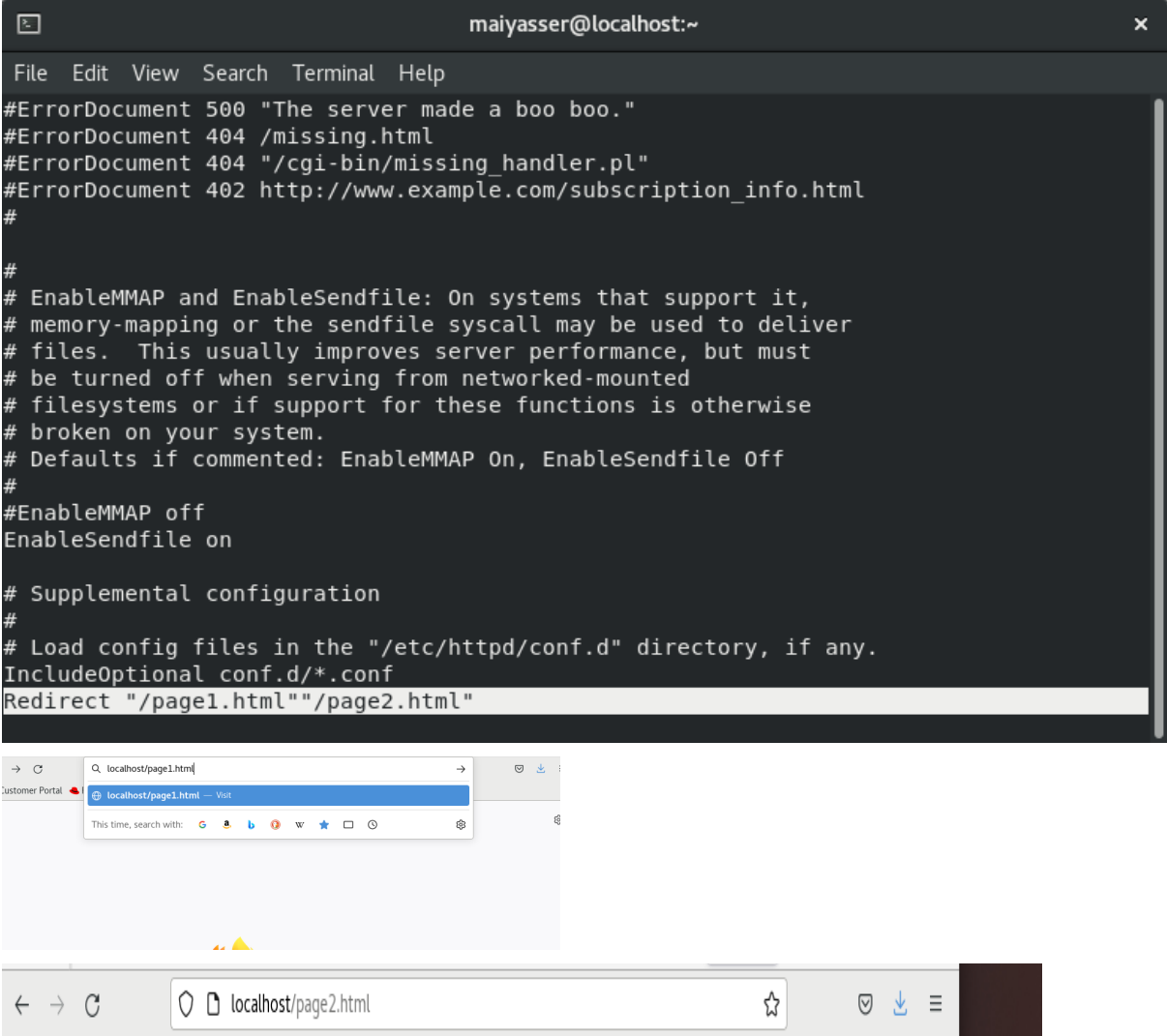


- Install Apache HTTP server Create two simple html pages named “page1.html, page2.html” then use the suitable directive to automatically redirect from localhost/page1.html to localhost/page2.html.



