



Exercise 8.4: Enable includes under the URI `/magic/index.html`

Include the two files `foo.html` and `bar.html` that are located in the `DOCUMENTROOT/includes` directory. Ensure that files with the extension `.html` are processing includes, but only when needed.

Solution 8.4

1. Create the following html file for the `/magic/` URI:

```
<html>
<head>
  <title>This file is a magic include file</title>
</head>
<body>
  <h1>This file is a magic include file</h1>
  <h2>Foo include below</h2>
  <!--#include virtual="/includes/foo.html" -->
  <h2>Bar include below</h2>
  <!--#include virtual="/includes/bar.html" -->
</body>
</html>
```

- On **CentOS** use the file:

```
/var/www/html/magic/index.html
```

- On **OpenSUSE** use the file:

```
/srv/www/htdocs/magic/index.html
```

- On **Ubuntu** use the file:

```
/var/www/html/magic/index.html
```

2. Create the two files to be included in the main page using the content and locations suggested below.

```
this is the foo include
```

- On **CentOS** use the file:

```
/var/www/html/includes/foo.html
```

- On **OpenSUSE** use the file:

```
/srv/www/htdocs/includes/foo.html
```

- On **Ubuntu** use the file:

```
/var/www/html/magic/includes/foo.html
```

```
this is the bar include
```

- On **CentOS** use the file:

```
/var/www/html/includes/bar.html
```

- On **OpenSUSE** use the file:

`/srv/www/htdocs/includes/bar.html`

- On **Ubuntu** use the file:

`/var/www/html/magic/includes/bar.html`

3. Create a configuration **include** file in the suggested location listed below which enables **includes**.

```
<Location /magic/>
Options +Includes
XBitHack on
</Location>
```

- On **CentOS** use the file:

`/etc/httpd/conf.d/magic.conf`

- On **Ubuntu** use the file:

`/etc/apache2/sites-enabled/magic.conf`

- On **OpenSUSE** use the file:

`/etc/apache2/conf.d/magic.conf`

4. If required, enable the **include** module:

- On **Ubuntu**:

```
# ln -s /etc/apache2/mods-available/include.load /etc/apache2/mods-enabled/
```

Ensure that your `magic/index.html` file is executable.

5. Restart **Apache** and test your new URI.

`http://localhost/magic/index.html`