: sets the file that Apache will serve if a directory
# is requested.
#
<IfModule dir_module>
    DirectoryIndex default.html
</IfModule>

#
# The following lines prevent .htaccess and .htpasswd files from being
# viewed by Web clients.
-- INSERT --
```

hello from default.html!