The image shows a terminal window and a web browser. The terminal window, titled 'maiyasser@localhost:~', displays the configuration of the httpd.conf file. The configuration includes error documents, MMAP and Sendfile settings, and a supplemental configuration section. The final line of the configuration is 'Redirect "/page1.html"/page2.html"', which is highlighted in a light blue bar. Below the terminal window, a web browser window is shown. The address bar displays 'localhost/page1.html'. The browser's search bar shows 'localhost/page1.html' and 'Visit'. The browser's address bar also shows 'localhost/page2.html'.

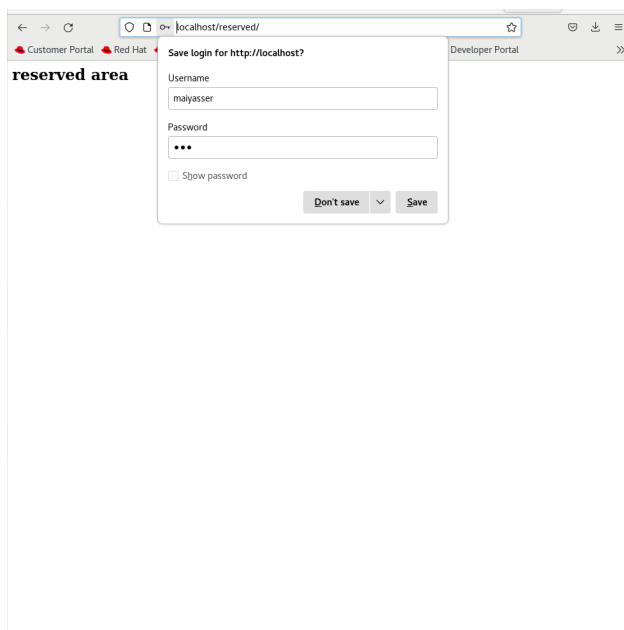
```
maiyasser@localhost:~  
File Edit View Search Terminal Help  
#ErrorDocument 500 "The server made a boo boo."  
#ErrorDocument 404 /missing.html  
#ErrorDocument 404 "/cgi-bin/missing_handler.pl"  
#ErrorDocument 402 http://www.example.com/subscription_info.html  
#  
#  
# EnableMMAP and EnableSendfile: 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"
```

