

104.2.8
“no matter where you are, everyone is always connected”

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Apache2 Configuration

What is Apache?

Apache is an HTTP server. It hosts websites and allows people to connect to them over HTTP.

Apache is one of the most common HTTP servers and ubiquitous in hosting websites on the Internet. Proper configuration is a must.

Apache Modules

 in terminal

```
# a2enmod reqtimeout  
# a2enmod headers  
# a2enmod security2
```

Make sure the proper Apache2 modules are even enabled by using the *a2enmod* command.

Apache Config

📄 in file `/etc/apache2/conf-enabled/security.conf`

```
ServerTokens Prod
ServerSignature Off
TraceEnable Off
Header unset ETag
FileETag none
```

In this file, we will change configuration to send as little information as we can in Server headers. We will also turn off the signature.

We will also disable any TRACE (loopback test) http requests and unset ETag headers which are used for caching.

Apache Config

📄 in file `/etc/apache2/mods-available/ssl.conf`

```
SSLProtocol -SSLv2 -SSLv3  
SSLProtocol +TLSv1.2 +TLSv1.3
```

We will **enable**
Transport Layer
Security or TLS.

We will **disable** SSL
as it is less secure
and more vulnerable.

Apache Config

📄 in file */etc/apache2/apache.conf*

```
PidFile ${APACHE_PID_FILE}
```

```
KeepAlive Off
```

```
KeepAliveTimeout 5
```

```
User ${APACHE_RUN_USER}
```

```
Group ${APACHE_RUN_GROUP}
```

```
HostnameLookups Off
```

```
LogLevel warn
```

Now the meat. Yum.
This is the global
configuration.

Apache Config

📄 in file `/etc/apache2/apache.conf`

```
<Directory />  
    Options None  
    Order deny,allow  
    Deny from all  
    Require all denied  
    AllowOverride None  
</Directory>
```

We will also look at the directory-specific configurations.

Take a special note of the root configuration.

Apache Config

📄 in file */etc/apache2/apache.conf*

```
<Directory /usr/share>
```

```
    Require all granted
```

```
    AllowOverride None
```

```
</Directory>
```

```
<Directory /var/www>
```

```
    Options -FollowSymLinks -Includes
```

```
-ExecCGI -Indexes
```

```
    AllowOverride None
```

```
    Require all granted
```

```
</Directory>
```


Environmental Care

📄 in file `/etc/apache2/envvars`

```
export APACHE_RUN_USER=www-data  
export APACHE_RUN_GROUP=www-data
```

We need to make sure Apache is running as the correct user. This is set in the envvars file (environment variables).

The proper user for Apache is *www-data*.

Remember to Restart

 in terminal

```
# apachectl configtest  
# apachectl restart
```

Test your
configuration and
restart.

Spare Commands

 in terminal

```
# a2ensite /etc/apache2/sites-  
available/site1.conf
```

```
# a2dissite /etc/apache2/sites-  
available/site1.conf
```

These commands allow you to enable and disable the sites defined in the sites-available directory.

These create symbolic links in the sites-enabled directory to indicate that the site is online