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[Apache Virtual Hosting Guide](#)

Hosting several websites on the same IP address.

Virtual Hosts refers to Apache's ability to host several websites on the same machine and even on the same IP address. For instance, let's say that you have a small website, [www.yourdomain.com](#), which also provides free email accounts to your visitors. Of course, you will also have to set up a webmail so your visitors can actually use the email address created on your site. You could very easily set up the webmail to be accessible from the address [www.yourdomain.com/webmail](#), but for both aesthetic and practical reasons, the webmail service could be found at [webmail.yourdomain.com](#). Moreover, you can set up as many virtual hosts as you want, on a single IP address.- The virtual hosts can be defined and configured in Apache's config file. This config file can be found in Fedora Core by default in `/etc/httpd/conf/httpd.conf` but the location of this file may vary on other distributions.- Once found, open it with your favorite text editor and search for the *NameVirtualHost*. Make sure it looks like this (and it's not commented out):

```
[CODE=0]NameVirtualHost *:80
```



```
[CODE=1]NOTE: The following example will require you to have the main website located in /var/www/html and the new webmail will be installed in /var/www/webmail. If your locations vary, change the example accordingly, before adding them to httpd.conf.- To get it up and running quickly, add these lines at the end of httpd.conf:[CODE=0] ServerName www.yourdomain.com DocumentRoot /var/www/html/ ServerName webmail.yourdomain.com DocumentRoot /var/www/webmail
```



```
[CODE=1]- If you want more advanced virtual host configuration, you can use any of the following directives:Logging- By default, Apache will record messages to access_log and error_log files located in /var/log/httpd. However, if you want each virtual host to have its own separate logs, add these directives to the virtual host block:[CODE=0]ErrorLog /var/log/httpd/website1-error_log commonCustomLog /var/log/httpd/website2-access_log common
```



```
[CODE=1]- For example, if you want your webmail site to record messages to files webmail-access_log and webmail-error_log, then your vhost block for webmail site will look like this:[CODE=0] ServerName webmail.yourdomain.com DocumentRoot /var/www/webmail ErrorLog /var/log/httpd/webmail-error_log common CustomLog /var/log/httpd/webmail-access_log common
```



```
[CODE=1]Error Pages- You can set Apache to serve a custom page when a visitor gets a 404 (not found) or 500 (internal server error) or any other error code, for that matter. For instance, you can redirect a visitor which received a 404 error to the main index file, or to a 404 file you created. For this, you'll have to add the following directives to the virtual host block, just like in the above example:[CODE=0]ErrorDocument 404 /index.htmErrorDocument 500 /index.htm
```



```
[CODE=1]NOTE: The error page could be anything; but remember: the location starts with the directory set in DocumentRoot in httpd.conf. For instance, if your DocumentRoot is /var/www/html and the error page is in /var/www/html/messages/404.htm, then you'll have to append /messages/404.htm to the ErrorDocument directive.
```



```
Server Aliases- If you want to use your virtual host for more than one domain name, you can put ServerAlias directive inside the virtual host block in order to link the two domains together:[CODE=0]ServerAlias youdomain.com yourseconddomain.com
```



```
[CODE=1]Further directives can be found on Apache's documentation page. Don't be afraid to experiment with httpd.conf, but always remember to back it up first before any reconfiguration.
```