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How To Manage Apache Resources Limits With mod_slotlimit (Debian Etch)

mod_slotlimit is an Apache module that using dynamic slot allocation algorithm and static rules, can manage resources used for each running site.

1. Installation

In order to compile mod_slotlimit, you will need to have apxs2 (APache eXtension tool) installed and configured with Apache.

The follow command will install it:

```
apt-get install apache2-prefork-dev
```

Now we download the source package present at http://sourceforge.net/projects/mod-slotlimit/ or download it using wget application and this direct link to the repository:

```
wget http://kent.dl.sourceforge.net/sourceforge/mod-slotlimit/mod_slotlimit.tar.gz
```

Next open archive, compile and install module with those commands:

```
tar zxvf mod_slotlimit.tar.gz

cd mod_slotlimit-1.0

make

make install
```

Add in the main config file of your web server the following command in order to load mod_slotlimit module.

```
vi /etc/apache2/httpd.conf
```

```
[...]
LoadModule slotlimit_module   /usr/lib/apache2/modules/mod_slotlimit.so
```

2. Configuration

Before we are able to write our configuration, we should known what directives are supported by this module.

For more information read mod_slotlimit's documentation:*AvailableSlotsPercent - Percentage of apache slots available in order to activate dynamic slot allocation algorithm*
MaxConnectionsPerSite - Max connections for each running site
LimitSite - Specific site to limit
LimitSiteConnections - Max connections for "LimitSite"
ClientIpLimit - Number of maximum simultaneous connection per IP
ForceVhostName - Force vhost hostname in scoreboard. Useful when vhost hostname do not match site visited, for example if you're using mod_vhost_alias

Now we open config file of our web server in order to write the configuration:

```
vi /etc/apache2/apache2.conf
```

```
[...]
<IfModule mod_slotlimit.c>
AvailableSlotsPercent 15
```

```
MaxConnectionsPerSite 30
LimitSite www.BadSite.xxx
LimitSiteConnections 15
ClientIpLimit 15
ForceVhostName On
</IfModule>
[...]
```

Finally we restart Apache:

```
/etc/init.d/apache2 restart
```

3. Links

- mod_slotlimit: **http://sourceforge.net/projects/mod-slotlimit/**
- Apache: **http://httpd.apache.org**
- Debian: **http://www.debian.org**

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