localhost/page1.html

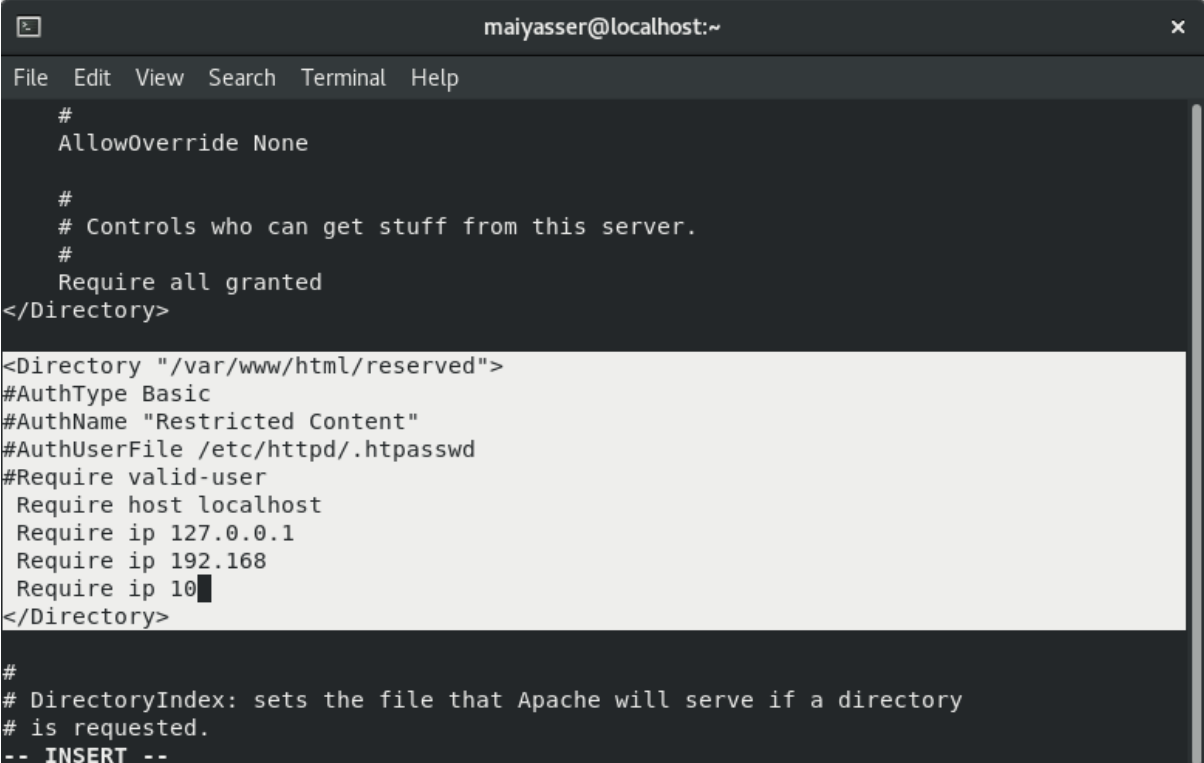
localhost/page2.html

- Ask for username and password when accessing a directory.

```
maiyasser@localhost:~  
File Edit View Search Terminal Help  
# 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.



The screenshot shows a terminal window titled 'maiyasser@localhost:~'. The terminal displays the configuration for the `<Directory>` directive in an Apache configuration file. The configuration includes a `<Directory "/var/www/html/reserved">` block with the following settings:

```
#
AllowOverride None

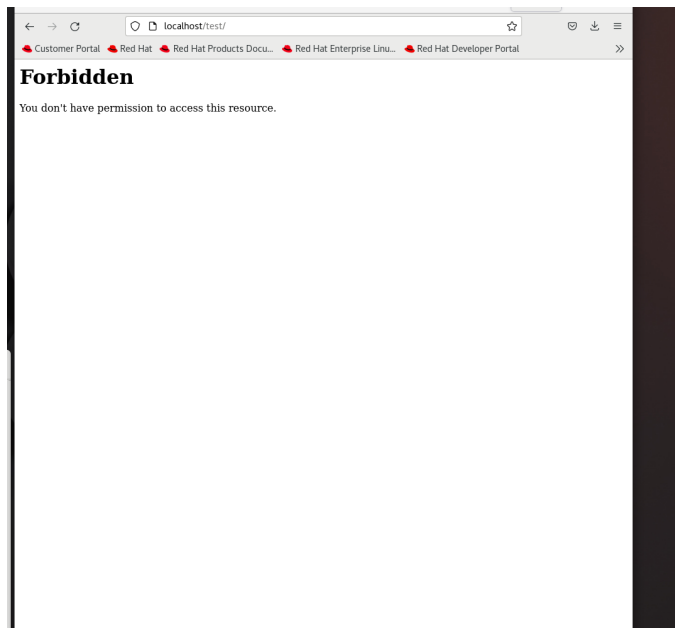
#
# Controls who can get stuff from this server.
#
Require all granted
</Directory>

