

# Apache 2.4

## Security

### Modules

Install the following modules and configure settings in `/etc/apache2/mods-available/*.conf`:

- `mod-evasive`
- `mod-qos`
- `mod-reqtimeout`
- `modsecurity`

### Links

- [Defending Against Apache Web Server DDoS Attacks](#)
- [mod\\_evasive on Apache](#)
- [How To Mitigate Slow HTTP DoS Attacks in Apache HTTP Server](#)
- [How To Set Up mod\\_security with Apache on Debian/Ubuntu](#)
- [Stop Traffic From China IP Addresses](#)
- [IP Location Finder](#)
- [DoS](#)
- [Using Multiple SSL Certificates in Apache with One IP Address](#)

## Upgrade Apache 2.2 to 2.4

### Config files

1. All config files in `/etc/apache2/sites-available`, `sites-enabled`, `conf-available`, and `conf-enabled` need to have extension `.conf`
2. Folder `conf.d` is deprecated, use `conf-enabled` instead
3. Place a config file in `conf-available` with the directory path to your document root where you keep your own sites, if you do not keep them in the standard path `/var/www`. Replace `order allow,deny` statements with `Require` statements in all your `VirtualHost` definitions:

```
<Directory /path/to/www/>
  Options Indexes FollowSymLinks
  AllowOverride None
  Require all granted
</Directory>
```

4. Don't forget to modify `phpmyadmin.conf` in `conf-available`

## Links

- [Upgrading to 2.4 from 2.2](#)

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