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

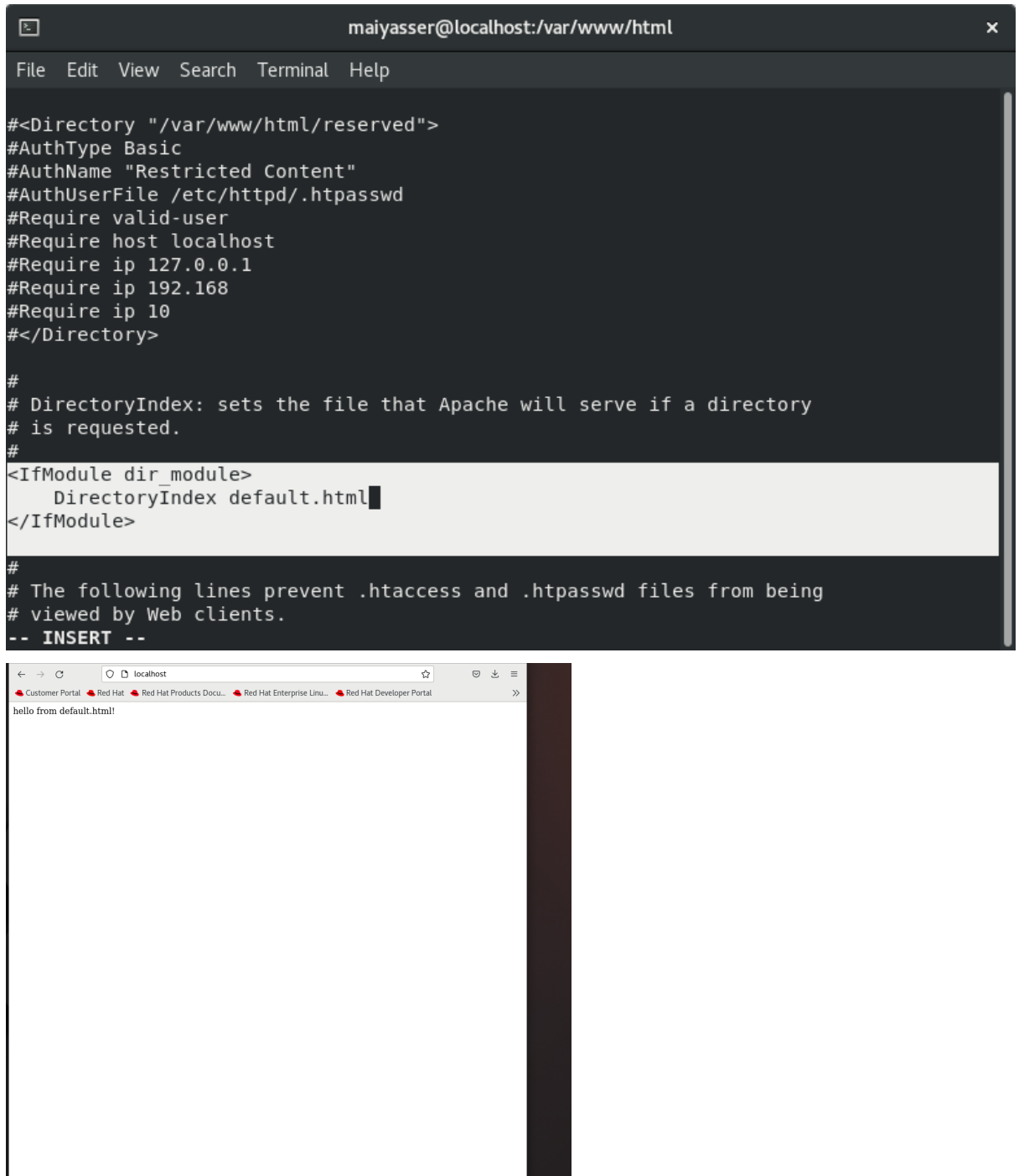
#
# DirectoryIndex: sets the file that Apache will serve if a directory
# is requested.
-- INSERT --
```

- Disable listing the directory content (hint use indexes)

```
maiyasser@localhost:~  
File Edit View Search Terminal Help  
# 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 --
```



- Change the default index page to be default.html instead of index.html



The image shows a terminal window and a web browser window. The terminal window, titled 'maiyaasser@localhost:/var/www/html', displays the contents of the httpd.conf file. The relevant section for the DirectoryIndex is highlighted, showing the change from 'index.html' to 'default.html'. The web browser window, titled 'localhost', shows the result of this change: a simple page with the text 'hello from default.html!'.

```
maiyaasser@localhost:/var/www/html
File Edit View Search Terminal Help

#<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 --
```

localhost
Customer Portal Red Hat Red Hat Products Docu... Red Hat Enterprise Linu... Red Hat Developer Portal
hello from default.html!